

**IT engagement as a blessing and a curse? Examining its antecedents and outcomes in organizations.** / Pirkkalainen, Henri; Salo, Markus; Makkonen, Markus.

julkaisussa: International Journal of Information Management, Vuosikerta 53, 102130, 01.08.2020.

Tutkimustuotos > > vertaisarvioitu

**Wake-up Radio-Based 5G Mobile Access : Methods, Benefits, and Challenges.** / Rostami, Soheil; Kela, Petteri; Leppanen, Kari; Valkama, Mikko.

julkaisussa: IEEE Communications Magazine, Vuosikerta 58, Nro 7, 01.07.2020, s. 14-20.

Tutkimustuotos > > vertaisarvioitu

**Comparison of hevc-based omaf-compliant 6k effective packings for viewport-dependent 360-degree video streaming.** / Homayouni, Maryam; Zare, Alireza; Aminlou, Alireza; Hannuksela, Miska M.; Gabbouj, Moncef.

Proceedings of the 2020 Packet Video Workshop, PV 2020 - Part of MMSys 2020. ACM, 2020. s. 15-20 (Proceedings of the 2020 Packet Video Workshop, PV 2020 - Part of MMSys 2020).

Tutkimustuotos > > vertaisarvioitu

**Analog Mitigation of Frequency-Modulated Interference for Improved GNSS Reception.** / Parlin, Karel; Riihonen, Taneli.

2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings. toim. / Jari Nurmi; Elena-Simona Lohan; Joaquin Torres-Sospedra; Heidi Kuusniemi; Aleksandr Ometov. IEEE, 2020. (2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings).

Tutkimustuotos > > vertaisarvioitu

**Communication Performance of a Real-Life Wide-Area Low-Power Network Based on Sigfox Technology.** / Mikhaylov,

Konstantin; Stusek, Martin; Masek, Pavel; Fujdiak, Radek; Mozny, Radek; Andreev, Sergey; Hosek, Jiri.

2020 IEEE International Conference on Communications, ICC 2020 - Proceedings. IEEE, 2020. (IEEE International Conference on Communications; Vuosikerta 2020-June).

Tutkimustuotos > > vertaisarvioitu

**Joint OFDM Waveform Design for Communications and Sensing Convergence.** / Liyanaarachchi, Sahan Damith; Barneto, Carlos Baquero; Riihonen, Taneli; Valkama, Mikko.

2020 IEEE International Conference on Communications, ICC 2020 - Proceedings. IEEE, 2020. (IEEE International Conference on Communications; Vuosikerta 2020-June).

Tutkimustuotos > > vertaisarvioitu

**Modeling and Mitigating 5G Wireless Downlink Interferences for Low-altitude Aerial vehicles.** / Wang, Wenbo; Fath, Thilo;

Valkama, Mikko; Lohan, Elena Simona.

2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings. toim. / Jari Nurmi; Elena-Simona Lohan; Joaquin Torres-Sospedra; Heidi Kuusniemi; Aleksandr Ometov. IEEE, 2020. (2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings).

Tutkimustuotos > > vertaisarvioitu

**Multibeam Design for Joint Communication and Sensing in 5G New Radio Networks.** / Barneto, Carlos Baquero;

Liyanaarachchi, Sahan Damith; Riihonen, Taneli; Anttila, Lauri; Valkama, Mikko.

2020 IEEE International Conference on Communications, ICC 2020 - Proceedings. IEEE, 2020. (IEEE International Conference on Communications; Vuosikerta 2020-June).

Tutkimustuotos > > vertaisarvioitu

**Positioning Based on Noise-Limited Censored Path Loss Data.** / Karttunen, Aki; Valkama, Mikko; Talvitie, Jukka.

2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings. toim. / Jari Nurmi; Elena-Simona Lohan; Joaquin Torres-Sospedra; Heidi Kuusniemi; Aleksandr Ometov. IEEE, 2020. (2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings).

Tutkimustuotos > > vertaisarvioitu

**Proactive Wake-up Scheduler based on Recurrent Neural Networks.** / Rostami, Soheil; Trinh, Hoang Duy; Lagen, Sandraslagen; Costa, Mario; Valkama, Mikko; Dini, Paolo.

2020 IEEE International Conference on Communications, ICC 2020 - Proceedings. IEEE, 2020. (IEEE International Conference on Communications; Vuosikerta 2020-June).

Tutkimustuotos > > vertaisarvioitu

**Radio-based Sensing and Indoor Mapping with Millimeter-Wave 5G NR Signals.** / Barneto, Carlos Baquero; Riihonen, Taneli; Turunen, Matias; Koivisto, Mike; Talvitie, Jukka; Valkama, Mikko.

2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings. toim. / Jari Nurmi; Elena-Simona Lohan; Joaquin Torres-Sospedra; Heidi Kuusniemi; Aleksandr Ometov. IEEE, 2020. (2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings).

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**5G new radio evolution towards sub-THz communications.** / Tervo, Oskari; Levanen, Toni; Pajukoski, Kari; Hulkkonen, Jari; Wainio, Pekka; Valkama, Mikko.

2nd 6G Wireless Summit 2020: Gain Edge for the 6G Era, 6G SUMMIT 2020. IEEE, 2020.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Circularly Polarized Corner-Truncated and Slotted Microstrip Patch Antenna on Textile Substrate for Wearable Passive UHF RFID Tags.** / Le, Duc; Ukkonen, Leena; Björninen, Toni.

14th European Conference on Antennas and Propagation, EuCAP 2020. IEEE, 2020. (14th European Conference on Antennas and Propagation, EuCAP 2020).

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Headband Antenna for Wireless Power Transfer to Millimeter-Sized Neural Implants with Minimal Misalignment Effects.** / Ahmed, Shahbaz; Sydänheimo, Lauri; Ukkonen, Leena; Björninen, Toni.

14th European Conference on Antennas and Propagation, EuCAP 2020. IEEE, 2020. (14th European Conference on Antennas and Propagation, EuCAP 2020).

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Measurements of Reflection and Penetration Losses in Low Terahertz Band Vehicular Communications.** / Petrov, Vitaly; Eckhardt, Johannes M.; Moltchanov, Dmitri; Koucheryavy, Yevgeni; Kurner, Thomas.

14th European Conference on Antennas and Propagation, EuCAP 2020. Institute of Electrical and Electronics Engineers Inc., 2020. (14th European Conference on Antennas and Propagation, EuCAP 2020).

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Protective Coating Methods for Glove-Integrated RFID Tags - A Preliminary Study.** / Khan, Zahangir; He, Han; Chen, Xiaochen; Ukkonen, Leena; Virkki, Johanna.

14th European Conference on Antennas and Propagation, EuCAP 2020. IEEE, 2020. 9135632 (14th European Conference on Antennas and Propagation, EuCAP 2020).

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Towards Asteroid Tomography : Modellings and Measurements Using an Analogue Model.** / Eyraud, C.; Sorsa, L. I.; Herique, A.; Geffrin, J. M.; Pursiainen, S.; Kofman, W.

14th European Conference on Antennas and Propagation, EuCAP 2020. IEEE, 2020. (14th European Conference on Antennas and Propagation, EuCAP 2020).

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**A custom processor for protocol-independent packet parsing.** / Zolfaghari, Hesam; Rossi, Davide; Nurmi, Jari.

julkaisussa: Microprocessors and Microsystems, Vuosikerta 72, 01.02.2020.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Are SonarQube Rules Inducing Bugs?** / Lenarduzzi, Valentina; Lomio, Francesco; Huttunen, Heikki; Taibi, Davide.

SANER 2020 - Proceedings of the 2020 IEEE 27th International Conference on Software Analysis, Evolution, and Reengineering. toim. / Kostas Kontogiannis; Foutse Khomh; Alexander Chatzigeorgiou; Marios-Eleftherios Fokaefs; Minghui Zhou. IEEE, 2020. s. 501-511.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**A preliminary network analysis on steam game tags : Another way of understanding game genres.** / Li, Xiaozhou; Zhang, Boyang.

AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 29-30, 2020, Tampere, Finland. ACM, 2020. s. 65-73.

Tutkimustuotos >> vertaisarvioitu

**Color game : A collaborative social robotic game for icebreaking; Towards the design of robotic ambiances as part of smart building services.** / Beheshtian, Nasim; Kaipainen, Kirsikka; Kähkönen, Kalle; Ahtinen, Aino.

AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere. ACM, 2020. s. 10-19.

Tutkimustuotos >> vertaisarvioitu

**Demographic differences in accumulated types of capital in massively multiplayer online role-playing games.** / Korkeila, Henry; Koivisto, Jonna; Hamari, Juho.

AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere. ACM, 2020. s. 74-82.

Tutkimustuotos >> vertaisarvioitu

**Innovation challenges as a novel multidisciplinary learning platform.** / Jokiniemi, Sini; Myllärniemi, Jussi; Poranen, Timo; Vuorenmaa, Marika.

AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere. ACM, 2020. s. 145-148.

Tutkimustuotos >> vertaisarvioitu

**Satisfaction and willingness to consume immersive journalism : Experiment of differences between VR, 360 video, and article.** / Bujic, Mila; Hamari, Juho.

AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere. ACM, 2020. s. 120-125.

Tutkimustuotos >> vertaisarvioitu

**Social human-robot interaction in the wild : A workshop proposal for academic mindtrek 2020.** / Niemelä, Marketta; Ahtinen, Aino; Turunen, Markku.

AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere. ACM, 2020. s. 168-169.

Tutkimustuotos >

**"The superhero of the university" : Experience-driven design and field study of the university guidance robot.** /

Chowdhury, Aparajita; Ahtinen, Aino; Kaipainen, Kirsikka.

AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere. ACM, 2020. s. 1-9.

Tutkimustuotos >> vertaisarvioitu

**Adoption of requirements engineering methods in game development : A literature and postmortem analysis.** / Lehtonen, Miikka; Lu, Chien; Nummenmaa, Timo; Peltonen, Jaakko.

Interactivity, Game Creation, Design, Learning, and Innovation: 8th EAI International Conference, ArtsIT 2019, and 4th EAI International Conference, DLI 2019, Proceedings. toim. / Anthony Brooks; Eva Irene Brooks. Springer, 2020. s. 436-457 (Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST; Vuosikerta 328 LNICST).

Tutkimustuotos >> vertaisarvioitu

**Aerial Access and Backhaul in mmWave B5G Systems: Performance Dynamics and Optimization.** / Tafintsev, Nikita; Moltchanov, Dmitri; Gerasimenko, Mikhail; Gapeyenko, Margarita; Zhu, Jing; Yeh, Shu-ping; Himayat, Nageen; Andreev, Sergey; Koucheryavy, Yevgeni; Valkama, Mikko.

julkaisussa: IEEE Communications Magazine, Vuosikerta 58, Nro 2, 2020, s. 93-99.

Tutkimustuotos >> vertaisarvioitu

**Comparing capacity gains of static and UAV-based millimeter-wave relays in clustered deployments.** / Gapeyenko, Margarita; Petrov, Vitaly; Moltchanov, Dmitri; Yeh, Shu Ping; Himayat, Nageen; Andreev, Sergey.

2020 IEEE International Conference on Communications Workshops, ICC Workshops 2020 - Proceedings. IEEE, 2020. (IEEE/CIC international conference on communications in China - workshops).

Tutkimustuotos >> vertaisarvioitu

**Constrained PSK : Energy-efficient modulation for Sub-THz systems.** / Nasarre, Ismael Peruga; Levanen, Toni; Valkama, Mikko.

2020 IEEE International Conference on Communications Workshops, ICC Workshops 2020 - Proceedings. IEEE, 2020. (IEEE/CIC international conference on communications in China - workshops).

Tutkimustuotos >> vertaisarvioitu

**Distributed small loads as fast frequency reserves : Impact on system performance.** / Peltonen, Lasse; Järventausta, Pertti; Repo, Sami; Rauhala, Tuomas.

2020 IEEE Texas Power and Energy Conference, TPEC 2020. IEEE, 2020. s. 114-119.

Tutkimustuotos >> vertaisarvioitu

**Energy Efficiency Analysis of Collaborative Compressive Sensing Scheme in Cognitive Radio Networks.** / Kishore, Rajalekshmi; Gurugopinath, Sanjeev; Muhaidat, Sami; Sofotasios, Paschalis C.; Dianati, Mehrdad; Al-Dhahir, Naofal. julkaisussa: IEEE Transactions on Cognitive Communications and Networking , Vuosikerta 6, Nro 3, 2020, s. 1056-1068.

Tutkimustuotos >> vertaisarvioitu

**How the Cathedral Embraced the Bazaar, and the Bazaar Became a Cathedral.** / Kilamo, Terhi; Lenarduzzi, Valentina; Ahoniemi, Tuukka; Jaaksi, Ari; Rahikkala, Jurka; Mikkonen, Tommi.

Open Source Systems - 16th IFIP WG 2.13 International Conference, OSS 2020, Proceedings. toim. / Vladimir Ivanov; Artem Kruglov; Sergey Masyagin; Alberto Sillitti; Giancarlo Succi. Springer, 2020. s. 141-147 (IFIP Advances in Information and Communication Technology; Vuosikerta 582 IFIP).

Tutkimustuotos >> vertaisarvioitu

**Internet of Things and Sensor Networks.** / Andreev, Sergey; Dobre, Ciprian; Misra, Prasant.

julkaisussa: IEEE Communications Magazine, Vuosikerta 58, Nro 2, 2020, s. 34-34.

Tutkimustuotos >

**IoT-CryptoDiet : Implementing a lightweight cryptographic library based on ecdh and ecdsa for the development of secure and privacy-preserving protocols in contiki-ng.** / Frimpong, Eugene; Michalas, Antonis.

IoT BDS 2020 - Proceedings of the 5th International Conference on Internet of Things, Big Data and Security. toim. / Gary Wills; Peter Kacsuk; Victor Chang. SCITEPRESS, 2020. s. 101-111.

Tutkimustuotos >> vertaisarvioitu

**Passive RFID-based Textile Touchpad.** / He, Han; Chen, Xiaochen; Raivio, Leevi; Huttunen, Heikki; Virkki, Johanna.

14th European Conference on Antennas and Propagation, EuCAP 2020. IEEE, 2020. 9135201.

Tutkimustuotos >> vertaisarvioitu

**Reinforcement learning for improved UAV-based integrated access and backhaul operation.** / Tafintsev, Nikita; Moltchanov, Dmitri; Simsek, Meryem; Yeh, Shu Ping; Andreev, Sergey; Koucheryavy, Yevgeni; Valkama, Mikko.

2020 IEEE International Conference on Communications Workshops, ICC Workshops 2020 - Proceedings. IEEE, 2020. (IEEE/CIC international conference on communications in China - workshops).

Tutkimustuotos >> vertaisarvioitu

**The Internet of Bodies Needs a Human Data Model.** / Makitalo, Niko; Flores-Martin, Daniel; Berrocal, Javier; Garcia-Alonso, Jose Manuel; Ihanntola, Petri; Ometov, Aleksandr; Murillo, Juan Manuel; Mikkonen, Tommi.

julkaisussa: IEEE Internet Computing, 2020.

Tutkimustuotos >> vertaisarvioitu

**UAV-Aided Interference Assessment for Private 5G NR Deployments : Challenges and Solutions.** / Urama, Jani; Wiren, Richard; Galinina, Olga; Kauppi, Juhani; Hiltunen, Kimmo; Erkkilä, Juha; Chernogorov, Fedor; Eteläaho, Pentti; Heikkilä, Marjo; Torsner, Johan; Andreev, Sergey; Valkama, Mikko.

julkaisussa: IEEE Communications Magazine, Vuosikerta 58, Nro 8, 2020, s. 89-95.

Tutkimustuotos >> vertaisarvioitu

**User experience of stereo and spatial audio in 360° live music videos.** / Holm, Jukka; Väänänen, Kaisa; Battah, Anas. AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere. ACM, 2020. s. 134-141.

Tutkimustuotos >> vertaisarvioitu

**Gamified coding : Toy robots and playful learning in early education.** / Heljakka, Katriina; Ihamaki, Pirita; Tuomi, Pauliina; Saarikoski, Petri.

Proceedings - 6th Annual Conference on Computational Science and Computational Intelligence, CSCI 2019. IEEE, 2019. s. 800-805 9071010.

Tutkimustuotos >> vertaisarvioitu

**Is it a tool or a toy? How user conceptions of a system's purpose affect their experience and use.** / Köse, Dicle Berfin; Morschheuser, Benedikt; Hamari, Juho.

julkaisussa: International Journal of Information Management, Vuosikerta 49, 01.12.2019, s. 461-474.

Tutkimustuotos >> vertaisarvioitu

**Joint Sparse Recovery of Misaligned Multimodal Images via Adaptive Local and Nonlocal Cross-Modal Regularization.** / Eslahi, Nasser; Foi, Alessandro.

2019 IEEE 8th International Workshop on Computational Advances in Multi-Sensor Adaptive Processing, CAMSAP 2019 - Proceedings. IEEE, 2019. s. 111-115.

Tutkimustuotos >> vertaisarvioitu

**Optimized wake-up scheme with bounded delay for energy-efficient MTC.** / Rostami, Soheil; Lagen, Sandra; Costa, Mario; Dini, Paolo; Valkama, Mikko.

2019 IEEE Global Communications Conference, GLOBECOM 2019 - Proceedings. IEEE, 2019. 9013534.

Tutkimustuotos >> vertaisarvioitu

**Prototyping directional UAV-based wireless access and backhaul systems.** / Gerasimenko, Mikhail; Pokorny, Jiri; Schneider, Tibor; Sirjov, Jakub; Andreev, Sergey; Hosek, Jiri.

2019 IEEE Global Communications Conference, GLOBECOM 2019 - Proceedings. IEEE, 2019. 9014228.

Tutkimustuotos >> vertaisarvioitu

**Understanding decision-making in recruitment : Opportunities and challenges for information technology.** / Koivunen, Sami; Olsson, Thomas; Olshannikova, Ekaterina; Lindberg, Aki.

julkaisussa: Proceedings of the ACM on Human-Computer Interaction, Vuosikerta 3, Nro GROUP, 242, 01.12.2019.

Tutkimustuotos >> vertaisarvioitu

**Promoting local culture and enriching airport experiences through interactive storytelling.** / Burova, Alisa; Kelling, Chelsea; Keskinen, Tuuli; Hakulinen, Jaakko; Kallioniemi, Pekka; Väättäjä, Heli; Turunen, Markku.

MUM 2019 - 18th International Conference on Mobile and Ubiquitous Multimedia, Proceedings. toim. / Giulio Jacucci; Fabio Paterno; Michael Rohs; Carmen Santoro. Association for Computing Machinery, 2019. 3365640 (ACM International Conference Proceeding Series).

Tutkimustuotos >> vertaisarvioitu

**Programming languages for data-intensive HPC applications : A systematic mapping study.** / Amaral, Vasco; Norberto, Beatriz; Goulão, Miguel; Aldinucci, Marco; Benkner, Siegfried; Bracciali, Andrea; Carreira, Paulo; Celms, Edgars; Correia, Luís; Grelck, Clemens; Karatza, Helen; Kessler, Christoph; Kilpatrick, Peter; Martiniano, Hugo; Mavridis, Ilias; Pillana, Sabri; Respício, Ana; Simão, José; Veiga, Luís; Visa, Ari.

julkaisussa: Parallel Computing, Vuosikerta 91, 102584, 08.11.2019.

Tutkimustuotos >> vertaisarvioitu

**Feasibility of FPGA accelerated IPsec on cloud.** / Vajaranta, Markku; Oinonen, Arto; Hämäläinen, Timo D.; Viitamäki, Vili; Markunmäki, J.; Kulmala, Ari.

julkaisussa: Microprocessors and Microsystems, Vuosikerta 71, 102861, 01.11.2019.

Tutkimustuotos >> vertaisarvioitu

**Closed-Loop DPD for Digital MIMO Transmitters under Antenna Crosstalk.** / Brihuega, Alberto; Abdelaziz, Mahmoud; Anttila, Lauri; Barneto, Carlos Baquero; Valkama, Mikko.  
Conference Record - 53rd Asilomar Conference on Circuits, Systems and Computers, ACSSC 2019. toim. / Michael B. Matthews. IEEE Computer Society, 2019. s. 1682-1689 9049001 (Conference Record - Asilomar Conference on Signals, Systems and Computers; Vuosikerta 2019-November).  
[Tutkimustuotos >> vertaisarvioitu](#)

**V2X Connectivity : From LTE to Joint Millimeter Wave Vehicular Communications and Radar Sensing.** / Petrov, Vitaly; Fodor, Gabor; Andreev, Sergey; Do, Hieu; Sahlin, Henrik.  
Conference Record - 53rd Asilomar Conference on Circuits, Systems and Computers, ACSSC 2019. toim. / Michael B. Matthews. IEEE Computer Society, 2019. s. 1120-1124 9048846 (Conference Record - Asilomar Conference on Signals, Systems and Computers; Vuosikerta 2019-November).  
[Tutkimustuotos >> vertaisarvioitu](#)

**UAV-based gateways for wireless nanosensor networks deployed over large areas.** / Pirmagomedov, Rustam; Kirichek, Ruslan; Blinnikov, Mikhail; Koucheryavy, Andrey.  
julkaisussa: Computer Communications, Vuosikerta 146, 15.10.2019, s. 55-62.  
[Tutkimustuotos >> vertaisarvioitu](#)

**Geometry-Based V2V Channel Modeling over Millimeter-Wave in Highway Scenarios.** / Sadovaya, Yekaterina; Solomitskii, Dmitrii; Mao, Wei; Orhan, Oner; Nikopour, Hosein; Talwar, Shilpa; Andreev, Sergey; Koucheryavy, Yevgeni.  
11th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops, ICUMT 2019. IEEE, 2019. (International Congress on Ultra Modern Telecommunications and Control Systems and Workshops).  
[Tutkimustuotos >> vertaisarvioitu](#)

**Implementation of 3GPP LTE Cat-M1 Technology in NS-3 : System Simulation and Performance.** / Masek, Pavel; Stusek, Martin; Zeman, Krystof; Drapela, Roman; Ometov, Aleksandr; Hosek, Jiri.  
11th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops, ICUMT 2019. IEEE, 2019. (International Congress on Ultra Modern Telecommunications and Control Systems and Workshops).  
[Tutkimustuotos >> vertaisarvioitu](#)

**Multi-Radio Perspectives for Massive MTC Localization : Energy Consumption and Utility.** / Mikhaylov, Konstantin; Valkama, Mikko; Lema, Maria A.; Andreev, Sergey; Gupta, Rohit; Galinina, Olga; Destino, Giuseppe; Mahmoodi, Toktam; Dohler, Mischa; Koucheryavy, Yevgeni.  
11th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops, ICUMT 2019. IEEE, 2019. (International Congress on Ultra Modern Telecommunications and Control Systems and Workshops).  
[Tutkimustuotos >> vertaisarvioitu](#)

**On Load-Aware Cell Association Schemes for Group User Mobility in mmWave Networks.** / Zhukov, Fedor; Galinina, Olga; Sopin, Eduard; Andreev, Sergey; Samouylov, Konstantin.  
11th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops, ICUMT 2019. IEEE, 2019. (International Congress on Ultra Modern Telecommunications and Control Systems and Workshops).  
[Tutkimustuotos >> vertaisarvioitu](#)

**Red Alert : Break-Glass Protocol to Access Encrypted Medical Records in the Cloud.** / De Oliveira, Marcela Tuler; Michalas, Antonis; Groot, Adrien E.D.; Marquering, Henk A.; Olabariaga, Silvia Delgado.  
2019 IEEE International Conference on E-Health Networking, Application and Services, HealthCom 2019. IEEE, 2019. 9009598.  
[Tutkimustuotos >> vertaisarvioitu](#)

**The Double Shadowed  $\kappa$ - $\mu$  Fading Model.** / Simmons, Nidhi; Nogueira Da Silva, Carlos Rafael; Cotton, Simon L.; Sofotasios, Paschalis C.; Ki Yoo, Seong; Yacoub, Michel Daoud.  
2019 International Conference on Wireless and Mobile Computing, Networking and Communications, WiMob 2019. IEEE, 2019. (International Conference on Wireless and Mobile Computing, Networking and Communications).  
[Tutkimustuotos >> vertaisarvioitu](#)

**An approval of MPPT based on pv cell's simplified equivalent circuit during fast-shading conditions.** / Rajput, Shailendra; Averbukh, Moshe; Yahalom, Asher; Minav, Tatiana.

julkaisussa: Electronics (Switzerland), Vuosikerta 8, Nro 9, 1060, 01.09.2019.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**The Internet of Things and Sensor Networks.** / Andreev, Sergey; Dobre, Ciprian.

julkaisussa: IEEE Communications Magazine, Vuosikerta 57, Nro 9, 01.09.2019, s. 70-70.

[Tutkimustuotos](#) >

**Game postmortems vs. developer Reddit AMAs : Computational analysis of developer communication.** / Lu, Chien; Peltonen, Jaakko; Nummenmaa, Timo.

Proceedings of the 14th International Conference on the Foundations of Digital Games, FDG 2019. toim. / Foaad Khosmood; Johanna Pirker; Thomas Apperley; Sebastian Deterding. ACM, 2019. 22.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Social features in hybrid board game marketing material.** / Nummenmaa, Timo; Kankainen, Ville.

Proceedings of the 14th International Conference on the Foundations of Digital Games, FDG 2019. toim. / Foaad Khosmood; Johanna Pirker; Thomas Apperley; Sebastian Deterding. ACM, 2019. 67.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**6K and 8K effective resolution with 4K HEVC decoding capability for 360 video streaming.** / Zare, Alireza; Homayouni, Maryam; Aminlou, Alireza; Hannuksela, Miska M.; Gabbouj, Moncef.

julkaisussa: ACM Transactions on Multimedia Computing, Communications and Applications, Vuosikerta 15, Nro 2s, 68, 01.08.2019.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Enabling cybersecurity incident reporting and coordinated handling for maritime sector.** / Silverajan, Bilhanan; Vistiaho, Petteri.

2019 14th Asia Joint Conference on Information Security, AsiaJCIS 2019. IEEE, 2019. s. 88-95.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Low-complexity sequential information and energy reception.** / Tegos, Sotiris A.; Diamantoulakis, Panagiotis D.; Pappi, Koralia; Sofotasios, Paschalis C.; Muhaidat, Sami; Karagiannidis, George K.

ISWCS 2019 - 16th International Symposium on Wireless Communication Systems. VDE Verlag GmbH, 2019. s. 635-639 (Proceedings of the International Symposium on Wireless Communication Systems; Vuosikerta 2019-August).

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**PAC it Up : Towards pointer integrity using ARM pointer authentication.** / Liljestrand, Hans; Perez, Carlos Chinaea; Nyman, Thomas; Ekberg, Jan Erik; Wang, Kui; Asokan, N.

Proceedings of the 28th USENIX Security Symposium. The USENIX Association, 2019. s. 177-194.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Physical layer security for dual-hop SWIPT-enabled CR networks.** / Bouabdellah, Mounia; El Bouanani, Faissal; Sofotasios, Paschalis C.; Da Costa, Daniel Benevides; Mezher, Kahtan; Benazza, Hussain; Muhaidat, Sami; Karagiannidis, George K.

ISWCS 2019 - 16th International Symposium on Wireless Communication Systems. VDE Verlag GmbH, 2019. s. 629-634 (Proceedings of the International Symposium on Wireless Communication Systems; Vuosikerta 2019-August).

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Real-time online drilling vibration analysis using data mining.** / Zare, Marzieh; Huova, Mikko; Visa, Ari; Launis, Sirpa.

Proceedings of the 2019 2nd International Conference on Data Science and Information Technology, DSIT 2019. ACM, 2019. s. 175-180.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**High-performance SIMD implementation of the lattice-Boltzmann method on the Xeon Phi processor.** / Robertsén, Fredrik; Mattila, Keijo; Westerholm, Jan.

julkaisussa: Concurrency Computation, Vuosikerta 31, Nro 13, e5072, 10.07.2019.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Location-based beamforming architecture for efficient farming applications with drones.** / Wang, Wenbo; Okati, Niloofar; Tanash, Islam; Riihonen, Taneli; Lohan, Elena-Simona.  
2019 International Conference on Localization and GNSS, ICL-GNSS 2019. toim. / Elena-Simona Lohan; Alexander Rugamer; Jari Nurmi; Wolfgang Koch; Albert Heuberger. IEEE, 2019.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**A perspective on wireless M-bus for smart electricity grids.** / Masek, Pavel; Stusek, Martin; Zeman, Krystof; Mozny, Radek; Ometov, Aleksandr; Hosek, Jiří.  
2019 42nd International Conference on Telecommunications and Signal Processing, TSP 2019. toim. / Norbert Herencsar. IEEE, 2019. s. 730-735.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Investigating human skin using deep learning enhanced multiphoton microscopy.** / Huttunen, Mikko J.; Hristu, Radu; Dumitru, Adrian; Costache, Mariana; Stanciu, Stefan G.  
21st International Conference on Transparent Optical Networks, ICTON 2019. IEEE, 2019. (International Conference on Transparent Optical Networks).  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**MAST: Mask-accelerated shearlet transform for densely-sampled light field reconstruction.** / Gao, Yuan; Bregovic, Robert; Gotchev, Atanas; Koch, Reinhard.  
2019 IEEE International Conference on Multimedia and Expo, ICME 2019. IEEE, 2019. s. 187-192.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Nanoparticles in optical waveguides : A toolbox to promote lasers, amplifiers and sensors.** / Blanc, Wilfried; Vermillac, Manuel; Petit, Laetitia; Lukowiak, Anna; Lu, Zhuorui; Mady, Franck; Benabdesselam, Mourad; Chaussedent, Stéphane; Mehdi, Ahmad; Ferrari, Maurizio.  
21st International Conference on Transparent Optical Networks, ICTON 2019. IEEE, 2019. (International Conference on Transparent Optical Networks).  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**On the performance of narrow-band internet of things (NB-IoT) for delay-tolerant services.** / Mozny, Radek; Masek, Pavel; Stusek, Martin; Zeman, Krystof; Ometov, Aleksandr; Hosek, Jiří.  
2019 42nd International Conference on Telecommunications and Signal Processing, TSP 2019. toim. / Norbert Herencsar. IEEE, 2019. s. 637-642 (2019 42nd International Conference on Telecommunications and Signal Processing, TSP 2019).  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Persistent luminescent glasses prepared using the direct doping method.** / Aryal, U.; Ojha, N.; Trautvetter, T.; Lastusaari, M.; Ueda, J.; Mueller, R.; Veber, A.; Petit, L.  
21st International Conference on Transparent Optical Networks, ICTON 2019. IEEE, 2019. (International Conference on Transparent Optical Networks).  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Portrait instance segmentation for mobile devices.** / Zhu, Lingyu; Wang, Tinghuai; Aksu, Emre; Kämäräinen, Joni-Kristian.  
2019 IEEE International Conference on Multimedia and Expo, ICME 2019. IEEE, 2019. s. 1630-1635.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Real-time measurements of ultrafast instabilities in nonlinear fiber optics : Recent advances.** / Dudley, John M.; Ryczkowski, Piotr; Närhi, Mikko; Billet, Cyril; Merolla, Jean Marc; Lapre, Coraline; Meng, Fanchao; Lacourt, Pierre Ambroise; Genty, Goery.  
21st International Conference on Transparent Optical Networks, ICTON 2019. IEEE, 2019. (International Conference on Transparent Optical Networks).  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Towards efficient nonlinear plasmonic metasurfaces.** / Huttunen, Mikko J.; Stolt, Timo; Reshef, Orad; Kiviniemi, Antti; Czaplicki, Robert; Zang, Xiaorun; Vartiainen, Ismo; Butet, Jeremy; Kuittinen, Markku; Martin, Olivier J.F.; Dolgaleva, Ksenia; Boyd, Robert W.; Kauranen, Martti.

21st International Conference on Transparent Optical Networks, ICTON 2019. IEEE, 2019. (International Conference on Transparent Optical Networks).

Tutkimustuotos > > vertaisarvioitu

**Acceptance and perceptions of interactive location-tracking displays.** / Mäkelä, Ville; Linna, Juhani; Keskinen, Tuuli; Hakulinen, Jaakko; Turunen, Markku.

Pervasive Displays 2019 - 8th ACM International Symposium on Pervasive Displays, PerDis 2019. toim. / Vito Gentile; Jessica R. Cauchard. ACM, 2019. a17.

Tutkimustuotos > > vertaisarvioitu

**Facilitating the first move : Exploring inspirational design patterns for aiding initiation of social encounters.** / Mitchell, Robb; Olsson, Thomas.

C&T 2019 - 9th International Conference on Communities and Technologies, Conference Proceedings. toim. / Hilda Tellioglu; Florian Cech. ACM, 2019. s. 283-294.

Tutkimustuotos > > vertaisarvioitu

**Diffusion of innovation : Case of co-design of cabins in mobile work machine industry.** / Ellman, Asko; Tiainen, Tarja. julkaisussa: Computers, Vuosikerta 8, Nro 2, 39, 01.06.2019.

Tutkimustuotos > > vertaisarvioitu

**Energy Efficiency of Multi-Radio Massive Machine-Type Communication (MR-MMTC) : Applications, Challenges, and Solutions.** / Mikhaylov, Konstantin; Petrov, Vitaly; Gupta, Rohit; Lema, Maria A.; Galinina, Olga; Andreev, Sergey; Koucheryavy, Yevgeni; Valkama, Mikko; Pouttu, Ari; Dohler, Mischa.

julkaisussa: IEEE Communications Magazine, Vuosikerta 57, Nro 6, 8694791, 01.06.2019, s. 100-106.

Tutkimustuotos > > vertaisarvioitu

**Face verification and recognition for digital forensics and information security.** / Amato, Giuseppe; Falchi, Fabrizio; Gennaro, Claudio; Massoli, Fabio Valerio; Passalis, Nikolaos; Tefas, Anastasios; Trivilini, Alessandro; Vairo, Claudio.

7th International Symposium on Digital Forensics and Security, ISDFS 2019. toim. / Asaf Varol; Murat Karabatak; Cihan Varol; Sevginur Teke. IEEE, 2019.

Tutkimustuotos > > vertaisarvioitu

**Future of Ultra-Dense Networks Beyond 5G : Harnessing Heterogeneous Moving Cells.** / Andreev, Sergey; Petrov, Vitaly; Dohler, Mischa; Yanikomeroglu, Halim.

julkaisussa: IEEE Communications Magazine, Vuosikerta 57, Nro 6, 8722593, 01.06.2019, s. 66-92.

Tutkimustuotos > > vertaisarvioitu

**Impact of Different Concrete Types on Radio Propagation : Fundamentals and Practical RF Measurements.** / Asp, Ari; Hentilä, Tuomo; Valkama, Mikko; Pikkuvirta, Jussa; Hujanen, Arto; Huhtinen, Ismo.

2019 4th International Conference on Smart and Sustainable Technologies, SpliTech 2019. toim. / Joel J.P.C. Rodrigues; Petar Solic; Toni Perkovic; Katarina Vukojevic; Joel J.P.C. Rodrigues; Luigi Patrono; Sandro Nizetic. IEEE, 2019.

Tutkimustuotos > > vertaisarvioitu

**Methods for long-term GNSS clock offset prediction.** / Pihlajasalo, Jaakko; Leppäkoski, Helena; Kuismanen, Saara; Ali-Löytty, Simo; Piche, Robert.

2019 International Conference on Localization and GNSS, ICL-GNSS 2019: 4-6 June 2019, Nuremberg, Germany. toim. / Jari Nurmi; Elena-Simona Lohan; Alexander Rugamer; Albert Heuberger; Wolfgang Koch. IEEE, 2019. (International Conference on Localization and GNSS).

Tutkimustuotos > > vertaisarvioitu

**Pre-Grant Signaling for Energy-Efficient 5G and Beyond Mobile Devices : Method and Analysis.** / Rostami, Soheil; Heiska, Kari; Puchko, Oleksandr; Leppänen, Kari; Valkama, Mikko.

julkaisussa: IEEE Transactions on Green Communications and Networking, Vuosikerta 3, Nro 2, 8616818, 01.06.2019, s. 418-432.

Tutkimustuotos > > vertaisarvioitu

**Secure environmental monitoring for industrial internet of things : From framework to live implementation.** / Bezzateev, Sergey; Voloshina, Natalia; Zhidanov, Konstantin; Ometov, Aleksandr.  
2019 International Conference on Localization and GNSS, ICL-GNSS 2019. toim. / Elena-Simona Lohan; Alexander Rugamer; Jari Nurmi; Wolfgang Koch; Albert Heuberger. IEEE, 2019.

Tutkimustuotos >> vertaisarvioitu

**Socially inspired relaying and proactive mode selection in mmWave vehicular communications.** / Moltchanov, Dmitri; Kovalchukov, Roman; Gerasimenko, Mikhail; Andreev, Sergey; Koucheryavy, Yevgeni; Gerla, Mario.  
julkaisussa: IEEE Internet of Things Journal, Vuosikerta 6, Nro 3, 01.06.2019, s. 5172-5183.

Tutkimustuotos >> vertaisarvioitu

**Societal impact as Cost-Benefit Analysis : Comparative analysis of two research infrastructures.** / Magazinik, Anastasiya; Bedolla, Joel Sauza; Lasheras, Nuria Catalan; Mäkinen, Saku.  
2019 IEEE International Conference on Engineering, Technology and Innovation, ICE/ITMC 2019. IEEE, 2019.

Tutkimustuotos >> vertaisarvioitu

**Unmanned aerial system-assisted wilderness search and rescue mission.** / Dinh, Truong Duy; Pirmagomedov, Rustam; Pham, Van Dai; Ahmed, Aram A.; Kirichek, Ruslan; Glushakov, Ruslan; Vladyko, Andrei.  
julkaisussa: International Journal of Distributed Sensor Networks, Vuosikerta 15, Nro 6, 01.06.2019.

Tutkimustuotos >> vertaisarvioitu

**Opportunistic ambient backscatter communication in RF-Powered cognitive radio networks.** / Kishore, Rajalekshmi; Gurugopinath, Sanjeev; Sofotasios, Paschalis C.; Muhaidat, Sami; Al-Dhahir, Naofal.  
julkaisussa: IEEE Transactions on Cognitive Communications and Networking , Vuosikerta 5, Nro 2, 8672817, 06.2019, s. 413-426.

Tutkimustuotos >> vertaisarvioitu

**Linearization of BJTs with logarithmic predistortion.** / Lunden, Olli-Pekka; Paldanius, Timo.  
2019 IEEE Radio and Wireless Symposium, RWS 2019. IEEE, 2019. (IEEE Radio and Wireless Symposium, RWS).

Tutkimustuotos >> vertaisarvioitu

**OFDM radar with LTE waveform : Processing and performance.** / Barneto, Carlos Baquero; Anttila, Lauri; Fleischer, Marko; Valkama, Mikko.  
2019 IEEE Radio and Wireless Symposium, RWS 2019. IEEE COMPUTER SOCIETY PRESS, 2019. 8714410 (IEEE Radio and Wireless Symposium, RWS).

Tutkimustuotos >> vertaisarvioitu

**Asterism : Decentralized file sharing application for mobile devices.** / Heinisuo, Olli-Pekka; Lenarduzzi, Valentina; Taibi, Davide.  
2019 7th IEEE International Conference on Mobile Cloud Computing, Services, and Engineering, MobileCloud 2019. IEEE, 2019. s. 38-47.

Tutkimustuotos >> vertaisarvioitu

**Artificial intelligence yesterday, today and tomorrow.** / Jaakkola, H.; Henno, J.; Mäkelä, J.; Thalheim, B.  
2019 42nd International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2019 - Proceedings. toim. / Karolj Skala; Zeljka Car; Predrag Pale; Darko Huljenic; Matej Janjic; Marko Koricic; Vlado Sruk; Slobodan Ribaric; Tihana Galinac Grbac; Zeljko Butkovic; Marina Cicin-Sain; Dejan Skvorc; Mladen Mauher; Snjezana Babic; Stjepan Gros; Boris Vrdoljak; Edvard Tijan. IEEE, 2019. s. 860-867.

Tutkimustuotos >> vertaisarvioitu

**Dense Moving Fog for Intelligent IoT : Key Challenges and Opportunities.** / Andreev, Sergey; Petrov, Vitaly; Huang, Kaibin; Lema, Maria A.; Dohler, Mischa.  
julkaisussa: IEEE Communications Magazine, Vuosikerta 57, Nro 5, 8648449, 01.05.2019, s. 34-41.

Tutkimustuotos >> vertaisarvioitu

**Error analysis of NOMA-based user cooperation with SWIPT.** / Li, Suyue; Bariah, Lina; Muhaidat, Sami; Sofotasios, Paschalis; Liang, Jie; Wang, Anhong.

Proceedings - 15th Annual International Conference on Distributed Computing in Sensor Systems, DCOSS 2019. IEEE, 2019. s. 507-513.

Tutkimustuotos >> vertaisarvioitu

**Full-Duplex Radio - Increasing the Spectral Efficiency for Military Applications.** / Adrat, Marc; Keller, Reinhardt; Tschauner, Matthias; Wilden, Steffen; Le Nir, Vincent; Riihonen, Taneli; Bowyer, Mark; Pärin, Karel.

2019 International Conference on Military Communications and Information Systems, ICMCIS 2019. IEEE, 2019.

Tutkimustuotos >> vertaisarvioitu

**High-Accuracy Joint Position and Orientation Estimation in Sparse 5G mmWave Channel.** / Talvitie, Jukka; Koivisto, Mike; Levanen, Toni; Valkama, Mikko; Destino, Giuseppe; Wymeersch, Henk.

2019 IEEE International Conference on Communications, ICC 2019 - Proceedings. IEEE, 2019. (IEEE International Conference on Communications).

Tutkimustuotos >> vertaisarvioitu

**Intelligent data service for farmers.** / Linna, P.; Narra, N.; Grönman, J.

2019 42nd International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2019 - Proceedings. toim. / Karolj Skala; Zeljka Car; Predrag Pale; Darko Huljenic; Matej Janjic; Marko Koracic; Vlado Sruk; Slobodan Ribaric; Tihana Galinac Grbac; Zeljko Butkovic; Marina Cicin-Sain; Dejan Skvorc; Mladen Mauher; Snjezana Babic; Stjepan Gros; Boris Vrdoljak; Edvard Tijan. IEEE, 2019. s. 1072-1075.

Tutkimustuotos >> vertaisarvioitu

**Simultaneous Jamming and RC System Detection by Using Full-Duplex Radio Technology.** / Saikanmäki, Joni; Turunen, Matias; Mäenpää, Miikka; Saarinen, Antti-Pekka; Riihonen, Taneli.

2019 International Conference on Military Communications and Information Systems, ICMCIS 2019. IEEE, 2019.

Tutkimustuotos >> vertaisarvioitu

**Sweep Jamming Mitigation Using Adaptive Filtering for Detecting Frequency Agile Systems.** / Pärin, Karel; Riihonen, Taneli; Turunen, Matias.

2019 International Conference on Military Communications and Information Systems, ICMCIS 2019. IEEE, 2019.

Tutkimustuotos >> vertaisarvioitu

**Teaching for virtual work.** / Henno, J.; Jaakkola, H.; Mäkelä, J.

2019 42nd International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2019 - Proceedings. toim. / Karolj Skala; Zeljka Car; Predrag Pale; Darko Huljenic; Matej Janjic; Marko Koracic; Vlado Sruk; Slobodan Ribaric; Tihana Galinac Grbac; Zeljko Butkovic; Marina Cicin-Sain; Dejan Skvorc; Mladen Mauher; Snjezana Babic; Stjepan Gros; Boris Vrdoljak; Edvard Tijan. IEEE, 2019. s. 818-826.

Tutkimustuotos >> vertaisarvioitu

**A Semantic Meta-Model Repository for Lightweight M2M.** / Silverajan, B.; Zhao, Hanning; Kamath, Arjun.

2018 IEEE International Conference on Communication Systems, ICCS 2018. IEEE, 2019. s. 468-472.

Tutkimustuotos >> vertaisarvioitu

**Achievable ergodic capacity under f composite fading conditions.** / Sofotasios, Paschalis C.; Yoo, Seong Ki; Cotton, Simon L.; Muhaidat, Sami; Lopez-Martinez, F. Javier; Romero-Jerez, Juan M.; Mezher, Kahtan; Karagiannidis, George K.

2019 International Conference on Advanced Communication Technologies and Networking, CommNet 2019. toim. / Faissal El Bouanani; Paschalis C. Sofotasios; Daniel Benevides da Costa; Paschalis C. Sofotasios; Fouad Ayoub. IEEE, 2019.

Tutkimustuotos >> vertaisarvioitu

**Achievable fixed rate capacity in emerging wireless systems (invited paper).** / Sofotasios, Paschalis C.; Yoo, Seong Ki; Muhaidat, Sami; Cotton, Simon L.; Lopez-Martinez, F. Javier; Romero-Jerez, Juan M.; Mezher, Kahtan; Karagiannidis, George K.

2019 International Conference on Advanced Communication Technologies and Networking, CommNet 2019. toim. / Faissal El Bouanani; Paschalis C. Sofotasios; Daniel Benevides da Costa; Paschalis C. Sofotasios; Fouad Ayoub. IEEE, 2019. 8742381.

Tutkimustuotos >> vertaisarvioitu

**Automatic detection of water inside concrete slabs using ground penetrating radar.** / Khan, Muhammad Adnan; Vehmas, Risto; Visa, Ari.  
2019 IEEE Radar Conference, RadarConf 2019. IEEE, 2019.  
[Tutkimustuotos >> vertaisarvioitu](#)

**Exploiting Multipath Terahertz Communications for Physical Layer Security in beyond 5G Networks.** / Petrov, Vitaly; Moltchanov, Dmitri; Jornet, Josep Miquel; Koucheryavy, Yevgeni.  
INFOCOM 2019 - IEEE Conference on Computer Communications Workshops, INFOCOM WKSHPS 2019. IEEE, 2019. s. 865-872.  
[Tutkimustuotos >> vertaisarvioitu](#)

**On the physical layer security of a regenerative relay-based mixed RF/UOWC.** / Illi, Elmehtdi; Bouanani, Faissal El; Da Costa, Daniel Benevides; Sofotasios, Paschalis C.; Ayoub, Fouad; Mezher, Kahtan; Muhaidat, Sami.  
2019 International Conference on Advanced Communication Technologies and Networking, CommNet 2019. toim. / Faissal El Bouanani; Paschalis C. Sofotasios; Daniel Benevides da Costa; Paschalis C. Sofotasios; Fouad Ayoub. IEEE, 2019.  
[Tutkimustuotos >> vertaisarvioitu](#)

**On the secrecy analysis of dual-hop underlay multi-source CRNs with multi-eavesdroppers and a multi-antenna destination.** / Bouabdellah, Mounia; Bouanani, Faissal El; Da Costa, Daniel Benevides; Sofotasios, Paschalis C.; Bcn-Azza, Hussain; Mezher, Kahtan; Muhaidat, Sami.  
2019 International Conference on Advanced Communication Technologies and Networking, CommNet 2019. toim. / Faissal El Bouanani; Paschalis C. Sofotasios; Daniel Benevides da Costa; Paschalis C. Sofotasios; Fouad Ayoub. IEEE, 2019. 8742354.  
[Tutkimustuotos >> vertaisarvioitu](#)

**Physical-layer security over generalized SIMO multipath fading channels.** / Moualeu, Jules M.; Sofotasios, Paschalis C.; Da Costa, Daniel B.; Hamouda, Walaa; Dias, Ugo S.; Muhaidat, Sami.  
2019 International Conference on Advanced Communication Technologies and Networking, CommNet 2019. toim. / Faissal El Bouanani; Paschalis C. Sofotasios; Daniel Benevides da Costa; Paschalis C. Sofotasios; Fouad Ayoub. IEEE, 2019.  
[Tutkimustuotos >> vertaisarvioitu](#)

**Superior selective reporting-based spectrum sensing in energy harvesting-aided HCRNs.** / Kishore, Rajalekshmi; Gurugopinath, Sanjeev; Muhaidat, Sami; Sofotasios, Paschalis C.; Mezher, Kahtan; Dobre, Octavia A.; Al-Dhahir, Naofal.  
2019 International Conference on Advanced Communication Technologies and Networking, CommNet 2019. toim. / Faissal El Bouanani; Paschalis C. Sofotasios; Daniel Benevides da Costa; Paschalis C. Sofotasios; Fouad Ayoub. IEEE, 2019. 8742385.  
[Tutkimustuotos >> vertaisarvioitu](#)

**Web of Things Semantic Functionality Distance.** / Robles, Maria Ines; Silverajan, Bilhanan; Narendra, Nanjangud C.  
2019 26th International Conference on Telecommunications, ICT 2019. IEEE, 2019. s. 260-264.  
[Tutkimustuotos >> vertaisarvioitu](#)

**Sensing-throughput tradeoff for superior selective reporting-based spectrum sensing in energy harvesting HCRNs.** / Kishore, Rajalekshmi; Gurugopinath, Sanjeev; Muhaidat, Sami; Sofotasios, Paschalis C.; Dobre, Octavia A.; Al-Dhahir, Naofal.  
julkaisussa: IEEE Transactions on Cognitive Communications and Networking , Vuosikerta 5, Nro 2, 8672813, 22.03.2019, s. 330-341.  
[Tutkimustuotos >> vertaisarvioitu](#)

**Circularly Polarized Textile Tag Antenna for Wearable Passive UHF RFID Systems.** / Kuang, Ye; Ma, Shubin; Ukkonen, Leena; Virkki, Johanna; Björninen, Toni.  
2018 International Applied Computational Electromagnetics Society Symposium in China, ACES-China 2018. IEEE, 2019.  
[Tutkimustuotos >> vertaisarvioitu](#)

**Comparison of Human Head Phantoms with Different Complexities for Implantable Antenna Development.** / Ma, Shubin; Ukkonen, Leena; Sydänheimo, Lauri; Björninen, Toni.  
2018 International Applied Computational Electromagnetics Society (ACES) Symposium: 29 July-1 Aug. 2018, China. IEEE, 2019.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Challenges of Multi-Factor Authentication for Securing Advanced IoT Applications.** / Ometov, Aleksandr; Petrov, Vitaly; Bezzateev, Sergey; Andreev, Sergey; Koucheryavy, Yevgeni; Gerla, Mario.  
julkaisussa: IEEE Network, Vuosikerta 33, Nro 2, 01.03.2019, s. 82-88.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Charge Storage Level Sensor RFID Tag : Impedance Matching and Experimental Characterisation.** / Pournoori, Nikta; Ukkonen, Leena; Sydänheimo, Lauri; Björninen, Toni.  
13th European Conference on Antennas and Propagation, EuCAP 2019. IEEE, 2019.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Optimization of RFID-Based Tunnel Access Monitoring System Antenna Reading Areas.** / Kordelin, Kai; Virkki, Johanna; Kordelin, Jaana; Kuusman, Joel; Mattila, Jussi; Johansson, Markku; Ukkonen, Leena; Sydänheimo, Lauri.  
13th European Conference on Antennas and Propagation, EuCAP 2019. IEEE, 2019. 8739592.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Path Loss Characterization for Intra-Vehicle Wearable Deployments at 60 GHz.** / Semkin, Vasilii; Ponomarenko-Timofeev, Aleksei; Karttunen, Aki; Galinina, Olga; Andreev, Sergey; Koucheryavy, Yevgeni.  
13th European Conference on Antennas and Propagation, EuCAP 2019. IEEE, 2019.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Strain Reliability of Embroidered Passive UHF RFID Tags on 3D-printed Substrates.** / Khan, Zahangir; Rizwan, Muhammad; Rusanen, Riku; Ukkonen, Leena; Virkki, Johanna.  
13th European Conference on Antennas and Propagation, EuCAP 2019. IEEE, 2019.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Energy Detection-Based Spectrum Sensing over Fisher-Snedecor F Fading Channels.** / Yoo, Seong Ki; Cotton, Simon L.; Sofotasios, Paschalis C.; Muhaidat, Sami; Badarneh, Osamah S.; Karagiannidis, George K.  
2018 IEEE Global Communications Conference. IEEE, 2019. 8647778.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Improved Session Continuity in 5G NR with Joint Use of Multi-Connectivity and Guard Bandwidth.** / Kovalchukov, Roman; Moltchanov, Dmitri; Begishev, Vyacheslav; Samuylov, Andrey; Andreev, Sergey; Koucheryavy, Yevgeni; Samouylov, Konstantin.  
2018 IEEE Global Communications Conference, GLOBECOM 2018. IEEE, 2019.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Wirelessly Powered Crowd Sensing : Joint Power Transfer, Sensing, Compression, and Transmission.** / Li, Xiaoyang; You, Changsheng; Andreev, Sergey; Gong, Yi; Huang, Kaibin.  
julkaisussa: IEEE Journal on Selected Areas in Communications, Vuosikerta 37, Nro 2, 02.2019, s. 391-406.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**5G-U: Conceptualizing Integrated Utilization of Licensed and Unlicensed Spectrum for Future IoT.** / Lu, Xi; Petrov, Vitaly; Moltchanov, Dmitri; Andreev, Sergey; Mahmoodi, Toktam; Dohler, Mischa.  
julkaisussa: IEEE Communications Magazine, Vuosikerta 57, Nro 7, 8722595, 2019, s. 92-98.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Code ABC hackathons : Teachers as tinkerers.** / Niemelä, Pia; Partanen, Tiina; Toivanen, Tero; Toikkanen, Tarmo; Kangas, Vuokko; Översti, Markus.  
Digital Turn in Schools - Research, Policy, Practice: Proceedings of ICEM 2018 Conference. Springer International Publishing, 2019. s. 157-169 (Lecture Notes in Educational Technology).

Tutkimustuotos >> vertaisarvioitu

**Connected and Multimodal Passenger Transport Through Big Data Analytics : Case Tampere City Region, Finland.** / Viri, Riku; Aunimo, Lili; Aramo-Immonen, Heli.

Collaborative Networks and Digital Transformation - 20th IFIP WG 5.5 Working Conference on Virtual Enterprises, PRO-VE 2019, Proceedings. toim. / Luis M. Camarinha-Matos; Hamideh Afsarmanesh; Dario Antonelli. Springer New York LLC, 2019. s. 527-538 (IFIP Advances in Information and Communication Technology; Vuosikerta 568).

Tutkimustuotos >> vertaisarvioitu

**Creating resource combinations based on formally described hardware interfaces.** / Siltala, Niko; Järvenpää, Eeva; Lanz, Minna.

Precision Assembly in the Digital Age - 8th IFIP WG 5.5 International Precision Assembly Seminar, IPAS 2018, Revised Selected Papers. Vuosikerta 530 Springer New York LLC, 2019. s. 29-39 (IFIP Advances in Information and Communication Technology).

Tutkimustuotos >> vertaisarvioitu

**Farm detection based on deep convolutional neural nets and semi-supervised green texture detection using VIS-NIR satellite image.** / Sharifzadeh, Sara; Tata, Jagati; Tan, Bo.

DATA 2019 - Proceedings of the 8th International Conference on Data Science, Technology and Applications. toim. / Slimane Hammoudi; Christoph Quix; Jorge Bernardino. SCITEPRESS, 2019. s. 100-108.

Tutkimustuotos >> vertaisarvioitu

**Institutional Perspectives on the Process of Enterprise Architecture Adoption.** / Dang, Duong; Pekkola, Samuli.

julkaisussa: Information Systems Frontiers, 2019.

Tutkimustuotos >> vertaisarvioitu

**Interpolation-Based Interference Rejection Combining for Black-Space Cognitive Radio in Time-Varying Channels.** /

Srinivasan, Sudharsan; Dikmese, Sener; Renfors, Markku.

Cognitive Radio-Oriented Wireless Networks - 14th EAI International Conference, CrownCom 2019. toim. / Faouzi Bader; Pawel Kryszkiewicz; Nikos Dimitriou; Adrian Kliks; Michal Sybis; Dionysia Triantafyllopoulou; Carlos E. Caicedo; Aydin Sezgin. Springer Verlag, 2019. s. 168-179 (Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering; Vuosikerta 291).

Tutkimustuotos >> vertaisarvioitu

**Log analysis of 360-degree video users via MQTT.** / Luoto, Antti.

ICGDA 2019: Proceedings of the 2019 2nd International Conference on Geoinformatics and Data Analysis . ACM, 2019. s. 130-137.

Tutkimustuotos >> vertaisarvioitu

**Modern Family : A Revocable Hybrid Encryption Scheme Based on Attribute-Based Encryption, Symmetric Searchable Encryption and SGX.** / Bakas, Alexandros; Michalas, Antonis.

Security and Privacy in Communication Networks - 15th EAI International Conference, SecureComm 2019, Proceedings. toim. / Songqing Chen; Kim-Kwang Raymond Choo; Xinwen Fu; Wenjing Lou; Aziz Mohaisen. Springer, 2019. s. 472-486 (Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST; Vuosikerta 305 LNICST).

Tutkimustuotos >> vertaisarvioitu

**Novel Filter Bank Based Cooperative Spectrum Sensing Under RF Impairments and Channel Fading Beyond 5G Cognitive Radios.** / Dikmese, Sener; Lamichhane, Kishor; Renfors, Markku.

Cognitive Radio-Oriented Wireless Networks - 14th EAI International Conference, CrownCom 2019, Proceedings. toim. / Faouzi Bader; Pawel Kryszkiewicz; Nikos Dimitriou; Adrian Kliks; Michal Sybis; Dionysia Triantafyllopoulou; Carlos E. Caicedo; Aydin Sezgin. Springer Verlag, 2019. s. 45-58 (Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering; Vuosikerta 291).

Tutkimustuotos >> vertaisarvioitu

**On the Distribution of the Stationary Point of Significance Level for Empirical Distribution Function.** / Kislitsyn, A. A.; Orlov, Yu N.; Moltchanov, D. A.; Samuylov, A. K.; Chukarin, A. V.; Gaidamaka, Yu V.

2018 10th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops (ICUMT). IEEE COMPUTER SOCIETY PRESS, 2019. (International Congress on Ultra Modern Telecommunications and Control

Systems and Workshops; Vuosikerta 2018-November).

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Positioning and Location-Aware Communications for Modern Railways with 5G New Radio.** / Talvitie, Jukka; Levanen, Toni; Koivisto, Mike; Ihalainen, Tero; Pajukoski, Kari; Valkama, Mikko.

julkaisussa: IEEE Communications Magazine, Vuosikerta 57, Nro 9, 2019, s. 24-30.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**The comfort zone concept in a human-robot cooperative task.** / Changizi, Alireza; Lanz, Minna.

Precision Assembly in the Digital Age - 8th IFIP WG 5.5 International Precision Assembly Seminar, IPAS 2018, Revised Selected Papers. Vuosikerta 530 Springer New York LLC, 2019. s. 82-91 (IFIP Advances in Information and Communication Technology; Vuosikerta 530).

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Towards a novel comparison framework of digital maturity assessment models.** / Cognet, B.; Pernot, J. P.; Rivest, L.; Danjou, C.; Wuest, T.; Kärkkäinen, H.; Lafleur, M.

Product Lifecycle Management in the Digital Twin Era - 16th IFIP WG 5.1 International Conference, PLM 2019, Revised Selected Papers: Moscow, Russia, July 8–12, 2019. toim. / Clement Fortin; Louis Rivest; Alain Bernard; Abdelaziz Bouras. Vuosikerta 565 Springer, 2019. s. 58-71 (IFIP Advances in Information and Communication Technology).

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**On the Secrecy Capacity of Fisher-Snedecor F Fading Channels.** / Badarneh, Osamah S.; Sofotasios, Paschalis C.; Muhaidat, Sami; Cotton, Simon L.; Rabie, Khaled; Al-Dhahir, Naofal.

2018 14th International Conference on Wireless and Mobile Computing, Networking and Communications, WiMob 2018. IEEE, 2018. s. 102-107.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**The N-Fisher-Snedecor F Cascaded Fading Model.** / Badarneh, Osamah S.; Muhaidat, Sami; Sofotasios, Paschalis C.; Cotton, Simon L.; Rabie, Khaled; Da Costa, Daniel B.

2018 14th International Conference on Wireless and Mobile Computing, Networking and Communications, WiMob 2018. IEEE, 2018.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Low-latency Packet Parsing in Software Defined Networks.** / Zolfaghari, Hesam; Rossi, Davide; Nurmi, Jari.

2018 IEEE Nordic Circuits and Systems Conference (NORCAS): NORCHIP and International Symposium of System-on-Chip (SoC). IEEE, 2018.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Empirical Effects of Dynamic Human-Body Blockage in 60 GHz Communications.** / Slezak, Christopher; Semkin, Vasilii; Andreev, Sergey; Koucheryavy, Yevgeni; Rangan, Sundeep.

julkaisussa: IEEE Communications Magazine, Vuosikerta 56, Nro 12, 01.12.2018, s. 60-66.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Organizing for openness : six models for developer involvement in hybrid OSS projects.** / Mäenpää, Hanna; Mäkinen, Simo; Kilamo, Terhi; Mikkonen, Tommi; Männistö, Tomi; Ritala, Paavo.

julkaisussa: Journal of Internet Services and Applications, Vuosikerta 9, Nro 1, 17, 01.12.2018.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Benefits of Positioning-Aided Communication Technology in High-Frequency Industrial IoT.** / Lohan, Elena Simona; Koivisto, Mike; Galinina, Olga; Andreev, Sergey; Tölli, Antti; Destino, Giuseppe; Costa, Mário; Leppänen, Kari; Koucheryavy, Yevgeni; Valkama, Mikko.

julkaisussa: IEEE Communications Magazine, Vuosikerta 56, Nro 12, 8535084, 14.11.2018, s. 142-148.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Power mitigation of a heterogeneous multicore architecture on FPGA/ASIC by DFS/DVFS techniques.** / Nouri, Sajjad; Rossi, Davide; Nurmi, Jari.

julkaisussa: Microprocessors and Microsystems, Vuosikerta 63, 01.11.2018, s. 259-268.

**Flexible and Reliable UAV-Assisted Backhaul Operation in 5G mmWave Cellular Networks.** / Gapeyenko, Margarita; Petrov, Vitaly; Moltchanov, Dmitri; Andreev, Sergey; Himayat, Nageen; Koucheryavy, Yevgeni.  
julkaisussa: IEEE Journal on Selected Areas in Communications, Vuosikerta 36, Nro 11, 11.2018, s. 2486-2496.

Tutkimustuotos >> vertaisarvioitu

**Guidelines for development and evaluation of usage data analytics tools for human-machine interactions with industrial manufacturing systems.** / Varsaluoma, Jari; Väättäjä, Heli; Heimonen, Tomi; Tiitinen, Katariina; Hakulinen, Jaakko; Turunen, Markku; Nieminen, Harri.

Mindtrek 2018 - Proceedings of the 22nd International Academic Mindtrek Conference. ACM, 2018. s. 172-181.

Tutkimustuotos >> vertaisarvioitu

**Implications of audio and narration in the user experience design of virtual reality.** / Kelling, Chelsea; Karhu, Jussi; Kauhanen, Otto; Turunen, Markku; Väättäjä, Heli; Lindqvist, Vesa.

Mindtrek 2018 - Proceedings of the 22nd International Academic Mindtrek Conference. ACM, 2018. s. 258-261.

Tutkimustuotos >> vertaisarvioitu

**Robotic process automation - Creating value by digitalizing work in the private healthcare?** / Ratia, M.; Myllärniemi, J.; Helander, N.

Mindtrek 2018 - Proceedings of the 22nd International Academic Mindtrek Conference. ACM, 2018. s. 222-227.

Tutkimustuotos >> vertaisarvioitu

**Systematic literature review on user logging in virtual reality.** / Luoto, Antti.

Mindtrek 2018 - Proceedings of the 22nd International Academic Mindtrek Conference. ACM, 2018. s. 110-117.

Tutkimustuotos >> vertaisarvioitu

**The Finnish you – An interactive storytelling application for an airport environment.** / Burova, Alisa; Kelling, Chelsea; Hakulinen, Jaakko; Kallioniemi, Pekka; Keskinen, Tuuli; Turunen, Markku; Väättäjä, Heli.

Mindtrek 2018 - Proceedings of the 22nd International Academic Mindtrek Conference. ACM, 2018. s. 182-191.

Tutkimustuotos >> vertaisarvioitu

**Social capital characteristics in RD project networks.** / Majuri, Matti; Lanz, Minna.

2018 Portland International Conference on Management of Engineering and Technology (PICMET). IEEE, 2018. 8481775.

Tutkimustuotos >> vertaisarvioitu

**Analysis of accommodation cues in holographic stereograms.** / Mäkinen, Jani; Sahin, Erdem; Gotchev, Atanas.

2018 - 3DTV-Conference: The True Vision - Capture, Transmission and Display of 3D Video, 3DTV-CON 2018. IEEE, 2018. 8478586.

Tutkimustuotos >> vertaisarvioitu

**Viewing simulation of integral imaging display based on wave optics.** / Akpinar, Ugur; Sahin, Erdem; Gotchev, Atanas.

2018 - 3DTV-Conference: The True Vision - Capture, Transmission and Display of 3D Video, 3DTV-CON 2018. IEEE, 2018. 8478568.

Tutkimustuotos >> vertaisarvioitu

**Analyzing Effects of Directionality and Random Heights in Drone-based mmWave Communication.** / Kovalchukov, Roman; Moltchanov, Dmitri; Samuylov, Andrey; Ometov, Aleksandr; Andreev, Sergey; Koucheryavy, Yevgeni; Samouylov, Konstantin.

julkaisussa: IEEE Transactions on Vehicular Technology, Vuosikerta 67, Nro 10, 10.2018, s. 10064-10069.

Tutkimustuotos >> vertaisarvioitu

**Guest Editorial Special Issue on Multimedia Big Data in Internet of Things.** / Ma, Huadong; Yu, Shui; Gabbouj, Moncef; Mueller, Peter.

julkaisussa: IEEE Internet of Things Journal, Vuosikerta 5, Nro 5, 8534720, 10.2018, s. 3405-3407.

Tutkimustuotos >

**Designing for experiences with socially interactive robots.** / Obaid, Mohammad; Kaipainen, Kirsikka; Ocnareescu, Ioana; Ahtinen, Aino.

NordiCHI 2018: Revisiting the Life Cycle - Proceedings of the 10th Nordic Conference on Human-Computer Interaction. ACM, 2018. s. 948-951.

Tutkimustuotos >> vertaisarvioitu

**Understanding animals : A critical challenge in ACI.** / Aspling, Fredrik; Juhlin, Oskar; Väättäjä, Heli.

NordiCHI 2018: Revisiting the Life Cycle - Proceedings of the 10th Nordic Conference on Human-Computer Interaction. ACM, 2018. s. 148-160.

Tutkimustuotos >> vertaisarvioitu

**Processing and Characterization of Bioactive Borosilicate Glasses and Scaffolds with Persistent Luminescence.** / Del Cerro, P. Roldan; Saarinen, M.; Massera, J.; Norrbo, I.; Lastusaari, M.; Petit, L.

2018 20th International Conference on Transparent Optical Networks, ICTON 2018. Vuosikerta 2018-July IEEE COMPUTER SOCIETY PRESS, 2018. 8473916 (Conference proceedings : International Conference on Transparent Optical Networks).

Tutkimustuotos >> vertaisarvioitu

**A Framework for Data Collection, Transformation and Processing in Industrial Systems.** / Iftikhar, Umer; Mohammed, Wael M.; Ferrer, Borja Ramis; Lastra, Jose L.Martinez.

Proceedings - IEEE 16th International Conference on Industrial Informatics, INDIN 2018. Institute of Electrical and Electronics Engineers Inc., 2018. s. 707-712 8471996 (IEEE International Conference on Industrial Informatics).

Tutkimustuotos >> vertaisarvioitu

**An ISA-95 based Ontology for Manufacturing Systems Knowledge Description Extended with Semantic Rules.** / Seyedamir, Ahmadi; Ferrer, Borja Ramis; Lastra, Jose L.Martinez.

Proceedings - IEEE 16th International Conference on Industrial Informatics, INDIN 2018. Institute of Electrical and Electronics Engineers Inc., 2018. s. 374-380 8471929 (IEEE International Conference on Industrial Informatics).

Tutkimustuotos >> vertaisarvioitu

**Supporting a Cloud Platform with Streams of Factory Shop Floor Data in the Context of the Industry 4.0.** / Mohammed, Wael M.; Ferrer, Borja Ramis; Iftikhar, Umer; Lastra, Jose L.Martinez; Simarro, Javier Hitado.

Proceedings - IEEE 16th International Conference on Industrial Informatics, INDIN 2018. Institute of Electrical and Electronics Engineers Inc., 2018. s. 786-791 8471981 (IEEE International Conference on Industrial Informatics).

Tutkimustuotos >> vertaisarvioitu

**Towards the Adoption of Cyber-Physical Systems of Systems Paradigm in Smart Manufacturing Environments.** / Ferrer, Borja Ramis; Mohammed, Wael M.; Martinez Lastra, Jose L.; Villalonga, Alberto; Beruvides, Gerardo; Castano, Fernando; Haber, Rodolfo E.

Proceedings - IEEE 16th International Conference on Industrial Informatics, INDIN 2018. Institute of Electrical and Electronics Engineers Inc., 2018. s. 792-799 8472061 (IEEE International Conference on Industrial Informatics).

Tutkimustuotos >> vertaisarvioitu

**Alternative Power-Based Pricing Schemes for Distribution Network Tariff of Small Customers.** / Lummi, Kimmo; Rautiainen, Antti; Jarventausta, Pertti; Heine, Pirjo; Lehtinen, Jouni; Hyvarinen, Markku; Salo, Johannes.

International Conference on Innovative Smart Grid Technologies, ISGT Asia 2018. Institute of Electrical and Electronics Engineers Inc., 2018. s. 581-586.

Tutkimustuotos >> vertaisarvioitu

**The effect of small-scale mobility on terahertz band communications.** / Petrov, Vitaly; Moltchanov, Dmitri; Koucheryavy, Yevgeni; Jornet, Josep M.

Proceedings of the 5th ACM International Conference on Nanoscale Computing and Communication, NANOCOM 2018. ACM, 2018.

Tutkimustuotos >> vertaisarvioitu

**Utilising EEG signals for modulating neural molecular communications.** / Adonias, Geofly L.; Barros, Michael Taynnan; Doyle, Linda; Balasubramaniam, Sasitharan.  
Proceedings of the 5th ACM International Conference on Nanoscale Computing and Communication, NANOCOM 2018. Association for Computing Machinery, Inc, 2018.

Tutkimustuotos > > vertaisarvioitu

**Intellectual capital and bi-tools in private healthcare value creation.** / Ratia, Milla.  
julkaisussa: Electronic Journal of Knowledge Management, Vuosikerta 16, Nro 2, 01.09.2018, s. 143-154.

Tutkimustuotos > > vertaisarvioitu

**An Explicitly Parallel Architecture for Packet Parsing in Software Defined Networks.** / Zolfaghari, Hesam; Rossi, Davide; Nurmi, Jari.

2018 IEEE 29th International Conference on Application-specific Systems, Architectures and Processors (ASAP). IEEE, 2018. ( IEEE International Conference on Application-Specific Systems, Architectures, and Processors).

Tutkimustuotos > > vertaisarvioitu

**Data Clustering Based on Community Structure in Mutual k-Nearest Neighbor Graph.** / Zhang, Honglei; Kiranyaz, Serkan; Gabbouj, Moncef.

2018 41st International Conference on Telecommunications and Signal Processing, TSP 2018. IEEE, 2018. s. 262-268 8441226.

Tutkimustuotos > > vertaisarvioitu

**Data-Driven Approach to Satellite Selection in Multi-Constellation GNSS Receivers.** / Soininen, Tero; Syrjärinne, Paula; Ali-Löytty, Simo; Schmid, Christoph.

ICL-GNSS 2018 - 2018 8th International Conference on Localization and GNSS: Seamless Indoor-Outdoor Localization, Proceedings. IEEE, 2018.

Tutkimustuotos > > vertaisarvioitu

**Localization and Tracking in mmWave Radio Networks using Beam-Based DoD Measurements.** / Rastorgueva-Foi, Elizaveta; Costa, Mário; Koivisto, Mike; Leppänen, Kari; Valkama, Mikko.

ICL-GNSS 2018 - 2018 8th International Conference on Localization and GNSS: Seamless Indoor-Outdoor Localization, Proceedings. IEEE, 2018. 8440914 (International Conference on Localization and GNSS).

Tutkimustuotos > > vertaisarvioitu

**Performance Evaluation of UAV-Assisted mmWave Operation in Mobility-Enabled Urban Deployments.** / Khosravi, Zeinab; Gerasimenko, Mikhail; Andreev, Sergey; Koucheryavy, Yevgeni.

2018 41st International Conference on Telecommunications and Signal Processing, TSP 2018. IEEE, 2018. s. 150-153 8441321.

Tutkimustuotos > > vertaisarvioitu

**Improvement of GPS and BeiDou extended orbit predictions with CNNs.** / Pihlajasalo, Jaakko; Leppäkoski, Helena; Ali-Löytty, Simo; Piché, Robert.

26th European Navigation Conference, ENC 2018: Gothenburg, Sweden, 14-17 May, 2018. IEEE, 2018. s. 54-59 8433244.

Tutkimustuotos > > vertaisarvioitu

**Dimensional analysis conceptual modeling supporting adaptable reasoning in simulation-based training.** / Coatanea, Eric; Roca, Ric.

2018 13th System of Systems Engineering Conference, SoSE 2018. IEEE, 2018. s. 245-252.

Tutkimustuotos > > vertaisarvioitu

**Improving initial access reliability of 5G mmWave cellular in massive V2X communications scenarios.** / Orsino, Antonino; Galinina, Olga; Andreev, Sergey; Yilmaz, Osman N.C.; Tirronen, Tuomas; Torsner, Johan; Koucheryavy, Yevgeni.

2018 IEEE International Conference on Communications, ICC 2018. IEEE, 2018. 8422158.

Tutkimustuotos > > vertaisarvioitu

**Multi-RAT LPWAN in Smart Cities : Trial of LoRaWAN and NB-IoT Integration.** / Mikhaylov, Konstantin; Stusek, Martin; Masek, Pavel; Petrov, Vitaly; Petajajarvi, Juha; Andreev, Sergey; Pokorny, Jiri; Hosek, Jiri; Pouttu, Ari; Koucheryavy, Yevgeni.

2018 IEEE International Conference on Communications, ICC 2018 - Proceedings. IEEE, 2018. 8422979.

Tutkimustuotos > > vertaisarvioitu

**Robust pre-grant signaling for energy-efficient 5G and beyond mobile devices.** / Rostami, Soheil; Heiska, Kari; Puchko, Oleksandr; Leppänen, Kari; Valkama, Mikko.

2018 IEEE International Conference on Communications, ICC 2018 - Proceedings. IEEE, 2018.

Tutkimustuotos > > vertaisarvioitu

**Improved depth compression by depth downsampling guided by color super-pixel refinement segmentation.** / Georgiev, Mihail; Gotchev, Atanas.

Proceedings - DCC 2018: 2018 Data Compression Conference. IEEE, 2018.

Tutkimustuotos > > vertaisarvioitu

**Low latency edge rendering scheme for interactive 360 degree virtual reality gaming.** / Viitanen, Marko; Vanne, Jarno; Hämäläinen, Timo D.; Kulmala, Ari.

Proceedings - 2018 IEEE 38th International Conference on Distributed Computing Systems, ICDCS 2018. IEEE, 2018. s. 1557-1560.

Tutkimustuotos > > vertaisarvioitu

**Rate-distortion-complexity optimized coding scheme for kvazaar HEVC intra encoder.** / Lemmetti, Ari; Kallio, Eemeli; Viitanen, Marko; Vanne, Jarno; Hamalainen, Timo D.

Proceedings - DCC 2018: 2018 Data Compression Conference. IEEE, 2018.

Tutkimustuotos > > vertaisarvioitu

**Liking the game : How can spectating motivations influence social media usage at live esports events?** / Sjöblom, Max; Hassan, Lobna; Macey, Joseph; Törhönen, Maria; Hamari, Juho.

Proceedings of the 9th International Conference on Social Media and Society, SMSociety 2018. ACM, 2018. s. 160-167.

Tutkimustuotos > > vertaisarvioitu

**Effects of blockage in deploying mmWave drone base stations for 5g networks and beyond.** / Gapeyenko, Margarita; Bor-Yaliniz, Irem; Andreev, Sergey; Yanikomeroglu, Halim; Koucheryavy, Yevgeni.

2018 IEEE International Conference on Communications Workshops. IEEE, 2018. s. 1-6.

Tutkimustuotos > > vertaisarvioitu

**Modeling and cancellation of self-interference in full-duplex radio transceivers : Volterra series-based approach.** / Korpi, Dani; Turunen, Matias; Anttila, Lauri; Valkama, Mikko.

2018 IEEE International Conference on Communications Workshops. IEEE, 2018. s. 1-6.

Tutkimustuotos > > vertaisarvioitu

**Optimizing wirelessly powered crowd sensing : Trading energy for data.** / Li, Xiaoyang; You, Changsheng; Andreev, Sergey; Gong, Yi; Huang, Kaibin.

2018 IEEE International Conference on Communications Workshops. IEEE, 2018. s. 1-6.

Tutkimustuotos > > vertaisarvioitu

**Cybersecurity Attacks and Defences for Unmanned Smart Ships.** / Silverajan, Bilhanan; Ocak, Mert; Nagel, Benjamin.

Proceedings - IEEE 2018 International Congress on Cybermatics: 2018 IEEE Conferences on Internet of Things, Green Computing and Communications, Cyber, Physical and Social Computing, Smart Data, Blockchain, Computer and Information Technology, iThings/GreenCom/CPSCoM/SmartData/Blockchain/CIT 2018. IEEE, 2018. s. 15-20.

Tutkimustuotos > > vertaisarvioitu

**Secure Firmware Updates for IoT : A Survey.** / Kolehmainen, Antti.

Proceedings - IEEE 2018 International Congress on Cybermatics: 2018 IEEE Conferences on Internet of Things, Green Computing and Communications, Cyber, Physical and Social Computing, Smart Data, Blockchain, Computer and Information Technology, iThings/GreenCom/CPSCoM/SmartData/Blockchain/CIT 2018. IEEE, 2018. s. 112-117.

Tutkimustuotos >> vertaisarvioitu

**Wireless Communications for Optogenetics-Based Brain Stimulation : Present Technology and Future Challenges.** / Balasubramaniam, Sasitharan; Wirdatmadja, Stefanus A.; Barros, Michael Taynnan; Koucheryavy, Yevgeni; Stachowiak, Michal; Jornet, Josep Miquel.

julkaisussa: IEEE Communications Magazine, Vuosikerta 56, Nro 7, 8419204, 01.07.2018, s. 218-224.

Tutkimustuotos >> vertaisarvioitu

**Adjusting university education with workspace training and self-education.** / Henno, J.; Jaakkola, H.; Makela, J.

2018 41st International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2018. IEEE, 2018. s. 701-708.

Tutkimustuotos >> vertaisarvioitu

**Role of the user in information systems development.** / Jaakkola, H.; Thalheim, B.; Henno, J.; Mäkelä, J.; Keto, H.

2018 41st International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2018. IEEE, 2018. s. 625-632.

Tutkimustuotos >> vertaisarvioitu

**Full-duplex radio technology for simultaneously detecting and preventing improvised explosive device activation.** /

Riihonen, Taneli; Korpi, Dani; Turunen, Matias; Valkama, Mikko.

2018 International Conference on Military Communications and Information Systems, ICMCIS 2018. IEEE, 2018. s. 1-4.

Tutkimustuotos >> vertaisarvioitu

**Fabrication and reliability evaluation of passive UHF RFID T-shirts.** / Chen, X.; He, H.; Ukkonen, L.; Virkki, J.; Lu, Y.; Lam, H.

2018 IEEE International Workshop on Antenna Technology, iWAT2018 - Proceedings. IEEE, 2018. s. 1-4.

Tutkimustuotos >> vertaisarvioitu

**Sustainable electric vehicle - Prosumer framework and policy mix.** / Kotilainen, Kirsi; Mäkinen, Saku J.; Valta, Jussi.

2017 IEEE Innovative Smart Grid Technologies - Asia: Smart Grid for Smart Community, ISGT-Asia 2017. IEEE, 2018. s. 1-6.

Tutkimustuotos >> vertaisarvioitu

**Last Meter Indoor Terahertz Wireless Access : Performance Insights and Implementation Roadmap.** / Petrov, Vitaly;

Kokkonen, Joonas; Moltchanov, Dmitri; Lehtomäki, Janne; Koucheryavy, Yevgeni; Juntti, Markku.

julkaisussa: IEEE Communications Magazine, Vuosikerta 56, Nro 6, 01.06.2018, s. 158-165.

Tutkimustuotos >> vertaisarvioitu

**Investigating the effects of legacy bias : User elicited gestures from the end users perspective.** / Erkaya, Merve; Özcan, Oğuzhan; Beşevli, Ceylan; Buruk, Oğuz Turan.

DIS 2018 - Companion Publication of the 2018 Designing Interactive Systems Conference. ACM, 2018. s. 277-281.

Tutkimustuotos >> vertaisarvioitu

**Looking for a five-legged sheep : Identifying enterprise architects' skills and competencies.** / Ylinen, M.; Pekkola, Samuli.

Proceedings of the 19th Annual International Conference on Digital Government Research: Governance in the Data Age, DG.O 2018. ACM, 2018. a58.

Tutkimustuotos >> vertaisarvioitu

**Analysis of differentially modulated cooperative communications over asymmetric fading channels.** / Almaeeni, Sara; Sofotasios, Paschalis C.; Muhaidat, Sami; Karagiannidis, George K.

Proceedings - 2018 International Conference on Advanced Communication Technologies and Networking, CommNet 2018. IEEE, 2018. s. 1-8.

Tutkimustuotos >> vertaisarvioitu

**Capacity analysis under generalized composite fading conditions.** / Sofotasios, Paschalis C.; Yoo, Seong Ki; Bhargava, Nidhi; Muhaidat, Sami; Cotton, Simon L.; Matthaiou, Michail; Valkama, Mikko; Karagiannidis, George K.

Proceedings - 2018 International Conference on Advanced Communication Technologies and Networking, CommNet 2018. IEEE, 2018. s. 1-10.

Tutkimustuotos > > vertaisarvioitu

**Maximum achievable throughput and interference mitigation for SUN in coexistence with WLAN.** / Mohamed, Saad; Hamila, Ridha; Al-Dhahir, Naofal; Gouisse, Ala; Benbrahim, Lazhar; Gabbouj, Moncef.

Proceedings - 2018 International Conference on Advanced Communication Technologies and Networking, CommNet 2018. IEEE, 2018. s. 1-6.

Tutkimustuotos > > vertaisarvioitu

**Outage probability of multi-carrier NOMA systems under joint I/Q imbalance.** / Selim, Bassant; Muhaidat, Sami; Sofotasios, Paschalis C.; Sharif, Bayan S.; Stouraitis, Thanos; Karagiannidis, George K.; Al-Dhahir, Naofal.

Proceedings - 2018 International Conference on Advanced Communication Technologies and Networking, CommNet 2018. IEEE, 2018. s. 1-7.

Tutkimustuotos > > vertaisarvioitu

**Coordinated voltage control as a replacement for passive network reinforcements-A case study.** / Supponen, Antti; Repo, Sami; Kulmala, Anna.

2017 IEEE International Conference on Smart Grid Communications, SmartGridComm 2017. IEEE, 2018. s. 326-331.

Tutkimustuotos > > vertaisarvioitu

**A novel technique for analysis of postural information with wearable devices.** / Jeyhani, Vala; Mahdiani, Shadi; Viik, Jari; Oksala, Niku; Vehkaoja, Antti.

2018 IEEE 15th International Conference on Wearable and Implantable Body Sensor Networks, BSN 2018. IEEE, 2018. s. 30-33.

Tutkimustuotos > > vertaisarvioitu

**Macro cellular network transition from traditional frequency range to 28 GHz millimeter wave frequency band.** / Sheikh, Muhammad Usman; Lempiäinen, Jukka.

julkaisussa: Wireless Networks, Vuosikerta 24, Nro 3, 04.2018, s. 943-953.

Tutkimustuotos > > vertaisarvioitu

**Analytical modeling and analysis of interleaving on correlated wireless channels.** / Moltchanov, Dmitri; Kustarev, Pavel; Kucheryavy, Yevgeni.

julkaisussa: Computer Communications, Vuosikerta 118, 01.03.2018, s. 14-26.

Tutkimustuotos > > vertaisarvioitu

**360-Degree video streaming and its subjective quality.** / Curcio, Igor D.D.; Toukoma, Henri; Naik, Deepa.

SMPTE 2017 Annual Technical Conference and Exhibition, SMPTE 2017. SMPTE, 2018. s. 1-23.

Tutkimustuotos > > vertaisarvioitu

**A multi-agent approach for processing industrial enterprise data.** / Mohammed, Wael M.; Ferrer, Borja Ramis; Martinez, Jose L.; Sanchis, Raquel; Andres, Beatriz; Agostinho, Carlos.

2017 International Conference on Engineering, Technology and Innovation: Engineering, Technology and Innovation Management Beyond 2020: New Challenges, New Approaches, ICE/ITMC 2017 - Proceedings. IEEE, 2018. s. 1209-1215.

Tutkimustuotos > > vertaisarvioitu

**An approach to production scheduling optimization a case of an oil lubrication and hydraulic systems manufacturer.** / Katasonov, Artem; Lastusilta, Toni; Korvola, Timo; Saari, Leila; Bendas, Dan; Mohammed, Wael M.; Lee, Angelica Nieto.

2017 International Conference on Engineering, Technology and Innovation: Engineering, Technology and Innovation Management Beyond 2020: New Challenges, New Approaches, ICE/ITMC 2017 - Proceedings. IEEE, 2018. s. 1123-1130.

Tutkimustuotos > > vertaisarvioitu

**Configuring and visualizing the data resources in a cloud-based data collection framework.** / Mohammed, Wael M.; Ferrer, Borja Ramis; Jose, L.; Lastra, Martinez; Aleixo, David; Agostinho, Carlos.

2017 International Conference on Engineering, Technology and Innovation: Engineering, Technology and Innovation Management Beyond 2020: New Challenges, New Approaches, ICE/ITMC 2017 - Proceedings. IEEE, 2018. s. 1201-1208.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Exploiting suppliers' potential in construction innovations.** / Sariola, Rami.

2017 International Conference on Engineering, Technology and Innovation: Engineering, Technology and Innovation Management Beyond 2020: New Challenges, New Approaches, ICE/ITMC 2017 - Proceedings. IEEE, 2018. s. 678-684.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**The use of advanced imaging technology in welfare technology solutions - Some ethical aspects.** / Lilja, Kari K.; Palomäki, Jari.

3DTV-CON 2017 - 3D True Vision v2: Research and Applications in Future 3D Media. IEEE, 2018. s. 1-4.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Viewport-dependent delivery schemes for stereoscopic panoramic video.** / Ghaznavi-Youvalari, Ramin; Hannuksela, Miska M.; Aminlou, Alireza; Gabbouj, Moncef.

3DTV-CON 2017 - 3D True Vision v2: Research and Applications in Future 3D Media. IEEE, 2018. s. 1-4.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Impact of antenna radiation pattern variation on the performance of SPMA at 28 GHz.** / Sheikh, Muhammad Usman; Lempiäinen, Jukka.

julkaisussa: Wireless Networks, Vuosikerta 24, Nro 2, 02.2018, s. 361–372.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Analyzing Effects of Directional Deafness on mmWave Channel Access in Unlicensed Bands.** / Galinina, Olga; Pyattaev, Alexander; Johnsson, Kerstin; Andreev, Sergey; Koucheryavy, Yevgeni.

2017 IEEE Globecom Workshops, GC Wkshps 2017 - Proceedings. IEEE, 2018. s. 1-7.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Detailed Interference Analysis in Dense mmWave Systems Employing Dual-Polarized Antennas.** / Solomitckii, Dmitrii; Petrov, Vitaly; Nikopour, Hosein; Akdeniz, Mustafa; Orhan, Oner; Himayat, Nageen; Talwar, Shilpa; Andreev, Sergey; Koucheryavy, Yevgeni.

2017 IEEE Globecom Workshops. IEEE, 2018. s. 1-6.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Modeling Three-Dimensional Interference and SIR in Highly Directional mmWave Communications.** / Kovalchukov, Roman; Samuylov, Andrey; Moltchanov, Dmitri; Ometov, Aleksandr; Andreev, Sergey; Koucheryavy, Yevgeni; Samouylov, Konstantin.

2017 IEEE Global Communications Conference, GLOBECOM 2017. IEEE, 2018. s. 1-7.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Technologies for Efficient Amateur Drone Detection in 5G Millimeter-Wave Cellular Infrastructure.** / Solomitckii, Dmitrii; Gapeyenko, Margarita; Semkin, Vasili; Andreev, Sergey; Koucheryavy, Yevgeni.

julkaisussa: IEEE Communications Magazine, Vuosikerta 56, Nro 1, 01.01.2018, s. 43-50.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Achieving End-to-End Reliability of Mission-Critical Traffic in Softwarized 5G Networks.** / Petrov, Vitaly; Lema, Maria A.; Gapeyenko, Margarita; Antonakoglou, Konstantinos; Moltchanov, Dmitri; Sardis, Fragkiskos; Samuylov, Andrey; Andreev, Sergey; Koucheryavy, Yevgeni; Dohler, Mischa.

julkaisussa: IEEE Journal on Selected Areas in Communications, Vuosikerta 36, Nro 3, 2018.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Advanced wireless m-bus platform for intensive field testing in industry 4.0-based systems.** / Masek, Pavel; Hudec, David; Krejci, Jan; Ometov, Aleksandr; Hosek, Jiri; Andreev, Sergey; Kröpl, Franz; Koucheryavy, Yevgeni.

24th European Wireless Conference. VDE Verlag, 2018. s. 150-155.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**A Practical Perspective on 5G-Ready Highly Dynamic Spectrum Management with LSA.** / Masek, Pavel; Mokrov, Evgeny; Zeman, Krystof; Ponomarenko-Timofeev, Aleksey; Pyattaev, Alexander; Nesterov, Sergey; Andreev, Sergey; Hosek, Jiri; Samouylov, Konstantin; Koucheryavy, Yevgeni.  
julkaisussa: Wireless Communications and Mobile Computing, Vuosikerta 2018, 2103868, 2018.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Beating the city : Three inspirational design patterns to promote social play through aligning rhythms.** / Mitchell, Robb; Olsson, Thomas.  
Intelligent Technologies for Interactive Entertainment - 9th International Conference, INTETAIN 2017, Proceedings. Springer Verlag, 2018. s. 159-163 (Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST; Vuosikerta 215).  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Concept design and performance evaluation of UAV-based backhaul link with antenna steering.** / Pokorný, Jiri; Ometov, Aleksandr; Pascual, Pablo; Baquero, Carlos; Masek, Pavel; Pyattaev, Alexander; Garcia, Ainoa; Castillo, Carlos; Andreev, Sergey; Hosek, Jiri; Koucheryavy, Yevgeni.  
julkaisussa: Journal of Communications and Networks, Vuosikerta 20, Nro 5, 8533583, 2018, s. 473-483.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Dynamic Resource Sharing in 5G with LSA : Criteria-Based Management Framework.** / Sadreddini, Zhaleh; Masek, Pavel; Cavdar, Tugrul; Ometov, Aleksandr; Hosek, Jiri; Gudkova, Irina; Andreev, Sergey.  
julkaisussa: Wireless Communications and Mobile Computing, Vuosikerta 2018, 7302025, 2018.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Federated IoT services leveraging 5G technologies at the edge.** / Farris, I.; Orsino, A.; Militano, L.; Iera, A.; Araniti, G.  
julkaisussa: Ad Hoc Networks, Vuosikerta 68, 2018, s. 58-69.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Information Exchange Architecture for Collaborative Industrial Ecosystem.** / Kannisto, Petri; Hästbacka, David; Marttinen, Arto.  
julkaisussa: Information Systems Frontiers, 2018, s. 1-16.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Mobility-Centric Analysis of Communication Offloading for Heterogeneous Internet of Things Devices.** / Kozyrev, Dmitry; Ometov, Aleksandr; Moltchanov, Dmitri; Rykov, Vladimir; Efrosinin, Dmitry; Milovanova, Tatiana; Andreev, Sergey; Koucheryavy, Yevgeni.  
julkaisussa: Wireless Communications and Mobile Computing, Vuosikerta 2018, 3761075, 2018.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Resource allocation and sharing for heterogeneous data collection over conventional 3GPP LTE and emerging NB-IoT technologies.** / Begishev, Vyacheslav; Petrov, Vitaly; Samuylov, Andrey; Moltchanov, Dmitri; Andreev, Sergey; Koucheryavy, Yevgeni; Samouylov, Konstantin.  
julkaisussa: Computer Communications, Vuosikerta 120, 2018, s. 93-101.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Spatial Interpolation of Cyclostationary Test Statistics in Cognitive Radio Networks : Methods and Field Measurements.** / Chaudhari, Sachin; Kosunen, Marko; Mäkinen, Semu; Chandrasekaran, Ramanathan; Oksanen, Jan; Laatta, Markus; Ryytänen, Jussi; Koivunen, Visa; Valkama, Mikko.  
julkaisussa: IEEE Transactions on Vehicular Technology, Vuosikerta 67, Nro 2, 2018, s. 1113-1129.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**System-level analysis of IEEE 802.11ah technology for unsaturated MTC traffic.** / Ometov, Aleksandr; Daneshfar, Nader; Hazmi, Ali; Andreev, Sergey; Del Carpio, Luis Felipe; Amin, Parth; Torsner, Johan; Koucheryavy, Yevgeni; Valkama, Mikko.  
julkaisussa: International Journal of Sensor Networks, Vuosikerta 26, Nro 4, 2018, s. 269-282.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Outlier edge detection using random graph generation models and applications.** / Zhang, Honglei; Kiranyaz, Serkan; Gabbouj, Moncef.

julkaisussa: Journal of Big Data, Vuosikerta 4, Nro 1, 11, 01.12.2017.

Tutkimustuotos > > vertaisarvioitu

**Multi-factor authentication for wearables : Configuring system parameters with risk function.** / Bezzateev, Sergey; Afanasyeva, Aleksandra; Voloshina, Natalia; Ometov, Aleksandr.

Proceedings of the 2nd International Conference on Advanced Wireless Information, Data, and Communication Technologies, AWICT 2017. ACM, 2017.

Tutkimustuotos > > vertaisarvioitu

**Chipless graphene tag and dual-CP reader for Internet of Things.** / Dong, Guoqing; Shen, Yizhu; He, Han; Virkki, Johanna; Hu, Sanming.

2017 International Applied Computational Electromagnetics Society Symposium in China, ACES-China 2017. IEEE, 2017.

Tutkimustuotos > > vertaisarvioitu

**Convergence analysis of error-reduction algorithm for solving of the extended one-dimensional discrete phase retrieval problem.** / Rusu, Corneliu; Astola, Jaakko.

ISSCS 2017 - International Symposium on Signals, Circuits and Systems. IEEE, 2017.

Tutkimustuotos > > vertaisarvioitu

**Lossless compression of high resolution disparity map images.** / Astola, Pekka; Tabus, Ioan.

ISSCS 2017 - International Symposium on Signals, Circuits and Systems. IEEE, 2017.

Tutkimustuotos > > vertaisarvioitu

**Uncoordinated multi-user video streaming in VANETs using Skype.** / Belyaev, Evgeny; Moreschini, Sergio; Vinel, Alexey.

2017 IEEE 22nd International Workshop on Computer Aided Modeling and Design of Communication Links and Networks, CAMAD 2017. IEEE, 2017.

Tutkimustuotos > > vertaisarvioitu

**Architecting liquid software.** / Gallidabino, Andrea; Pautasso, Cesare; Mikkonen, Tommi; Systä, Kari; Voutilainen, Jari-Pekka; Taivalsaari, Antero.

julkaisussa: Journal of Web Engineering, Vuosikerta 16, Nro 5-6, 01.09.2017, s. 433-470.

Tutkimustuotos > > vertaisarvioitu

**Novel Er<sup>3+</sup> doped phosphate glass-ceramics for photonics.** / Petit, L.; Nguyen, H.; Hongisto, M.; Salminen, T.;

Hakkarainen, T.; Lopez-Iscoa, P.; Pugliese, D.; Boetti, N. G.; Milanese, D.

ICTON 2017 - 19th International Conference on Transparent Optical Networks. IEEE COMPUTER SOCIETY PRESS, 2017.

Tutkimustuotos > > vertaisarvioitu

**Business Model Innovation of Startups Developing Multisided Digital Platforms.** / Still, Kaisa; Seppänen, Marko; Korhonen, Heidi; Valkokari, Katri; Suominen, Arho; Kumpulainen, Miika.

Proceedings - 2017 IEEE 19th Conference on Business Informatics, CBI 2017. IEEE, 2017. s. 70-75.

Tutkimustuotos > > vertaisarvioitu

**Design and implementation of adaptive signal processing systems using Markov decision processes.** / Li, Lin; Sapio, Adrian E.; Wu, Jiahao; Liu, Yanzhou; Lee, Kyunghun; Wolf, Marilyn; Bhattacharyya, Shuvra S.

2017 IEEE 28th International Conference on Application-Specific Systems, Architectures and Processors, ASAP 2017. IEEE, 2017. s. 170-175.

Tutkimustuotos > > vertaisarvioitu

**Error performance of NOMA VLC systems.** / Marshoud, Hanaa; Sofotasios, Paschalis C.; Muhaidat, Sami; Karagiannidis, George K.; Sharif, Bayan S.

2017 IEEE International Conference on Communications, ICC 2017. IEEE, 2017.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Federations of connected things for delay-sensitive IoT services in 5G environments.** / Farris, I.; Orsino, A.; Militano, L.; Nitti, M.; Araniti, G.; Atzori, L.; Iera, A.

2017 IEEE International Conference on Communications, ICC 2017. IEEE, 2017.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Analysis of multipath propagation for 5G system at higher frequencies in microcellular environment.** / Sheikh, Muhammad Usman; Lempiäinen, Jukka.

2017 13th International Wireless Communications and Mobile Computing Conference, IWCMC 2017. IEEE, 2017. s. 1660-1664.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Angular wall loss model and Extended Building Penetration model for outdoor to indoor propagation.** / Sheikh, Muhammad Usman; Hiltunen, Kimmo; Lempiäinen, Jukka.

2017 13th International Wireless Communications and Mobile Computing Conference, IWCMC 2017. IEEE, 2017. s. 1291-1296.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Mobility aware eMBMS management in urban 5G-oriented systems.** / Desogus, C.; Fadda, M.; Murrioni, M.; Araniti, G.; Orsino, A.

2017 IEEE International Symposium on Broadband Multimedia Systems and Broadcasting, BMSB 2017. IEEE, 2017.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Novel D2D-based relaying method for multicast services over 3GPP LTE-A systems.** / Araniti, G.; Orsino, A.; Militano, L.; Putrino, G.; Andreev, S.; Koucheryavy, Y.; Iera, A.

2017 IEEE International Symposium on Broadband Multimedia Systems and Broadcasting, BMSB 2017. IEEE, 2017.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Optimal subgroup configuration for multicast services over 5G-satellite systems.** / Orsino, A.; Araniti, G.; Scopelliti, P.; Gudkova, I. A.; Samouylov, K. E.; Iera, A.

2017 IEEE International Symposium on Broadband Multimedia Systems and Broadcasting, BMSB 2017. IEEE, 2017.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Developing curiosity and multimedia skills with programming experiments.** / Henno, J.; Jaakkola, H.; Mäkelä, J.

2017 40th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2017 - Proceedings. IEEE, 2017. s. 694-699.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Open data based value networks : Finnish examples of public events and agriculture.** / Linna, P.; Mäkinen, T.; Yrjönkoski, K.

2017 40th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2017 - Proceedings. IEEE, 2017. s. 1448-1453.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**The educators' telescope to the future of technology.** / Jaakkola, H.; Henno, J.; Thalheim, B.; Mäkelä, J.

2017 40th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2017 - Proceedings. IEEE, 2017. s. 660-665.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Today is the future of yesterday; What is the future of today?** / Jaakkola, H.; Henno, J.; Mäkelä, J.; Thalheim, B.

2017 40th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2017 - Proceedings. IEEE, 2017. s. 635-643.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**NB-IoT for D2D-enhanced content uploading with social trustworthiness in 5G systems.** / Militano, Leonardo; Orsino, Antonino; Araniti, Giuseppe; Iera, Antonio.  
julkaisussa: Future Internet, Vuosikerta 9, Nro 3, 31, 08.07.2017.  
Tutkimustuotos >> vertaisarvioitu

**Feasibility of self-backhauling in full-duplex radio access systems under QoS constraints.** / Korpi, Dani; Riihonen, Taneli; Valkama, Mikko.  
2017 IEEE International Conference on Communications Workshops, ICC Workshops 2017. IEEE, 2017. s. 749-754.  
Tutkimustuotos >> vertaisarvioitu

**Barriers for bridging interpersonal gaps : Three inspirational design patterns for increasing collocated social interaction.** / Mitchell, Robb; Olsson, Thomas.  
C&T 2017 - 8th International Conference on Communities and Technologies, Conference Proceedings. ACM, 2017. s. 2-10.  
Tutkimustuotos >> vertaisarvioitu

**On the prospects of full-duplex military radios.** / Riihonen, Taneli; Korpi, Dani; Rantula, Olli; Valkama, Mikko.  
2017 International Conference on Military Communications and Information Systems, ICMCIS 2017. IEEE, 2017.  
Tutkimustuotos >> vertaisarvioitu

**Comparing communication effort within the scrum, scrum with Kanban, XP, and Banana development processes.** / Taibi, Davide; Lenarduzzi, Valentina; Ahmad, Muhammad Ovais; Liukkunen, Kari.  
Proceedings of the 21st International Conference on Evaluation and Assessment in Software Engineering, EASE 2017. Vuosikerta Part F128635 Association for Computing Machinery, 2017. s. 258-263.  
Tutkimustuotos >> vertaisarvioitu

**Operationalizing the experience factory for effort estimation in agile processes.** / Taibi, D.; Lenarduzzi, V.; Diebold, P.; Lunesu, I.  
Proceedings of the 21st International Conference on Evaluation and Assessment in Software Engineering, EASE 2017. Vuosikerta Part F128635 Association for Computing Machinery, 2017. s. 31-40.  
Tutkimustuotos >> vertaisarvioitu

**Characterization of Radio Links at 60 GHz Using Simple Geometrical and Highly Accurate 3-D Models.** / Semkin, Vasili; Solomitchii, Dmitrii; Naderpour, Reza; Andreev, Sergey; Koucheryavy, Yevgeni; Räisänen, Antti V.  
julkaisussa: IEEE Transactions on Vehicular Technology, Vuosikerta 66, Nro 6, 01.06.2017, s. 4647-4656.  
Tutkimustuotos >> vertaisarvioitu

**Secure and connected wearable intelligence for content delivery at a mass event : A case study.** / Ometov, Aleksandr; Solomitchii, Dmitrii; Olsson, Thomas; Bezzateev, Sergey; Shchesniak, Anna; Andreev, Sergey; Harju, Jarmo; Koucheryavy, Yevgeni.  
julkaisussa: Journal of Sensor and Actuator Networks, Vuosikerta 6, Nro 2, 5, 01.06.2017.  
Tutkimustuotos >> vertaisarvioitu

**Why do people play games? A meta-analysis.** / Hamari, Juho; Keronen, Lauri.  
julkaisussa: International Journal of Information Management, Vuosikerta 37, Nro 3, 01.06.2017, s. 125-141.  
Tutkimustuotos: Katsausartikkeli >> vertaisarvioitu

**Microservices in agile software development : A workshop-based study into issues, advantages, and disadvantages.** / Taibi, Davide; Lenarduzzi, Valentina; Pahl, Claus; Janes, Andrea.  
Proceedings of the XP2017 Scientific Workshops, XP 2017. Vuosikerta Part F129907 Association for Computing Machinery, 2017. a23.  
Tutkimustuotos >> vertaisarvioitu

**Comparing the Built-In Application Architecture Models in the Web Browser.** / Taivalsaari, Antero; Mikkonen, Tommi; Pautasso, Cesare; Systä, Kari.  
2017 IEEE International Conference on Software Architecture (ICSA). IEEE, 2017. s. 51-54 7930198.  
Tutkimustuotos >> vertaisarvioitu

**Effects of extrinsic noise are promoter kinetics dependent.** / Bahrudeen, Mohamed N.M.; Startceva, Sofia; Ribeiro, Andre S.

Proceedings of the 2017 9th International Conference on Bioinformatics and Biomedical Technology, ICBBT 2017. ACM, 2017. s. 44-47.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Towards the Utilization of Crowdsourcing in Traffic Condition Reporting.** / Rantanen, Petri; Sillberg, Pekka; Soini, Jari.

2017 40th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2017 - Proceedings. IEEE, 2017. s. 985-990.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**The Effect of Light Field Reconstruction and Angular Resolution Reduction on the Quality of Experience.** / Kara, Peter A.; Kovacs, Peter T.; Vagharshakyan, Suren; Martini, Maria G.; Barsi, Attila; Balogh, Tibor; Chuchvara, Aleksandra; Chehaibi, Ahmed.

2016 12th International Conference on Signal-Image Technology & Internet-Based Systems (SITIS). IEEE, 2017. s. 781-786.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Compact modeling and management of reconfiguration in digital channelizer implementation.** / Sapio, Adrian E.; Wolf, Marilyn; Bhattacharyya, Shuvra S.

2016 IEEE Global Conference on Signal and Information Processing, GlobalSIP 2016 - Proceedings. IEEE, 2017. s. 595-599.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Preventing keystroke based identification in open data sets.** / Leinonen, Juho; Ihantola, Petri; Hellas, Arto.

L@S 2017 - Proceedings of the 4th (2017) ACM Conference on Learning at Scale. ACM, 2017. s. 101-109.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**A post-mortem empirical investigation of the popularity and distribution of malware files in the contemporary web-facing internet.** / Ruohonen, Jukka; Scepanovic, Sanja; Hyrynsalmi, Sami; Mishkovski, Igor; Aura, Tuomas; Leppänen, Ville.

Proceedings - 2016 European Intelligence and Security Informatics Conference, EISIC 2016 : : 7th European Intelligence and Security Informatics Conference, Uppsala; Sweden; 17 - 19 August 2016.. toim. / J. Brynielsson; F. Johansson . IEEE, 2017. s. 144-147.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Advanced architectures for self-interference cancellation in full-duplex radios : Algorithms and measurements.** / Korpi, Dani; Aghababaeetafreshi, Mona; Piilila, Mauno; Anttila, Lauri; Valkama, Mikko.

2016 50th Asilomar Conference on Signals, Systems and Computers. IEEE, 2017. s. 1553-1557.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Multi-user techniques in visible light communications : A survey.** / Marshoud, Hanaa; Sofotasios, Paschalis C.; Muhaidat, Sami; Karagiannidis, George K.

2016 International Conference on Advanced Communication Systems and Information Security, ACOSIS 2016 - Proceedings. IEEE, 2017.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Experimental evaluation of dynamic licensed shared access operation in live 3GPP LTE system.** / Masek, Pavel; Mokrov, Evgeny; Pyattaev, Alexander; Zeman, Krystof; Ponomarenko-Timofeev, Aleksei; Samuylov, Andrey; Sopin, Eduard; Hosek, Jiri; Gudkova, Irina A.; Andreev, Sergey; Novotny, Vit; Koucheryavy, Yevgeni; Samouylov, Konstantin.

2016 IEEE Global Communications Conference (GLOBECOM). IEEE, 2017.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Effects of Heterogeneous Mobility on D2D-and Drone-Assisted Mission-Critical MTC in 5G.** / Orsino, Antonino; Ometov, Aleksandr; Fodor, Gabor; Moltchanov, Dmitri; Militano, Leonardo; Andreev, Sergey; Yilmaz, Osman N C; Tirronen, Tuomas; Torsner, Johan; Araniti, Giuseppe; Iera, Antonio; Dohler, Mischa; Koucheryavy, Yevgeni.

julkaisussa: IEEE Communications Magazine, Vuosikerta 55, Nro 2, 01.02.2017, s. 79-87.

Tutkimustuotos >> vertaisarvioitu

**Efficient coding of 360-degree pseudo-cylindrical panoramic video for virtual reality applications.** / Youvalari, Ramin Ghaznavi; Aminlou, Alireza; Hannuksela, Miska M.; Gabbouj, Moncef.  
2016 IEEE International Symposium on Multimedia (ISM). IEEE, 2017. s. 525-528.

Tutkimustuotos >> vertaisarvioitu

**Standard-compliant multiview video coding and streaming for virtual reality applications.** / Kammachi-Sreedhar, Kashyap; Aminlou, Alireza; Hannuksela, Miska M.; Gabbouj, Moncef.  
2016 IEEE International Symposium on Multimedia (ISM). IEEE, 2017. s. 295-300.

Tutkimustuotos >> vertaisarvioitu

**Viewport-adaptive encoding and streaming of 360-degree video for virtual reality applications.** / Kammachi-Sreedhar, Kashyap; Aminlou, Alireza; Hannuksela, Miska M.; Gabbouj, Moncef.  
2016 IEEE International Symposium on Multimedia (ISM). IEEE, 2017. s. 583-586.

Tutkimustuotos >> vertaisarvioitu

**Analysis of multipoint transmission at higher frequencies using 3-D ray tracing.** / Sheikh, Muhammad Usman; Lempiäinen, Jukka.

julkaisussa: International Journal of Communication Systems, Vuosikerta 30, Nro 13, 2017.

Tutkimustuotos >> vertaisarvioitu

**Comparing customer taste distributions in vertically differentiated mobile service markets.** / Galinina, Olga; Militano, Leonardo; Orsino, Antonino; Andreev, Sergey; Araniti, Giuseppe; Iera, Antonio; Koucheryavy, Yevgeni.  
Game Theory for Networks - 7th International EAI Conference, GameNets 2017, Proceedings. Springer Verlag, 2017. s. 141-153 (Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering; Vuosikerta 212).

Tutkimustuotos >> vertaisarvioitu

**Dynamic Multi-Connectivity Performance in Ultra-Dense Urban mmWave Deployments.** / Petrov, Vitaly; Solomitckii, Dmitrii; Samuylov, Andrey; Lema, Maria A.; Gapeyenko, Margarita; Moltchanov, Dmitri; Andreev, Sergey; Naumov, Valeriy; Samouylov, Konstantin; Dohler, Mischa; Koucheryavy, Yevgeni.

julkaisussa: IEEE Journal on Selected Areas in Communications, Vuosikerta 35, Nro 9, 2017, s. 2038-2055.

Tutkimustuotos >> vertaisarvioitu

**Exploiting D2D communications at the network edge for mission-critical IoT applications.** / Orsino, A.; Farris, I.; Militano, L.; Araniti, G.; Andreev, S.; Gudkova, I. A.; Koucheryavy, Y.; Iera, A.  
European Wireless 2017 - 23rd European Wireless Conference. VDE, 2017.

Tutkimustuotos >> vertaisarvioitu

**From theories to game mechanics : Developing a game for training rational numbers.** / Kiili, Kristian.

Proceedings of the 11th European Conference on Games Based Learning, ECGBL 2017. Academic Conferences and Publishing International Limited, 2017. s. 328-334.

Tutkimustuotos >> vertaisarvioitu

**Leveraging heterogeneous device connectivity in a converged 5G-IoT ecosystem.** / Galinina, Olga; Andreev, Sergey; Komarov, Mikhail; Maltseva, Svetlana.

julkaisussa: Computer Networks, Vuosikerta 128, 2017, s. 123-132.

Tutkimustuotos >> vertaisarvioitu

**Perceptual quality of reconstructed medical images on projection-based light field displays.** / Kara, Peter A.; Kovacs, Peter T.; Vagharshakyan, Suren; Martini, Maria G.; Imre, Sandor; Barsi, Attila; Lackner, Kristof; Balogh, Tibor.

eHealth 360° - International Summit on eHealth, Revised Selected Papers. Springer Verlag, 2017. s. 476-483 (Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering; Vuosikerta 181).

Tutkimustuotos >> vertaisarvioitu

**Reliability-centric analysis of offloaded computation in cooperative wearable applications.** / Ometov, Aleksandr; Kozyrev, Dmitry; Rykov, Vladimir; Andreev, Sergey; Gaidamaka, Yuliya; Koucheryavy, Yevgeni.  
julkaisussa: *Wireless Communications and Mobile Computing*, Vuosikerta 2017, 9625687, 2017.  
Tutkimustuotos >> vertaisarvioitu

**Samsung and Volkswagen crisis communication in Facebook and Twitter : A comparative study.** / Zhang, Boyang; Veijalainen, Jari; Kotkov, Denis.  
WEBIST 2017 - Proceedings of the 13th International Conference on Web Information Systems and Technologies. SCITEPRESS, 2017. s. 312-323.  
Tutkimustuotos >> vertaisarvioitu

**The Web as a software platform : Ten years later.** / Taivalsaari, Antero; Mikkonen, Tommi.  
WEBIST 2017 - Proceedings of the 13th International Conference on Web Information Systems and Technologies. SCITEPRESS, 2017. s. 41-50.  
Tutkimustuotos >> vertaisarvioitu

**Wireless M-bus in industrial IoT : Technology overview and prototype implementation.** / Zeman, Krystof; Masek, Pavel; Krejci, Jan; Ometov, Aleksandr; Hosek, Jiri; Andreev, Sergey; Kröpfel, Franz.  
European Wireless 2017 - 23rd European Wireless Conference. VDE, 2017.  
Tutkimustuotos >> vertaisarvioitu

**Describing mobile devices as RESTful services for the end-users.** / Ruokonen, Anna; Wu, Zhenli; Lu, Rui.  
2016 IEEE International Conference on Mobile Services (MS). IEEE, 2016. s. 127-134.  
Tutkimustuotos >> vertaisarvioitu

**Dynamic social trust associations over d2d communications : An implementation perspective.** / Urama, Jani; Olshannikova, Ekaterina; Ometov, Aleksandr; Masek, Pavel; Andreev, Sergey; Olsson, Thomas; Hosek, Jiri; Niutanen, Jussi; Koucheryavy, Yevgeni; Mikkonen, Tommi.  
2016 IEEE International Conference on Mobile Services (MS). IEEE, 2016. s. 186-189.  
Tutkimustuotos >> vertaisarvioitu

**PAPR reduction and digital predistortion for non-contiguous waveforms with well-localized spectrum.** / Abdelaziz, Mahmoud; Anttila, Lauri; Renfors, Markku; Valkama, Mikko.  
ISWCS 2016 - 13th International Symposium on Wireless Communication Systems, Proceedings. IEEE, 2016. s. 581-585.  
Tutkimustuotos >> vertaisarvioitu

**A coordination-based brokerage architecture for multi-cloud resource markets.** / Aldawood, Sarah; Fowley, Frank; Pahl, Claus; Taibi, Davide; Liu, Xiaodong.  
Proceedings - 2016 4th International Conference on Future Internet of Things and Cloud Workshops, W-FiCloud 2016. Institute of Electrical and Electronics Engineers Inc., 2016. s. 7-14.  
Tutkimustuotos >> vertaisarvioitu

**Guest editorial : Special issue on mobile wireless networks.** / Curado, Marilia; Ganchev, Ivan; Kassler, Andreas; Koucheryavy, Yevgeni.  
julkaisussa: *Computer Networks*, Vuosikerta 107, 09.10.2016, s. 145-147.  
Tutkimustuotos >

**Using elicitation studies to generate collocated interaction methods.** / Jokela, Tero; Rezaei, Parisa Pour; Väänänen, Kaisa.  
Proceedings of the 18th International Conference on Human-Computer Interaction with Mobile Devices and Services Adjunct, MobileHCI 2016. ACM, 2016. s. 1129-1133.  
Tutkimustuotos >> vertaisarvioitu

**Full-duplex mobile device : Pushing the limits.** / Korpi, Dani; Tamminen, Joose; Turunen, Matias; Huusari, Timo; Choi, Yang Seok; Anttila, Lauri; Talwar, Shilpa; Valkama, Mikko.  
julkaisussa: *IEEE Communications Magazine*, Vuosikerta 54, Nro 9, 01.09.2016, s. 80-87.  
Tutkimustuotos >> vertaisarvioitu

**On the performance of time constrained OQAM-OFDM waveforms with preamble based channel estimation.** / Levanen, Toni; Renfors, Markku; Ihalainen, Tero; Lähetkangas, Eeva; Syrjälä, Ville; Valkama, Mikko.  
2016 IEEE Wireless Communications and Networking Conference Workshops, WCNCW 2016. IEEE, 2016. s. 282-288.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Decoding complexity reduction in projection-based light-field 3D displays using self-contained HEVC tiles.** / Zare, Alireza; Kovacs, Peter Tamas; Aminlou, Alireza; Hannuksela, Miska M.; Gotchev, Atanas.  
2016 3DTV-Conference: The True Vision - Capture, Transmission and Display of 3D Video, 3DTV-CON 2016. IEEE COMPUTER SOCIETY PRESS, 2016.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Sparse modelling and predictive coding of subaperture images for lossless plenoptic image compression.** / Helin, Petri; Astola, Pekka; Rao, Bhaskar; Tabus, Ioan.  
2016 3DTV-Conference: The True Vision - Capture, Transmission and Display of 3D Video, 3DTV-CON 2016. IEEE COMPUTER SOCIETY PRESS, 2016.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Power flow solutions of AC/DC micro-grid structures.** / Acha, Enrique; Rubbrecht, Tom; Castro, Luis M.  
19th Power Systems Computation Conference, PSCC 2016. IEEE, 2016.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Texture region detection by trained neural network.** / Naumenko, A.; Krivenko, S.; Lukin, V.; Egiazarian, Karen.  
9th International Kharkiv Symposium on Physics and Engineering of Microwaves, Millimeter and Submillimeter Waves, MSMW 2016. IEEE, 2016.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Exploring synergy between communications, caching, and computing in 5G-grade deployments.** / Andreev, Sergey; Galinina, Olga; Pyattaev, Alexander; Hosek, Jiri; Masek, Pavel; Yanikomeroğlu, Halim; Koucheryavy, Yevgeni.  
julkaisussa: IEEE Communications Magazine, Vuosikerta 54, Nro 8, 01.08.2016, s. 60-69.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**SoftWater : Software-defined networking for next-generation underwater communication systems.** / Akyildiz, Ian F.; Wang, Pu; Lin, Shih Chun.  
julkaisussa: Ad Hoc Networks, Vuosikerta 46, 08.2016.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Portable sensor system for reliable condition measurement.** / Soini, J.; Sillberg, P.; Rantanen, P.; Nummela, J.  
2016 39th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2016 - Proceedings. 2016. s. 1190-1195.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Utilizing MOOCs in the development of education and training programs.** / Linna, Petri; Mäkinen, Timo; Keto, Harri.  
2016 39th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2016 - Proceedings. 2016. s. 861-864.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Analysis of human-body blockage in urban millimeter-wave cellular communications.** / Gapeyenko, Margarita; Samuylov, Andrey; Gerasimenko, Mikhail; Moltchanov, Dmitri; Singh, Sarabjot; Aryafar, Ehsan; Yeh, Shu Ping; Himayat, Nageen; Andreev, Sergey; Koucheryavy, Yevgeni.  
2016 IEEE International Conference on Communications, ICC 2016. IEEE, 2016.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Applicability assessment of terahertz information showers for next-generation wireless networks.** / Petrov, V.; Moltchanov, D.; Koucheryavy, Y.  
2016 IEEE International Conference on Communications, ICC 2016. IEEE, 2016.

Tutkimustuotos >> vertaisarvioitu

**Random-access latency optimization and stability of highly-populated LTE-based M2M deployments.** / Galinina, Olga; Turlikov, Andrey; Tirronen, Tuomas; Torsner, Johan; Andreev, Sergey; Koucheryavy, Yevgeni.  
2016 IEEE International Conference on Communications, ICC 2016. IEEE, 2016.

Tutkimustuotos >> vertaisarvioitu

**Waveform design for massive MISO downlink with energy-efficient receivers adopting 1-bit ADCs.** / Gokceoglu, Ahmet; Bjornson, Emil; Larsson, Erik G.; Valkama, Mikko.  
2016 IEEE International Conference on Communications, ICC 2016. IEEE, 2016.

Tutkimustuotos >> vertaisarvioitu

**Implementing secure network-assisted D2D framework in live 3GPP LTE deployment.** / Ometov, Aleksandr; Masek, Pavel; Urama, Jani; Hosek, Jiri; Andreev, Sergey; Koucheryavy, Yevgeni.  
2016 IEEE International Conference on Communications Workshops (ICC). IEEE, 2016. s. 749-754.

Tutkimustuotos >> vertaisarvioitu

**Analysis of vertical and horizontal sectorization in suburban environment using 3D ray tracing.** / Sheikh, Muhammad Usman; Lempiäinen, Jukka.  
2016 23rd International Conference on Telecommunications (ICT) . IEEE, 2016.

Tutkimustuotos >> vertaisarvioitu

**Error analysis of differentially modulated cooperative systems under generalized fading.** / Almaeeni, Sara; Sofotasios, Paschalis C.; Muhaidat, Sami; Valkama, Mikko.  
2016 23rd International Conference on Telecommunications (ICT) . IEEE, 2016.

Tutkimustuotos >> vertaisarvioitu

**Frequency domain penetration loss in the terahertz band.** / Kokkonen, Joonas; Lehtomäki, Janne; Petrov, Vitaly; Moltchanov, Dmitri; Juntti, Markku.  
2016 Global Symposium on Millimeter Waves (GSMM) & ESA Workshop on Millimetre-Wave Technology and Applications . IEEE, 2016.

Tutkimustuotos >> vertaisarvioitu

**Migration to 28 GHz frequency with higher order sectorization in urban macro cellular environment.** / Sheikh, Muhammad Usman; Lempiäinen, Jukka.  
2016 23rd International Conference on Telecommunications (ICT) . IEEE, 2016.

Tutkimustuotos >> vertaisarvioitu

**Outage probability under I/Q imbalance and cascaded fading effects.** / Boulogeorgos, Alexandros Apostolos A; Sofotasios, Paschalis C.; Selim, Bassant; Muhaidat, Sami; Karagiannidis, George K.; Valkama, Mikko.  
2016 23rd International Conference on Telecommunications (ICT) . IEEE, 2016.

Tutkimustuotos >> vertaisarvioitu

**SER of M-QAM decode-and-forward multi-relay systems under generalized fading conditions.** / Fikadu, Mulugeta K.; Sofotasios, Paschalis C.; Muhaidat, Sami; Cui, Qimei; Valkama, Mikko.  
2016 23rd International Conference on Telecommunications (ICT) . IEEE, 2016.

Tutkimustuotos >> vertaisarvioitu

**An evaluation framework for cross-platform mobile app development tools : A case analysis of adobe PhoneGap framework.** / Ahti, Ville; Hyrynsalmi, Sami; Nevalainen, Olli.  
Computer Systems and Technologies 17th International Conference, CompSysTech 2016 - Proceedings. Vuosikerta 1164 Association for Computing Machinery, 2016. s. 41-48.

Tutkimustuotos >> vertaisarvioitu

**A survey on aims and environments of diversification and obfuscation in software security.** / Hosseinzadeh, Shohreh; Rauti, Sampsa; Laurén, Samuel; Mäkelä, Jari Matti; Holvitie, Johannes; Hyrynsalmi, Sami; Leppänen, Ville.

Computer Systems and Technologies 17th International Conference, CompSysTech 2016 - Proceedings. Vuosikerta 1164 Association for Computing Machinery, 2016. s. 113-120.

[Tutkimustuotos](#) >> [vertaisarvioitu](#)

**Investigating mid-air gestures and handhelds in motion tracked environments.** / Mäkelä, Ville; Korhonen, Hannu; Ojala, Jarno; Järvi, Antti; Väänänen, Kaisa; Raisamo, Roope; Turunen, Markku.

PerDis 2016 - Proceedings of the 5th ACM International Symposium on Pervasive Displays. ACM, 2016. s. 45-51.

[Tutkimustuotos](#) >> [vertaisarvioitu](#)

**Exploring the use of deprecated PHP releases in the wild internet : Still a LAMP issue?** / Ruohonen, Jukka; Hyrynsalmi, Sami; Leppänen, Ville.

6th International Conference on Web Intelligence, Mining and Semantics, WIMS 2016. Association for Computing Machinery, 2016. 26.

[Tutkimustuotos](#) >> [vertaisarvioitu](#)

**Real-time observation of bacterial gene expression noise.** / Anufrieva, Olga; Sala, Adrien; Yli-Harja, Olli; Kandhavelu, Meenakshisundaram.

julkaisussa: Nano Communication Networks, Vuosikerta 8, 06.2016, s. 68-75.

[Tutkimustuotos](#) >> [vertaisarvioitu](#)

**Feasibility characterization of cryptographic primitives for constrained (wearable) IoT devices.** / Ometov, Aleksandr; Masek, Pavel; Malina, Lukas; Florea, Roman; Hosek, Jiri; Andreev, Sergey; Hajny, Jan; Niutanen, Jussi; Koucheryavy, Yevgeni.

IEEE International Conference on Pervasive Computing and Communication Workshops, PerCom Workshops 2016. IEEE, 2016.

[Tutkimustuotos](#) >> [vertaisarvioitu](#)

**On prediction of DCT-based denoising efficiency under spatially correlated noise conditions.** / Rubel, Oleksii; Lukin, Vladimir; Egiazarian, Karen.

2016 13th International Conference on Modern Problems of Radio Engineering, Telecommunications and Computer Science (TCSET) . IEEE, 2016. s. 750-754.

[Tutkimustuotos](#) >> [vertaisarvioitu](#)

**Learnings from the Finnish game industry.** / Helenius, Marko; Kettunen, Petri; Frank, Lauri.

Proceedings of the 10th Travelling Conference on Pattern Languages of Programs, VikingPLoP 2016. ACM, 2016. a12.

[Tutkimustuotos](#) >> [vertaisarvioitu](#)

**Patterns for safety system bus architecture.** / Rauhamäki, Jari.

Proceedings of the 10th Travelling Conference on Pattern Languages of Programs, VikingPLoP 2016. ACM, 2016. a4.

[Tutkimustuotos](#) >> [vertaisarvioitu](#)

**Patterns for subsidiaries as innovation tools.** / Leppänen, Marko; Hokkanen, Laura.

Proceedings of the 10th Travelling Conference on Pattern Languages of Programs, VikingPLoP 2016. ACM, 2016. a7.

[Tutkimustuotos](#) >> [vertaisarvioitu](#)

**Assessing System-Level Energy Efficiency of mmWave-Based Wearable Networks.** / Galinina, Olga; Pyattaev, Alexander; Johnsson, Kerstin; Turlikov, Andrey; Andreev, Sergey; Koucheryavy, Yevgeni.

julkaisussa: IEEE Journal on Selected Areas in Communications, Vuosikerta 34, Nro 4, 01.04.2016, s. 923-937.

[Tutkimustuotos](#) >> [vertaisarvioitu](#)

**A unifying perspective on proximity-based cellular-assisted mobile social networking.** / Andreev, Sergey; Hosek, Jiri; Olsson, Thomas; Johnsson, Kerstin; Pyattaev, Alexander; Ometov, Aleksandr; Olshannikova, Ekaterina; Gerasimenko, Mikhail; Masek, Pavel; Koucheryavy, Yevgeni; Mikkonen, Tommi.

julkaisussa: IEEE Communications Magazine, Vuosikerta 54, Nro 4, 01.04.2016, s. 108-116.

[Tutkimustuotos](#) >> [vertaisarvioitu](#)

**BL-LDA : Bringing bigram to supervised topic model.** / Park, Youngsun; Alam, Md Hijbul; Ryu, Woo Jong; Lee, Sangkeun. Proceedings - 2015 International Conference on Computational Science and Computational Intelligence, CSCI 2015. Institute of Electrical and Electronics Engineers Inc., 2016. s. 83-88 7424068.  
Tutkimustuotos >> vertaisarvioitu

**Digital predistortion for mitigating spurious emissions in spectrally agile radios.** / Abdelaziz, Mahmoud; Fu, Zhu; Anttila, Lauri; Wyglinski, Alexander M.; Valkama, Mikko. julkaisussa: IEEE Communications Magazine, Vuosikerta 54, Nro 3, 01.03.2016, s. 60-69.  
Tutkimustuotos >> vertaisarvioitu

**Highly dynamic spectrum management within licensed shared access regulatory framework.** / Ponomarenko-Timofeev, Aleksei; Pyattaev, Alexander; Andreev, Sergey; Koucheryavy, Yevgeni; Mueck, Markus; Karls, Ingolf. julkaisussa: IEEE Communications Magazine, Vuosikerta 54, Nro 3, 01.03.2016, s. 100-109.  
Tutkimustuotos >> vertaisarvioitu

**Increasing collocated people's awareness of the mobile user's activities : A field trial of social displays.** / Jarusriboonchai, Pradthana; Malapaschas, Aris; Olsson, Thomas; Väänänen, Kaisa. CSCW '16 - Proceedings of the 19th ACM Conference on Computer-Supported Cooperative Work & Social Computing . ACM, 2016. s. 1691-1702.  
Tutkimustuotos >> vertaisarvioitu

**Social display...We can see what you are doing on your mobile device.** / Jarusriboonchai, Pradthana; Malapaschas, Aris; Olsson, Thomas; Väänänen, Kaisa. CSCW '16 Proceedings of the 19th ACM Conference on Computer-Supported Cooperative Work & Social Computing. ACM, 2016. s. 53-56.  
Tutkimustuotos >> vertaisarvioitu

**Digital full-band linearization of wideband direct-conversion receiver for radar and communications applications.** / Allen, Markus; Marttila, Jaakko; Valkama, Mikko; Singh, Simran; Epp, Michael; Schlecker, Wolfgang. 2015 49th Asilomar Conference on Signals, Systems and Computers . IEEE COMPUTER SOCIETY PRESS, 2016. s. 1361-1368.  
Tutkimustuotos >> vertaisarvioitu

**Innovative e-Tourism Services on Top of Geo2Tag LBS Platform.** / Balandina, Ekaterina; Balandin, Sergey; Koucheryavy, Yevgeni; Mouromtsev, Dmitry. Proceedings - 11th International Conference on Signal-Image Technology and Internet-Based Systems, SITIS 2015. IEEE, 2016. s. 752-759.  
Tutkimustuotos >> vertaisarvioitu

**Guest editorial special issue on the internet of nano things.** / Balasubramaniam, Sasitharan; Jornet, Josep Miquel; Pierobon, Massimiliano; Koucheryavy, Yevgeni. julkaisussa: IEEE Internet of Things Journal, Vuosikerta 3, Nro 1, 01.02.2016, s. 1-3.  
Tutkimustuotos >

**Security and privacy in cloud computing via obfuscation and diversification : A survey.** / Hosseinzadeh, Shohreh; Hyrynsalmi, Sami; Conti, Mauro; Leppänen, Ville. Proceedings - IEEE 7th International Conference on Cloud Computing Technology and Science, CloudCom 2015. Institute of Electrical and Electronics Engineers Inc., 2016. s. 529-535.  
Tutkimustuotos >> vertaisarvioitu

**Supporting deterministic medium access control in wireless vehicular communications.** / Cruz, Cristovao; Ferreira, Joaquim; Oliveira, Arnaldo. 2015 IEEE 82nd Vehicular Technology Conference, VTC Fall 2015 - Proceedings. IEEE, 2016.  
Tutkimustuotos >> vertaisarvioitu

**Accurate depth estimation from a sequence of monocular images supported by proprioceptive sensors.** / Davidson, P.; Raunio, J. P.; Piché, R.

23rd Saint Petersburg International Conference on Integrated Navigation Systems, ICINS 2016 - Proceedings. State Research Center of the Russian Federation, 2016. s. 249-257.

Tutkimustuotos > > vertaisarvioitu

**Analysis of a receiver-based reliable broadcast approach for vehicular networks.** / Gholibeigi, Mozhdeh; Heijenk, Geert; Moltchanov, Dmitri; Koucheryavy, Yevgeni.

julkaisussa: Ad Hoc Networks, Vuosikerta 37, 2016, s. 63-75.

Tutkimustuotos > > vertaisarvioitu

**A novel security-centric framework for D2D connectivity based on spatial and social proximity.** / Ometov, Aleksandr; Orsino, Antonino; Militano, Leonardo; Araniti, Giuseppe; Moltchanov, Dmitri; Andreev, Sergey.

julkaisussa: Computer Networks, Vuosikerta 107, Nro 2, 2016.

Tutkimustuotos > > vertaisarvioitu

**Can we get some service here? On the company transformation from a software vendor to a SaaS provider.** / Koski, Aapo; Mikkonen, Tommi.

WEBIST 2016 - Proceedings of the 12th International Conference on Web Information Systems and Technologies. SCITEPRESS, 2016. s. 279-284.

Tutkimustuotos > > vertaisarvioitu

**Computer vision aided navigation systems.** / Davidson, P.; Merkulova, I.

23rd Saint Petersburg International Conference on Integrated Navigation Systems, ICINS 2016 - Proceedings. State Research Center of the Russian Federation, 2016. s. 560-562.

Tutkimustuotos > > vertaisarvioitu

**Duty cycle challenges of IEEE 802.11ah networks in M2M and IoT applications.** / Qutab-ud-Din, Muhammad; Hazmi, Ali; Del Carpio, Luis Felipe; Gökceoglu, Ahmet; Badihi, Behnam; Amin, Parth; Larmo, Anna; Valkama, Mikko.

European Wireless Conference 2016, EW 2016. VDE, 2016. s. 500-506.

Tutkimustuotos > > vertaisarvioitu

**Educating future coders with a holistic ICT curriculum and new learning solutions.** / Niemelä, Pia; Di Flora, Cristiano; Helevirta, Martti; Isomöttönen, Ville.

7th International Multi-Conference on Complexity, Informatics and Cybernetics, IMCIC 2016 and 7th International Conference on Society and Information Technologies, ICSIT 2016. Vuosikerta 2 IIS, 2016. s. 132-136.

Tutkimustuotos > > vertaisarvioitu

**Estimation of BS transceiver non-reciprocity in multi-user massive MIMO systems.** / Raeesi, Orod; Gokceoglu, Ahmet; Zou, Yaning; Cui, Qimei; Valkama, Mikko.

European Wireless Conference 2016, EW 2016. VDE, 2016. s. 407-414.

Tutkimustuotos > > vertaisarvioitu

**Evolutionary multiobjective optimization for digital predistortion architectures.** / Li, Lin; Ghazi, Amanullah; Boutellier, Jani; Anttila, Lauri; Valkama, Mikko; Bhattacharyya, Shuvra S.

Cognitive Radio Oriented Wireless Networks: 11th International Conference, CROWNCOM 2016, Grenoble, France, May 30 - June 1, 2016, Proceedings. Springer Verlag, 2016. s. 498-510 (Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering; Vuosikerta 172).

Tutkimustuotos > > vertaisarvioitu

**Gravity gradient routing for information delivery in fog Wireless Sensor Networks.** / Ivanov, Stepan; Balasubramaniam, Sasitharan; Botvich, Dmitri; Akan, Ozgur B.

julkaisussa: Ad Hoc Networks, Vuosikerta 46, 2016, s. 61-74.

Tutkimustuotos > > vertaisarvioitu

**Implementation of True IoT Vision : Survey on Enabling Protocols and Hands-On Experience.** / Masek, Pavel; Hosek, Jiri; Zeman, Krystof; Stusek, Martin; Kovac, Dominik; Cika, Petr; Masek, Jan; Andreev, Sergey; Kröpfel, Franz.

julkaisussa: International Journal of Distributed Sensor Networks, Vuosikerta 2016, 8160282, 2016.

Tutkimustuotos > > vertaisarvioitu

**Link level performance of a multicarrier CDMA based device-to-device integrated OFDMA cellular system.** / Xing, Hongnian; Renfors, Markku.  
European Wireless Conference 2016, EW 2016. VDE, 2016. s. 338-343.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**On distribution of SIR in dense D2D deployments.** / Etezov, Shamil; Gaidamaka, Yuliya; Samouylov, Konstantin; Moltchanov, Dmitri; Samuylov, Andrey; Andreev, Sergey; Koucheryavy, Yevgeni.  
European Wireless Conference 2016, EW 2016. VDE, 2016. s. 333-337.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**One-Class Classification based on Extreme Learning and Geometric Class Information.** / Iosifidis, Alexandros; Mygdalis, Vasileios; Tefas, Anastasios; Pitas, Ioannis.  
julkaisussa: Neural Processing Letters, 2016, s. 1-16.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Passive intermodulation and network planning challenges in future indoor networks and energy efficient buildings.** / Asp, Ari; Yunas, Syed Fahad; Kilpeläinen, Vili; Niemelä, Jarno; Valkama, Mikko.  
European Wireless Conference 2016, EW 2016. VDE, 2016. s. 400-406.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Performance analysis of simultaneous communications in bacterial nanonetworks.** / Komarov, Mikhail; Deng, Boya; Petrov, Vitaly; Moltchanov, Dmitri.  
julkaisussa: Nano Communication Networks, Vuosikerta 8, 2016, s. 55-67.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Performance gains from web performance optimization : Case including the optimization of webpage resources in a comprehensive way.** / Vihervaara, Juha; Loula, Pekka; Tuominen, Tommi.  
WEBIST 2016 - Proceedings of the 12th International Conference on Web Information Systems and Technologies: Rome; Italy; 23 April 2016 through 25 April 2016. SCITEPRESS, 2016. s. 188-193.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Technoeconomical Analysis of Macrocell and Femtocell Based HetNet under Different Deployment Constraints.** / Yunas, Syed Fahad; Ansari, Waqas H.; Valkama, Mikko.  
julkaisussa: Mobile Information Systems, Vuosikerta 2016, 6927678, 2016.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Wideband terahertz band reflection and diffuse scattering measurements for beyond 5G indoor wireless networks.** / Kokkonen, Joonas; Petrov, Vitaly; Moltchanov, Dmitri; Lehtomäki, Janne; Koucheryavy, Yevgeni; Juntti, Markku.  
European Wireless Conference 2016, EW 2016. VDE, 2016. s. 89-94.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Wireless M-BUS : An attractive M2M technology for 5G-grade home automation.** / Masek, Pavel; Zeman, Krystof; Kuder, Zenon; Hosek, Jiri; Andreev, Sergey; Fujdiak, Radek; Kropfl, Franz.  
Internet of Things: IoT Infrastructures - 2nd International Summit, 3 IoT 360° 2015, Revised Selected Papers. Springer Verlag, 2016. s. 144-156 (Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering; Vuosikerta 169).  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Energy cooperation for throughput optimization based on save-then-transmit protocol in wireless communication system.** / Dai, Cui-Qin; Li, Fu-Jia; Renfors, Markku.  
julkaisussa: Eurasip Journal on Wireless Communications and Networking, Vuosikerta 2015, Nro 1, 119, 26.12.2015.  
[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Reconfigurable computing for future vision-capable devices.** / López, Miguel Bordallo; Nieto, Alejandro; Silvén, Olli; Bóutellier, Jani; Vilariño, David López.

Proceedings - 2015 International Conference on Embedded Computer Systems: Architectures, Modeling and Simulation, SAMOS 2015. Institute of Electrical and Electronics Engineers Inc., 2015. s. 34-41 7363657.

[Tutkimustuotos >> vertaisarvioitu](#)

**A fully printed multilayer aperture-coupled patch antenna using hybrid 3D / inkjet additive manufacturing technique.** / Nate, Kunal A.; Hester, Jimmy; Isakov, Michael; Bahr, Ryan; Tentzeris, Manos M.

European Microwave Week 2015: "Freedom Through Microwaves", EuMW 2015 - Conference Proceedings; 2015 45th European Microwave Conference Proceedings, EuMC. Institute of Electrical and Electronics Engineers Inc., 2015. s. 610-613 7345837.

[Tutkimustuotos >> vertaisarvioitu](#)

**A novel chipless RFID-based stretchable and wearable hand gesture sensor.** / Le, Taoran; Bahr, Ryan A.; Tentzeris, Manos M.; Song, Bo; Wong, Ching Ping.

European Microwave Week 2015: "Freedom Through Microwaves", EuMW 2015 - Conference Proceedings; 2015 45th European Microwave Conference Proceedings, EuMC. Institute of Electrical and Electronics Engineers Inc., 2015. s. 371-374 7345777.

[Tutkimustuotos >> vertaisarvioitu](#)

**Exploiting 3D printed substrate for microfluidic SIW sensor.** / Moscato, Stefano; Pasian, Marco; Bozzi, Maurizio; Perregrini, Luca; Bahr, Ryan; Le, Taoran; Tentzeris, Manos M.

European Microwave Week 2015: "Freedom Through Microwaves", EuMW 2015 - Conference Proceedings; 2015 45th European Microwave Conference Proceedings, EuMC. Institute of Electrical and Electronics Engineers Inc., 2015. s. 28-31 7345691.

[Tutkimustuotos >> vertaisarvioitu](#)

**Inkjet-printed, flexible, high performance, carbon nanomaterial based sensors for ammonia and DMMP gas detection.** /

Hester, Jimmy G D; Tentzeris, Manos M.; Fang, Yunnan.

European Microwave Week 2015: "Freedom Through Microwaves", EuMW 2015 - Conference Proceedings; 2015 45th European Microwave Conference Proceedings, EuMC. Institute of Electrical and Electronics Engineers Inc., 2015. s. 857-860 7345899.

[Tutkimustuotos >> vertaisarvioitu](#)

**RF characterization of 3D printed flexible materials-NinjaFlex Filaments.** / Bahr, Ryan; Le, Taoran; Tentzeris, Manos M.; Moscato, Stefano; Pasian, Marco; Bozzi, Maurizio; Perregrini, Luca.

European Microwave Week 2015: "Freedom Through Microwaves", EuMW 2015 - Conference Proceedings; 2015 45th European Microwave Conference Proceedings, EuMC. Institute of Electrical and Electronics Engineers Inc., 2015. s. 742-745 7345870.

[Tutkimustuotos >> vertaisarvioitu](#)

**Need to touch, wonder of discovery, and social capital : Experiences with interactive playful seats.** / Nummenmaa, Timo; Tyni, Heikki; Kultima, Annakaisa; Alha, Kati; Holopainen, Jussi.

ACE 2015 - 12th Advances in Computer Entertainment Technology Conference, Proceedings. Vuosikerta 16-19-November-2015 Association for Computing Machinery, 2015. 10.

[Tutkimustuotos >> vertaisarvioitu](#)

**Who is moving - User or device? Experienced quality of mobile 3D video in vehicles.** / Jumisko-Pyykkö, Satu;

Markopoulos, Panos; Hannuksela, Miska M.

ACE 2015 - 12th Advances in Computer Entertainment Technology Conference, Proceedings. ACM, 2015. 13.

[Tutkimustuotos >> vertaisarvioitu](#)

**Sectorized antenna-based DoA estimation and localization : Advanced algorithms and measurements.** / Werner, Janis; Wang, Jun; Hakkarainen, Aki; Gulati, Nikhil; Patron, Damiano; Pfeil, Doug; Dandekar, Kapil; Cabric, Danijela; Valkama, Mikko.

julkaisussa: IEEE Journal on Selected Areas in Communications, Vuosikerta 33, Nro 11, 01.11.2015, s. 2272-2286.

[Tutkimustuotos >> vertaisarvioitu](#)

**Urban sensing and smart home energy optimisations : A machine learning approach.** / Shahriar, Md Sumon; Rahman, M. Sabbir.

IoT-App 2015 - Proceedings of the 2015 International Workshop on Internet of Things Towards Applications, co-located with SenSys 2015. ACM, 2015. s. 19-22.

Tutkimustuotos >> vertaisarvioitu

**Progress and applications of VECSELS : The most versatile laser platform.** / Guina, M.

2015 1st URSI Atlantic Radio Science Conference, URSI AT-RASC 2015. Institute of Electrical and Electronics Engineers Inc., 2015. 7303031.

Tutkimustuotos >> vertaisarvioitu

**A non-repudiable negotiation protocol for security service level agreements.** / Kannisto, J.; Takahashi, T.; Harju, J.; Heikkinen, S.; Helenius, M.; Matsuo, S.; Silverajan, B.

julkaisussa: International Journal of Communication Systems, Vuosikerta 28, Nro 15, 01.10.2015, s. 2067-2081.

Tutkimustuotos >> vertaisarvioitu

**Haptic feedback of gaze gestures with glasses : Localization accuracy and effectiveness.** / Rantala, Jussi; Kangas, Jari; Isokoski, Poika; Akkil, Deepak; Špakov, Oleg; Raisamo, Roope.

UbiComp and ISWC 2015 - Proceedings of the 2015 ACM International Joint Conference on Pervasive and Ubiquitous Computing and the Proceedings of the 2015 ACM International Symposium on Wearable Computers. Association for Computing Machinery, Inc, 2015. s. 855-862.

Tutkimustuotos >> vertaisarvioitu

**Circularly polarized shorted ring slot rectenna with a mesh design for optimized inkjet printing on paper substrate.** /

Martinez, R.; Kimionis, John; Georgiadis, A.; Collado, A.; Tentzeris, M.; Goussetis, G.; Tornero, J. L.

2015 9th European Conference on Antennas and Propagation, EuCAP 2015. Institute of Electrical and Electronics Engineers Inc., 2015. 7228814.

Tutkimustuotos >> vertaisarvioitu

**Humidity passive sensors based on UHF RFID using cork dielectric slabs.** / Goncalves, Ricardo; Pinho, Pedro; Carvalho, Nuno Borges; Tentzeris, Manos M.

2015 9th European Conference on Antennas and Propagation, EuCAP 2015. Institute of Electrical and Electronics Engineers Inc., 2015. 7228346.

Tutkimustuotos >> vertaisarvioitu

**Low-cost microfluidics-enabled tunable loop antenna using inkjet-printing technologies.** / Su, Wenjing; Cook, Benjamin S.; Tentzeris, Manos M.

2015 9th European Conference on Antennas and Propagation, EuCAP 2015. Institute of Electrical and Electronics Engineers Inc., 2015. 7228990.

Tutkimustuotos >> vertaisarvioitu

**Mobiscool : 1<sup>st</sup> workshop on mobile, social and culturally oriented learning.** / Nanavati, A. A.; Rajput, N.; Turunen, M.; Knoche, H.; Rehm, M.

MobileHCI 2015 - Proceedings of the 17th International Conference on Human-Computer Interaction with Mobile Devices and Services Adjunct. Association for Computing Machinery, Inc, 2015. s. 1187-1190.

Tutkimustuotos >> vertaisarvioitu

**Image interpolation based on non-local geometric similarities.** / Zhu, Shuyuan; Zeng, Bing; Liu, Guanghui; Zeng, Liaoyuan; Fang, Lu; Gabbouj, Moncef.

2015 IEEE International Conference on Multimedia and Expo (ICME). IEEE COMPUTER SOCIETY PRESS, 2015.

Tutkimustuotos >> vertaisarvioitu

**Why do people use gamification services?** / Hamari, Juho; Koivisto, Jonna.

julkaisussa: International Journal of Information Management, Vuosikerta 35, Nro 4, 01.08.2015, s. 419-431.

Tutkimustuotos >> vertaisarvioitu

**3D/inkjet-printed origami antennas for multi-direction RF harvesting.** / Kimionis, John; Georgiadis, Apostolos; Isakov, Michael; Qi, Hang J.; Tentzeris, Manos M.

2015 IEEE MTT-S International Microwave Symposium, IMS 2015. Institute of Electrical and Electronics Engineers Inc., 2015. 7166878.

Tutkimustuotos >> vertaisarvioitu

**Additively manufactured multilayer high performance RF passive components on cellulose substrates for internet-of-things electronic circuits.** / Mariotti, Chiara; Cook, Benjamin S.; Alimenti, Federico; Roselli, Luca; Tentzeris, Manos M.  
2015 IEEE MTT-S International Microwave Symposium, IMS 2015. Institute of Electrical and Electronics Engineers Inc., 2015. 7166924.

Tutkimustuotos >> vertaisarvioitu

**A flexible hybrid printed RF energy harvester utilizing catalyst-based copper printing technologies for far-field RF energy harvesting applications.** / Kim, Sangkil; Bito, Jo; Jeong, Soyeon; Georgiadis, Apostolos; Tentzeris, Manos M.  
2015 IEEE MTT-S International Microwave Symposium, IMS 2015. Institute of Electrical and Electronics Engineers Inc., 2015. 7166723.

Tutkimustuotos >> vertaisarvioitu

**Ambient energy harvesting from a two-way talk radio for flexible wearable devices utilizing inkjet printing masking.** / Bito, Jo; Hester, Jimmy G.; Tentzeris, Manos M.  
2015 IEEE MTT-S International Microwave Symposium, IMS 2015. Institute of Electrical and Electronics Engineers Inc., 2015. 7167079.

Tutkimustuotos >> vertaisarvioitu

**Evaluation of SPMA and higher order sectorization for homogeneous SIR through macro sites.** / Sheikh, Muhammad Usman; Säe, Joonas; Lempiäinen, Jukka.  
julkaisussa: Wireless Networks, Vuosikerta 21, Nro 6, 16.07.2015.

Tutkimustuotos >> vertaisarvioitu

**Gathering useful programming data; Analysis and insights from real-time collaborative editing.** / Rantala, M.; Soini, J.; Kilamo, T.  
2015 38th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2015 - Proceedings. The Institute of Electrical and Electronics Engineers, Inc., 2015. s. 229-234 7160270.

Tutkimustuotos >> vertaisarvioitu

**An HMM-based spectrum access algorithm for cognitive radio systems.** / El Din, Menatalla Shehab; El-Tarhuni, Mohamed; Assaleh, Khaled; Kiranyaz, Serkan.  
2015 International Conference on Information and Communication Technology Research, ICTRC 2015. The Institute of Electrical and Electronics Engineers, Inc., 2015. s. 116-119 7156435.

Tutkimustuotos >> vertaisarvioitu

**Performance analysis of IoT-enabling IEEE 802.11ah technology and its RAW mechanism with non-cross slot boundary holding schemes.** / Qutab-Ud-Din, Muhammad; Hazmi, Ali; Badihi, Behnam; Larmo, Anna; Torsner, Johan; Valkama, Mikko.

2015 IEEE 16th International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM). The Institute of Electrical and Electronics Engineers, Inc., 2015.

Tutkimustuotos >> vertaisarvioitu

**Four patterns for internal startups.** / Leppänen, Marko; Hokkanen, Laura.  
Proceedings of the 20th European Conference on Pattern Languages of Programs, EuroPLoP 2015. ACM, 2015. a5.

Tutkimustuotos >> vertaisarvioitu

**Three patterns for user involvement in startups.** / Hokkanen, Laura; Leppänen, Marko.  
Proceedings of the 20th European Conference on Pattern Languages of Programs, EuroPLoP 2015. ACM, 2015. a51.

Tutkimustuotos >> vertaisarvioitu

**Depth Map Compression Using Color-Driven Isotropic Segmentation and Regularised Reconstruction.** / Georgiev, Mihail; Belyaev, Evgeny; Gotchev, Atanas.

Data Compression Conference Proceedings. Vuosikerta 2015-July The Institute of Electrical and Electronics Engineers, Inc., 2015. s. 153-162 7149272.

Tutkimustuotos >> vertaisarvioitu

**Collaborative cloud-based management of home networks.** / Silverajan, Bilhanan; Luoma, Juha-Pekka; Vajaranta, Markku; Itäpuro, Riku.  
Proceedings of the 2015 IFIP/IEEE International Symposium on Integrated Network Management, IM 2015. IEEE, 2015. s. 786-789.

Tutkimustuotos > > vertaisarvioitu

**A comparison of security assurance support of agile software development methods.** / Rindell, Kalle; Hyrynsalmi, Sami; Leppänen, Ville.  
Computer Systems and Technologies - 16th International Conference, CompSysTech 2015: Proceedings. Vuosikerta 1008 Association for Computing Machinery, 2015. s. 61-68.

Tutkimustuotos > > vertaisarvioitu

**Monetary impact of dynamic pricing and demand response on households : The winners and losers.** / Mononen, Matti; Saarenpää, Jukka; Kolehmainen, Mikko; Niska, Harri; Rautiainen, Antti.  
2015 IEEE Power and Energy Society Innovative Smart Grid Technologies Conference, ISGT 2015. The Institute of Electrical and Electronics Engineers, Inc., 2015. 7131818.

Tutkimustuotos > > vertaisarvioitu

**Planar monopole antennas on substrates fabricated through an additive manufacturing process.** / Saintsing, Christy D.; Yu, Kai; Qi, H. Jerry; Tentzeris, Manos.  
julkaisussa: IEEE Radio and Wireless Symposium, RWS, Vuosikerta 2015-June, Nro June, 7129744, 19.06.2015, s. 159-161.

Tutkimustuotos > > vertaisarvioitu

**A novel mode and frequency reconfigurable origami quadrifilar helical antenna.** / Liu, Xueli; Georgakopoulos, Stavros V.; Tentzeris, Manos.  
2015 IEEE 16th Annual Wireless and Microwave Technology Conference, WAMICON 2015. Institute of Electrical and Electronics Engineers Inc., 2015. 7120416.

Tutkimustuotos > > vertaisarvioitu

**An example of scenario-based evaluation of military capability areas An impact assessment of alternative systems on operations.** / Suojanen, Marko; Kuikka, Vesa; Nikkarila, Juha Pekka; Nurmi, Jari.  
9th Annual IEEE International Systems Conference, SysCon 2015 - Proceedings. The Institute of Electrical and Electronics Engineers, Inc., 2015. s. 601-607.

Tutkimustuotos > > vertaisarvioitu

**Recent advances in antenna design and interference cancellation algorithms for in-band full duplex relays.** / Heino, Mikko; Korpi, Dani; Huusari, Timo; Antonio-Rodríguez, Emilio; Venkatasubramanian, Sathya; Riihonen, Taneli; Anttila, Lauri; Icheln, Clemens; Haneda, Katsuyuki; Wichman, Risto; Valkama, Mikko.  
julkaisussa: IEEE Communications Magazine, Vuosikerta 53, Nro 5, 01.05.2015, s. 91-101.

Tutkimustuotos > > vertaisarvioitu

**Partial expansion of dataflow graphs for resource-aware scheduling of multicore signal processing systems.** / Zaki, George; Plishker, William; Bhattacharyya, Shuvra S.; Fruth, Frank.  
Conference Record of the 48th Asilomar Conference on Signals, Systems and Computers. Vuosikerta 2015-April IEEE COMPUTER SOCIETY PRESS, 2015. s. 385-392 7094469.

Tutkimustuotos > > vertaisarvioitu

**Bit error rate of underlay decode-and-forward cognitive networks with best relay selection.** / Ho-Van, Khuong; Sofotasios, Paschalis C.; Alexandropoulos, George C.; Freear, Steven.  
julkaisussa: Journal of Communications and Networks, Vuosikerta 17, Nro 2, 01.04.2015, s. 162-171.

Tutkimustuotos > > vertaisarvioitu

**Context-awareness and the smart grid : Requirements and challenges.** / Donohoe, Michael; Jennings, Brendan; Balasubramaniam, Sasitharan.  
julkaisussa: Computer Networks, Vuosikerta 79, 14.03.2015, s. 263-282.

Tutkimustuotos >> vertaisarvioitu

**Dilute nitride SOAs for high-speed data processing in variable temperature conditions.** / Giannoulis, G.; Korpijärvi, V. M.; Iliadis, N.; Mäkelä, J.; Viheriälä, J.; Apostolopoulos, D.; Guina, M.; Avramopoulos, H.  
Optical Fiber Communication Conference, OFC 2015. OSA - The Optical Society, 2015.

Tutkimustuotos >> vertaisarvioitu

**From the Internet of Things to the Internet of People.** / Miranda, Javier; Mäkitalo, Niko; Garcia-Alonso, Jose; Berrocal, Javier; Mikkonen, Tommi; Canal, Carlos; Murillo, Juan M.  
julkaisussa: IEEE Internet Computing, Vuosikerta 19, Nro 2, 01.03.2015, s. 40-47.

Tutkimustuotos >> vertaisarvioitu

**The internet of Bio-Nano things.** / Akyildiz, I. F.; Pierobon, M.; Balasubramaniam, S.; Koucheryavy, Y.  
julkaisussa: IEEE Communications Magazine, Vuosikerta 53, Nro 3, 01.03.2015, s. 32-40.

Tutkimustuotos >> vertaisarvioitu

**LTE indoor MIMO performances field measurements.** / Nguyen-Thanh, Duc; Le-Tien, Thuong; Bui-Thu, Cao; Le-Thanh, Toi.

International Conference on Advanced Technologies for Communications. IEEE, 2015. s. 84-89.

Tutkimustuotos >> vertaisarvioitu

**Semantic Labeling of Places based on Phone Usage Features using Supervised Learning.** / Rivero Rodriguez, Alejandro; Leppäkoski, Helena; Piché, Robert.  
2014 Ubiquitous Positioning Indoor Navigation and Location Based Service, UPINLBS 2014 - Conference Proceedings. Piscataway, NJ, USA : IEEE, 2015. s. 97-102 7033715.

Tutkimustuotos >> vertaisarvioitu

**Coarse-grained model of protein interaction for bio-inspired nano-communication.** / Knyazev, S.; Tarakanov, S.; Kuznetsov, V.; Porozov, Yu; Koucheryavy, Y.; Stepanov, E.  
2014 6th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops (ICUMT). 2015. s. 260-262.

Tutkimustuotos >> vertaisarvioitu

**Security aspects of e-Health systems migration to the cloud.** / Michalas, Antonis; Paladi, Nicolae; Gehrman, Christian.  
2014 IEEE 16th International Conference on e-Health Networking, Applications and Services, Healthcom 2014. Institute of Electrical and Electronics Engineers Inc., 2015. s. 212-218 7001843.

Tutkimustuotos >> vertaisarvioitu

**Social behavior in bacterial nanonetworks : Challenges and opportunities.** / Hasan, Monowar; Hossain, Ekram; Balasubramaniam, Sasitharan; Koucheryavy, Yevgeni.  
julkaisussa: IEEE Network, Vuosikerta 29, Nro 1, 7018200, 01.01.2015, s. 26-34.

Tutkimustuotos >> vertaisarvioitu

**Spectral and energy efficiency of ultra-dense networks under different deployment strategies.** / Yunas, Syed; Valkama, Mikko; Niemelä, Jarno.

julkaisussa: IEEE Communications Magazine, Vuosikerta 53, Nro 1, 01.01.2015, s. 90-100.

Tutkimustuotos >> vertaisarvioitu

**Towards Trusted eHealth Services in the Cloud.** / Michalas, Antonis; Dowsley, Rafael.  
Proceedings - 2015 IEEE/ACM 8th International Conference on Utility and Cloud Computing, UCC 2015. Institute of Electrical and Electronics Engineers Inc., 2015. s. 618-623 7431484.

Tutkimustuotos >> vertaisarvioitu

**2.4 GHz inkjet-printed RF energy harvester on bulk cardboard substrate.** / Khonsari, Zahra; Björninen, Toni; Tentzeris, Manos M.; Sydänheimo, Lauri; Ukkonen, Leena.  
2015 IEEE Radio and Wireless Symposium (RWS), 25-28 Jan. 2015, San Diego, CA . IEEE, 2015. s. 153-155.

Tutkimustuotos >> vertaisarvioitu

**Cultural influence on online community use : A cross-cultural study on online exercise diary users of three nationalities. /**

Malinen, Sanna; Nurkka, Piia.

julkaisussa: International Journal of Web Based Communities, Vuosikerta 11, Nro 2, 2015, s. 153-169.

Tutkimustuotos >> vertaisarvioitu

**Definition of key performance indicators for energy efficient assessment in the transport sector. /** Mantilla, R. M Fernanda;

Nieto Lee, Angelica; Lastra, Jose L Martinez.

SMARTGREENS 2015 - 4th International Conference on Smart Cities and Green ICT Systems, Proceedings.

SCITEPRESS, 2015. s. 78-82.

Tutkimustuotos >> vertaisarvioitu

**Methodology for energy efficiency assessment in the transport sector for smart cities. /** Mantilla R., M. Fernanda; Nieto

Lee, Angelica; Lastra, Jose L. Martinez; Kotakorpi, Elli.

SMARTGREENS 2015 - 4th International Conference on Smart Cities and Green ICT Systems, Proceedings.

SCITEPRESS, 2015. s. 72-77.

Tutkimustuotos >> vertaisarvioitu

**On constructibility and unconstructibility of LTS operators from other LTS operators. /** Valmari, Antti.

julkaisussa: Acta Informatica, Vuosikerta 52, Nro 2-3, 2015, s. 207-234.

Tutkimustuotos >> vertaisarvioitu

**Parameters affecting the energy performance of the transport sector in smart cities. /** Mantilla R., M. Fernanda; Nieto Lee, Angelica; Lastra, Jose L Martinez.

SMARTGREENS 2015 - 4th International Conference on Smart Cities and Green ICT Systems, Proceedings.

SCITEPRESS, 2015. s. 83-88.

Tutkimustuotos >> vertaisarvioitu

**Roadmap for organic and printed electronics. /** Hecker, Klaus; Clemens, Wolfgang; Lupo, Donald; Breitung, Sven.

Smart Systems Integration 2015 - 9th International Conference and Exhibition on Integration Issues of Miniaturized Systems: MEMS, NEMS, ICs and Electronic Components, SSI 2015. Apprimus Verlag, 2015. s. 125-126.

Tutkimustuotos >> vertaisarvioitu

**Smart home gateway system over Bluetooth low energy with wireless energy transfer capability. /** Galinina, Olga;

Mikhaylov, Konstantin; Andreev, Sergey; Turlikov, Andrey; Koucheryavy, Yevgeni.

julkaisussa: Eurasip Journal on Wireless Communications and Networking, Vuosikerta 2015, Nro 1, 178, 2015.

Tutkimustuotos >> vertaisarvioitu

**Techno-Economical Comparison of Dynamic DAS and Legacy Macrocellular Densification : Capacity and Cost-Efficiency Analysis of Alternative Deployment Solutions for Outdoor Service Provisioning. /** Yunas, Syed Fahad; Valkama, Mikko;

Niemelä, Jarno.

julkaisussa: International Journal of Wireless Information Networks, Vuosikerta 22, Nro 4, 2015, s. 312-326.

Tutkimustuotos >> vertaisarvioitu

**Why do people buy virtual goods? Attitude toward virtual good purchases versus game enjoyment. /** Hamari, Juho.

julkaisussa: International Journal of Information Management, Vuosikerta 35, Nro 3, 2015, s. 299-308.

Tutkimustuotos >> vertaisarvioitu

**Class-Specific Reference Discriminant Analysis With Application in Human Behavior Analysis. /** Iosifidis, Alexandros;

Tefas, Anastasios; Pitas, Ioannis.

julkaisussa: IEEE Transactions on Human-Machine Systems, Vuosikerta 45, Nro 3, 25.12.2014, s. 315-326.

Tutkimustuotos >> vertaisarvioitu

**A conformable dual-band antenna equipped with AMC for WBAN applications. /** Di, Yun Hui; Liu, Xiong Ying; Tentzeris, Manos M.

Proceedings of 3rd Asia-Pacific Conference on Antennas and Propagation, APCAP 2014. Institute of Electrical and Electronics Engineers Inc., 2014. s. 388-391 6992505.

Tutkimustuotos >> vertaisarvioitu

**Goofy Mus, grumpy Mur and dirty Muf : Talking playful seats with personalities.** / Kultima, Annakaisa; Nummenmaa, Timo; Tyni, Heikki; Alha, Kati; Mayra, Frans.

ACE 2014 - 11th Advances in Computer Entertainment Technology Conference, Workshops Proceedings. Vuosikerta 11-14-November-2014 Association for Computing Machinery, 2014. a9.

Tutkimustuotos >> vertaisarvioitu

**Information wall : Evaluation of a gesture-controlled public display.** / Mäkelä, Ville; Heimonen, Tomi; Luhtala, Matti; Turunen, Markku.

ACE 2014 - 11th Advances in Computer Entertainment Technology Conference, Proceedings. Vuosikerta 2014-November Association for Computing Machinery, 2014. s. 228-231.

Tutkimustuotos >> vertaisarvioitu

**RF tag front-end design for uncompromised communication and harvesting.** / Kimionis, John; Tentzeris, Manos M. 2014 IEEE RFID Technology and Applications Conference, RFID-TA 2014. Institute of Electrical and Electronics Engineers Inc., 2014. s. 109-114 6934210.

Tutkimustuotos >> vertaisarvioitu

**Inkjet-printed 'Zero-Power' wireless sensor and power management nodes for IoT and 'Smart Skin' applications.** / Traille, A.; Georgiadis, A.; Collado, A.; Kawahara, Y.; Aubert, H.; Tentzeris, M. M.

2014 31th URSI General Assembly and Scientific Symposium, URSI GASS 2014. Institute of Electrical and Electronics Engineers Inc., 2014. 6929374.

Tutkimustuotos >> vertaisarvioitu

**On-body antennas : Towards wearable intelligence.** / Koski, Karoliina; Moradi, Elham; Bjorninen, Toni; Sydanheimo, Lauri; Rahmat-Samii, Yahya; Ukkonen, Leena.

2014 31th URSI General Assembly and Scientific Symposium, URSI GASS 2014. Institute of Electrical and Electronics Engineers Inc., 2014. 6930122.

Tutkimustuotos >> vertaisarvioitu

**Analysis of source code snapshot granularity levels.** / Vihavainen, Arto; Luukkainen, Matti; Ihantola, Petri.

SIGITE 2014 - Proceedings of the 15th Annual Conference on Information Technology Education. Association for Computing Machinery, Inc, 2014. s. 21-26.

Tutkimustuotos >> vertaisarvioitu

**Automatically detectable indicators of programming assignment difficulty.** / Ihantola, Petri; Sorva, Juha; Vihavainen, Arto.

SIGITE 2014 - Proceedings of the 15th Annual Conference on Information Technology Education. Association for Computing Machinery, Inc, 2014. s. 33-38.

Tutkimustuotos >> vertaisarvioitu

**Effect of feeder cable's phase tolerance on the first sidelobe level of base station antenna.** / He, Yejun; Pan, Zhengzheng; Yang, Jie; Sun, Guiyuan; Tentzeris, Manos M.

IWCMC 2014 - 10th International Wireless Communications and Mobile Computing Conference. Institute of Electrical and Electronics Engineers Inc., 2014. s. 1022-1026 6906495.

Tutkimustuotos >> vertaisarvioitu

**Adaptive sampling for compressed sensing based image compression.** / Zhu, Shuyuan; Zeng, Bing; Gabbouj, Moncef.

2014 IEEE International Conference on Multimedia and Expo (ICME), 14-18 July 2014, Chengdu. 2014.

Tutkimustuotos >> vertaisarvioitu

**Young mobile users : Radical and individual - Not.** / Suominen, Arho; Hyrynsalmi, Sami; Knuutila, Timo.

julkaisussa: Telematics and Informatics, Vuosikerta 31, Nro 2, 05.2014, s. 266-281.

Tutkimustuotos >> vertaisarvioitu

**Patterns for controlling chaos in a startup.** / Eloranta, Veli-Pekka.

VikingPLoP 2014 Proceedings of the 8th Nordic Conference on Pattern Languages of Programs. Vuosikerta 2014-April Association for Computing Machinery, 2014. s. 1-8 (ACM International Conference Proceeding Series).

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Two patterns for minimizing human resources in a startup.** / Leppänen, Marko.

VikingPLoP 2014 Proceedings of the 8th Nordic Conference on Pattern Languages of Programs (VikingPLoP) . ACM, 2014. 4.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Optimizing spatial and temporal reuse in wireless networks by decentralized partially observable markov decision processes.** / Pajarinen, Joni; Hottinen, Ari; Peltonen, Jaakko.

julkaisussa: IEEE Transactions on Mobile Computing, Vuosikerta 13, Nro 4, 6482133, 04.2014, s. 866-879.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**A multi-coil wireless power transfer system utilizing dynamic matching for in-vivo and biomedical applications.** / Bito, J.; Cook, B. S.; Tentzeris, M. M.

2014 Asia-Pacific Microwave Conference Proceedings, APMC 2014. Institute of Electrical and Electronics Engineers Inc., 2014. s. 680-682 7067912.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Radar micro-Doppler feature extraction using the Singular Value Decomposition.** / De Wit, J. J M; Harmanny, R. I A; Molchanov, P.

2014 International Radar Conference, Radar 2014. The Institute of Electrical and Electronics Engineers, Inc., 2014.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Symbol diversification of linux binaries.** / Lauren, Samuel; Maki, Petteri; Rauti, Sampsa; Hosseinzadeh, Shohreh; Hyrynsalmi, Sami; Leppanen, Ville.

2014 World Congress on Internet Security, WorldCIS 2014. Institute of Electrical and Electronics Engineers Inc., 2014. s. 74-79.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Dynamic, data-driven spectrum management in cognitive small cell networks.** / Lee, Chang Shen; Chen, Wei Chong; Bhattacharyya, Shuvra S.; Lee, Ta Sung.

2014, 8th International Conference on Signal Processing and Communication Systems, ICSPCS 2014 - Proceedings. Institute of Electrical and Electronics Engineers Inc., 2014. 7021121.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**'One of our hosts in another country' : Challenges of data geolocation in cloud storage.** / Paladi, Nicolae; Michalas, Antonis

.  
2014 4th International Conference on Wireless Communications, Vehicular Technology, Information Theory and Aerospace and Electronic Systems, VITAE 2014 - Co-located with Global Wireless Summit. Institute of Electrical and Electronics Engineers Inc., 2014. 6934507.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**The lord of the sense : A privacy preserving reputation system for participatory sensing applications.** / Michalas, Antonis; Komninos, Nikos.

2014 IEEE Symposium on Computers and Communications, ISCC 2014 - Proceedings. Institute of Electrical and Electronics Engineers Inc., 2014. 6912480.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**An Unsupervised Audio Segmentation Method Using Bayesian Information Criterion.** / Ozan, Ezgi Can; Tankiz, Seda; Acar, Banu Oskay; Ciloglu, Tolga.

6th International Symposium on Communications, Control & Signal Processing, ISCCSP, 21-23.5.2014, Athens, Greece. NEW YORK : IEEE, 2014. s. 640-643.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Bars, pies, doughnuts & tables - Visualization of proportions.** / Siirtola, Harri.

Proceedings of the 28th International BCS Human Computer Interaction Conference: Sand, Sea and Sky - Holiday HCI, HCI 2014. BCS Learning and Development Ltd., 2014. s. 241-245.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Controlled experiments comparing fault-tree-based safety analysis techniques.** / Mouaffo, Adrien; Taibi, Davide; Jamboti, Kavyashree.

18th International Conference on Evaluation and Assessment in Software Engineering, EASE 2014. Association for Computing Machinery (ACM), 2014. a46.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Impact of received signal on self-interference channel estimation and achievable rates in in-band full-duplex transceivers.** /

Korpi, Dani; Anttila, Lauri; Valkama, Mikko.

2014 48th Asilomar Conference on Signals, Systems and Computers. IEEE COMPUTER SOCIETY PRESS, 2014. s. 975-982.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Inkjet-printed "zero-Power" wireless sensor and power management nodes for IoT and "smart Skin" applications.** /

Tentzeris, Manos M.; Kim, Sangkil; Vyas, Rushi; Traille, Anya; Pons, Patrick; Aubert, Herve; Georgiadis, Apostolos; Collado, Ana.

2014 20th International Conference on Microwaves, Radar and Wireless Communications, MIKON 2014. Institute of Electrical and Electronics Engineers Inc., 2014. 6899902.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Opportunities and Challenges of Mobile Applications as "Tickets-to-Talk": A Scenario-Based User Study.** /

Jarusriboonchai, Pradthana; Olsson, Thomas; Ojala, Jarno; Väänänen-Vainio-Mattila, Kaisa.

Proceedings of the 13th International Conference on Mobile and Ubiquitous Multimedia, MUM2014, November 25-28, 2014, Melbourne, Australia. New York, NY : ACM, 2014. s. 89-97 (International conference on mobile and ubiquitous multimedia).

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Optimization equivalence of divergences improves neighbor embedding.** / Yang, Zhirong; Peltonen, Jaakko; Kaski, Samuel.

31st International Conference on Machine Learning, ICML 2014. Vuosikerta 2 International Machine Learning Society (IMLS), 2014. s. 1808-1839.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Optimized design of multiband and solar rectennas.** / Niotaki, K.; Kim, S.; Giuppi, F.; Collado, A.; Georgiadis, A.; Tentzeris, M. M.

WiSNet 2014 - Proceedings: 2014 IEEE Topical Conference on Wireless Sensors and Sensor Networks. IEEE COMPUTER SOCIETY PRESS, 2014. s. 31-33 6825507.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Overview of electromagnetic transducers with radar interrogation for passive wireless sensors applications.** / Pons, Patrick; Aubert, Herve; Tentzeris, Manos.

2014 20th International Conference on Microwaves, Radar and Wireless Communications, MIKON 2014. Institute of Electrical and Electronics Engineers Inc., 2014. 6899901.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Person de-identification in activity videos.** / Ivasic-Kos, M.; Iosifidis, A.; Tefas, A.; Pitas, I.

2014 37th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2014 - Proceedings. IEEE COMPUTER SOCIETY PRESS, 2014. s. 1294-1299.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Federation lifecycle management incorporating coordination of bio-inspired self-management processes.** / Meskill, Brian; Balasubramaniam, Sasitharan; Brennan, Rob; Feeney, Kevin; Jennings, Brendan.

julkaisussa: JOURNAL OF NETWORK AND SYSTEMS MANAGEMENT, Vuosikerta 21, Nro 4, 12.2013, s. 650-676.  
Tutkimustuotos >> vertaisarvioitu

**Wearable and implantable antennas for wireless body-centric sensing systems.** / Björninen, Toni; Moradi, Elham; Koski, Karoliina; Sydänheimo, Lauri; Ukkonen, Leena; Muller, Rikky; Ledochowitsch, Peter; Rabaey, Jan M.; Rahmat-Samii, Yahya.

BODYNETS 2013 - 8th International Conference on Body Area Networks. ICST, 2013. s. 288.  
Tutkimustuotos >> vertaisarvioitu

**Transforming homo economicus into homo ludens : A field experiment on gamification in a utilitarian peer-to-peer trading service.** / Hamari, Juh.

julkaisussa: Electronic Commerce Research and Applications, Vuosikerta 12, Nro 4, 07.2013, s. 236-245.  
Tutkimustuotos >> vertaisarvioitu

**An evaluation of the virtual curvature with the StickGrip haptic device : A case study.** / Evreinova, Tatiana V.; Evreinov, Grigori; Raisamo, Roope.

julkaisussa: Universal Access in the Information Society, Vuosikerta 12, Nro 2, 06.2013, s. 161-173.  
Tutkimustuotos >> vertaisarvioitu

**'Aie-studio' - A pragmatist aesthetic approach for procedural sound design.** / Luhtala, Matti; Turunen, Markku; Hakulinen, Jaakko; Keskinen, Tuuli.

Proceedings of the 8th Audio Mostly: A Conference on Interaction with Sound, AM 2013 - In Cooperation with ACM SIGCHI. Association for Computing Machinery, 2013. 7.  
Tutkimustuotos >> vertaisarvioitu

**A lightweight many-to-many authentication protocol for near field communications.** / Petrov, Vitaly; Komar, Maria; Koucheryavy, Yevgeni.

Proceedings of the 2013 21st IEEE International Conference on Network Protocols, ICNP 2013. IEEE COMPUTER SOCIETY PRESS, 2013. 6733633.  
Tutkimustuotos >> vertaisarvioitu

**An IPv6-enabled wireless shoe-mounted platform for health-monitoring.** / Mariotti, C.; Lakafosis, V.; Tentzeris, M. M.; Roselli, L.

WiSNet 2013 - Proceedings: 2013 IEEE Topical Conference on Wireless Sensors and Sensor Networks - 2013 IEEE Radio and Wireless Week, RWW 2013. 2013. s. 46-48 6488629.  
Tutkimustuotos >> vertaisarvioitu

**A novel framework for design and implementation of adaptive stream mining systems.** / Sudusinghe, Kishan; Won, Stephen; Van Der Schaar, Mihaela; Bhattacharyya, Shuvra.

2013 IEEE International Conference on Multimedia and Expo, ICME 2013. 2013. 6607565.  
Tutkimustuotos >> vertaisarvioitu

**A system-level design approach for dynamic resource coordination and energy optimization in sensor network platforms.** / Cho, Inkeun; Sudusinghe, Kishan; Shen, Chung Ching; McGee, Jonathan; Bhattacharyya, Shuvra.

Conference Record of the 47th Asilomar Conference on Signals, Systems and Computers. IEEE COMPUTER SOCIETY PRESS, 2013. s. 1436-1441 6810533.  
Tutkimustuotos >> vertaisarvioitu

**Chip-to-package wireless power transfer and its application to mm-Wave antennas and monolithic radiometric receivers.** / Aluigi, Luca; Thai, Trang T.; Tentzeris, Manos M.; Roselli, Luca; Alimenti, Federico.

RSW 2013 - 2013 IEEE Radio and Wireless Symposium - RWW 2013. 2013. s. 202-204 6486688.  
Tutkimustuotos >> vertaisarvioitu

**Classification of small UAVs and birds by micro-Doppler signatures.** / Molchanov, P.; Egiazarian, K.; Astola, J.; Harmanny, R. I A; De Wit, J. J M.

European Microwave Week 2013, EuMW 2013 - Conference Proceedings; EuRAD 2013: 10th European Radar Conference. 2013. s. 172-175.

Tutkimustuotos >> vertaisarvioitu

**Dimensions of hybrid in playful products.** / Tyni, Heikki; Kultima, Annakaisa; Mäyrä, Frans.

Proceedings of the 17th International Academic MindTrek Conference: "Making Sense of Converging Media", MindTrek 2013. 2013. s. 237-244.

Tutkimustuotos >> vertaisarvioitu

**Guest editorial.** / Ellervee, Peeter; Nurmi, Jari.

julkaisussa: Microprocessors and Microsystems, Vuosikerta 37, Nro 4-5, 2013, s. 430-431.

Tutkimustuotos >> vertaisarvioitu

**How to study programming on mobile touch devices - Interactive Python code exercises.** / Ihantola, Petri; Helminen, Juha; Karavirta, Ville.

Proceedings - 13th Koli Calling International Conference on Computing Education Research, Koli Calling 2013. 2013. s. 51-58.

Tutkimustuotos >> vertaisarvioitu

**Improving absorptive capacity in product development with online collaboration tools.** / Peltola, Tero; Mäkinen, Saku J.

Proceedings of the PICMET '13 Conference, "Technology Management in the IT-Driven Services", July 28 - August 1, 2013, San Jose, California, USA. Portland International Center on Management of Engineering and Technology, 2013. s. 235-243 6641711 (Portland International Conference on Management of Engineering and Technology).

Tutkimustuotos >> vertaisarvioitu

**Inkjet-printed RFID-enabled sensors on paper for IoT and "Smart Skin" applications.** / Tentzeris, Manos M.; Kim, Sangkil; Traille, Anya; Aubert, Herve; Yoshihiro, Kawahara; Georgiadis, Apostolos; Collado, Ana.

ICECom 2013 - Conference Proceedings: 21st International Conference on Applied Electromagnetics and Communications. IEEE COMPUTER SOCIETY PRESS, 2013. 6684749.

Tutkimustuotos >> vertaisarvioitu

**Inkjet-printed wearable microwave components for biomedical applications.** / Kim, Sangkil; Riccardo, Moro; Bozzi, Maurizio; Nikolaou, Symeon; Tentzeris, Manos M.

2013 7th European Conference on Antennas and Propagation, EuCAP 2013. 2013. s. 1926-1929 6546625.

Tutkimustuotos >> vertaisarvioitu

**Mixed reality with multimodal head-mounted pico projector.** / Sand, Antti; Rakkolainen, Ismo.

Proceedings of the Virtual Reality International Conference on Laval Virtual, VRIC 2013. 2013. 14.

Tutkimustuotos >> vertaisarvioitu

**Mobile interaction with elevators - Improving people flow in complex buildings.** / Turunen, Markku; Kuoppala, Hannu; Kangas, Sanna; Hella, Juho; Miettinen, Toni; Heimonen, Tomi; Keskinen, Tuuli; Hakulinen, Jaakko; Raisamo, Roope.

Proceedings of the 17th International Academic MindTrek Conference: "Making Sense of Converging Media", MindTrek 2013. 2013. s. 43-50.

Tutkimustuotos >> vertaisarvioitu

**On the optimal class representation in linear discriminant analysis.** / Iosifidis, Alexandros; Tefas, Anastasios; Pitas, Ioannis.

julkaisussa: IEEE Transactions on Neural Networks and Learning Systems, Vuosikerta 24, Nro 9, 2013, s. 1491-1497.

Tutkimustuotos >> vertaisarvioitu

**Orientation insensitive power transfer by magnetic resonance for mobile devices.** / Jonah, Olutola; Georgakopoulos, Stavros V.; Tentzeris, Manos M.

2013 IEEE Wireless Power Transfer, WPT 2013. 2013. s. 5-8 6556868.

Tutkimustuotos >> vertaisarvioitu

**Reading on-screen text with gaze-based auto-scrolling.** / Sharmin, Selina; Špakov, Oleg; Rähkä, Kari Jouko.

Proceedings of the 2013 Conference on Eye Tracking South Africa, ETSA 2013. 2013. s. 24-31.

Tutkimustuotos >> vertaisarvioitu

**Recording and analyzing in-browser programming sessions.** / Helminen, Juha; Ihanola, Petri; Karavirta, Ville.  
Proceedings - 13th Koli Calling International Conference on Computing Education Research, Koli Calling 2013. 2013. s. 13-22.

Tutkimustuotos >> vertaisarvioitu

**Spatial control framework for interactive lighting.** / Hakulinen, Jaakko; Turunen, Markku; Heimonen, Tomi.  
Proceedings of the 17th International Academic MindTrek Conference: "Making Sense of Converging Media", MindTrek 2013. 2013. s. 59-66.

Tutkimustuotos >> vertaisarvioitu

**Virtualizing power cords by wireless power transmission and energy harvesting.** / Kawahara, Yoshihiro; Wei, Wei; Narusue, Yoshiaki; Shigeta, Ryo; Asami, Tohru; Tentzeris, Manos.  
RSW 2013 - 2013 IEEE Radio and Wireless Symposium - RWW 2013. 2013. s. 37-39 6486633.

Tutkimustuotos >> vertaisarvioitu

**Wireless remote sensing based on RADAR cross section variability measurement of passive electromagnetic sensors.** / Aubert, Herve; Pons, Patrick; Tentzeris, Manos.  
2013 7th European Conference on Antennas and Propagation, EuCAP 2013. 2013. s. 1714-1717 6546571.

Tutkimustuotos >> vertaisarvioitu

**Countering bioterrorism : Why smart buildings should have a code of ethics.** / Borrión, Herve; Mitchener-Nissen, Timothy; Taylor, Jonathon; Lai, Ka Man.  
2012. 68-75 Julkaisun esittämispäikkä: 2012 European Intelligence and Security Informatics Conference, EISIC 2012, Odense, Tanska.

Tutkimustuotos: Konferenssiesitys, posterit tai abstraktit >

**Enzyme-based circuit design for nano-scale computing.** / Ivanov, S.; Botvich, D.; Balasubramaniam, S.  
julkaisussa: Nano Communication Networks, Vuosikerta 3, Nro 3, 09.2012, s. 168-174.

Tutkimustuotos >> vertaisarvioitu

**Opportunistic routing through conjugation in bacteria communication nanonetwork.** / Lio', Pietro; Balasubramaniam, Sasitharan.

julkaisussa: Nano Communication Networks, Vuosikerta 3, Nro 1, 03.2012, s. 36-45.

Tutkimustuotos >> vertaisarvioitu

**Barriers to task-based information access in molecular medicine.** / Kumpulainen, Sanna; Järvelin, Kalervo.  
julkaisussa: JOURNAL OF THE ASSOCIATION FOR INFORMATION SCIENCE AND TECHNOLOGY, Vuosikerta 63, Nro 1, 01.2012, s. 86-97.

Tutkimustuotos >> vertaisarvioitu

**Body area nanonetworks with molecular communications in nanomedicine.** / Atakan, Baris; Akan, Ozgur B.; Balasubramaniam, Sasitharan.

julkaisussa: IEEE Communications Magazine, Vuosikerta 50, Nro 1, 6122529, 01.2012, s. 28-34.

Tutkimustuotos >> vertaisarvioitu

**A 927 MHz solar powered active antenna oscillator beacon signal generator.** / Giuppi, Francesco; Georgiadis, Apostolos; Via, Selva; Collado, Ana; Vyas, Rushi; Tentzeris, Manos M.; Bozzi, Maurizio.

RWW 2012 - Proceedings of the 2012 IEEE Topical Conference on Wireless Sensors and Sensor Networks, WiSNet 2012. 2012. s. 1-4 6172144.

Tutkimustuotos >> vertaisarvioitu

**Analysis of block-aware peer adaptations in substream-based P2P.** / Kulatunga, Chamil; Botvich, Dmitri; Balasubramaniam, Sasitharan; Donnelly, William.

Broadband Communications, Networks, and Systems - 7th International ICST Conference, BROADNETS 2010, Revised Selected Papers. Vuosikerta 66 LNICST 2012. s. 14-27 (Lecture Notes of the Institute for Computer Sciences, Social-

Informatics and Telecommunications Engineering; Vuosikerta 66 LNICST).

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Analysis of second UE DRX cycle for enhanced CELL FACH 3GPP UTRAN.** / Andreev, Sergey; Pustovalov, Eugeny; Sayenko, Alexander; Turlikov, Andrey.

4th International Congress on Ultra Modern Telecommunications and Control Systems 2012, ICUMT 2012. 2012. s. 7-11 6459772.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Application of genetic algorithm to maximise clean energy usage for data centres.** / Carroll, Raymond; Balasubramaniam, Sasitharan; Botvich, Dmitri; Donnelly, William.

Bio-Inspired Models of Network, Information, and Computing Systems - 5th International ICST Conference, BIONETICS 2010, Revised Selected Papers. Vuosikerta 87 LNICST 2012. s. 565-580 (Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering; Vuosikerta 87 LNICST).

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Briefing news reporting with mobile assignments - Perceptions, needs and challenges.** / Väättäjä, Heli; Egglestone, Paul.

Proceedings of the ACM 2012 conference on Computer Supported Cooperative Work CSCW'12 Seattle, WA, USA, February 11-15, 2012. New York, NY : ACM, 2012. s. 485-494 (ACM Conference on Computer Supported Cooperative Work).

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Deploying adaptation in rights exporting.** / Lu, Wenhui; Zhang, Zheyang; Nummenmaa, Jyrki.

2012 IEEE Consumer Communications and Networking Conference, CCNC'2012. 2012. s. 522-526 6181006.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Design of a miniaturized RFID antenna integrated with sensor for wireless agricultural applications.** / Harrabi, Amal; Gharsallah, Ali; Tentzeris, Manos M.

Proceedings of 6th European Conference on Antennas and Propagation, EuCAP 2012. 2012. s. 3483-3486 6206699.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**fs-PGBR : A scalable and delay sensitive cloud routing protocol.** / Mineraud, Julien; Balasubramaniam, Sasitharan;

Kangasharju, Jussi; Donnelly, William.

SIGCOMM'12 - Proceedings of the ACM SIGCOMM 2012 Conference Applications, Technologies, Architectures, and Protocols for Computer Communication. 2012. s. 301-302.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**FS-PGBR : A scalable and delay sensitive cloud routing protocol.** / Mineraud, Julien; Donnelly, William; Balasubramaniam, Sasitharan; Kangasharju, Jussi.

Proceedings of the ACM SIGCOMM 2012 and Best Papers of the Co-located Workshops. Vuosikerta 42 4. toim. 2012. s. 301-302.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Inkjet-printed monopole antennas for enhanced-range WBAN and wearable biomonitring application.** / Kim, Sangkil;

Kawahara, Yoshihiro; Tentzeris, Manos M.

MobileHealth'12 - Proceedings of the 2nd ACM International Workshop on Pervasive Wireless Healthcare. 2012. s. 33-38.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Inkjet-printed RFIDs for wireless sensing and anti-counterfeiting.** / Tentzeris, M. M.; Vyas, Rushi; Lakafosis, Vasileios;

Traille, Anya; Lee, Hoseon; Gebara, Edward; Marroncelli, Mauro.

Proceedings of 6th European Conference on Antennas and Propagation, EuCAP 2012. 2012. s. 3481-3482 6206654.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Location-based crowdsourcing of hyperlocal news - Dimensions of participation preferences.** / Väättäjä, Heli; Vainio, Teija; Sirkkunen, Esa.

Proceedings of the 17th ACM international conference on Supporting group work, GROUP '12, October 28-31, 2012, Sanibel Island, FL, USA. New York, NY : ACM, 2012. s. 85-94 (ACM International Conference on Supporting Group

Work).

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Multiobjective TDMA optimization for neuron-based molecular communication.** / Suzuki, Junichi; Balasubramaniam, Sasitharan; Prina-Mello, Adriele.

BODYNETS 2012 - 7th International Conference on Body Area Networks. ICST, 2012.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Multipacket reception MAC schemes for the RFID EPC Gen2 protocol.** / De Donno, Danilo; Tarricone, Luciano; Lakafosis, Vasileios; Tentzeris, Manos M.

2012 International Symposium on Wireless Communication Systems, ISWCS 2012 - Proceedings. 2012. s. 311-315 6328380.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Partial expansion graphs : Exposing parallelism and dynamic scheduling opportunities for DSP applications.** / Zaki, George F.; Plishker, William; Bhattacharyya, Shuvra S.; Fruth, Frank.

Proceedings - 2012 IEEE 23rd International Conference on Application-Specific Systems, Architectures and Processors, ASAP 2012. 2012. s. 86-93 6341457.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Power allocation in multi-node cooperative network in Rician fading channels.** / Fikadu, Mulugeta K.; Elmusrati, Mohammed; Virrankoski, Reino.

2012 IEEE 8th International Conference on Wireless and Mobile Computing, Networking and Communications, WiMob 2012. 2012. s. 496-501 6379119.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**SiMPE : 7th Workshop on speech and sound in mobile and pervasive environments.** / Nanavati, Amit Anil; Rajput, Nitendra; Rudnicky, Alexandar I.; Turunen, Markku; Sandholm, Thomas; Munteanu, Cosmin; Penn, Gerald.

MobileHCI'12 - Companion Proceedings of the 14th International Conference on Human Computer Interaction with Mobile Devices and Services. 2012. s. 251-253.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**The role of the propagation environment in RSS-based indoor positioning using mass market devices.** / Pelosi, Mauro; Pedersen, Gert F.; Della Rosa, Francescantonio; Nurmi, Jari.

LAPC 2012 - 2012 Loughborough Antennas and Propagation Conference. 2012.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Towards a Smart Wireless Integrated Module (SWIM) on flexible organic substrates using inkjet printing technology for wireless sensor networks.** / Palacios, Sebastian; Rida, Amin; Kim, Sangkil; Nikolaou, Symeon; Elia, Samuel; Tentzeris, Manos M.

2012 IEEE International Workshop on Antenna Technology, iWAT 2012. 2012. s. 20-23 6178388.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Wearable bi monitoring monopole antennas using inkjet printed electromagnetic band gap structures.** / Kim, Sangkil; Tentzeris, Manos M.; Nikolaou, Symeon.

Proceedings of 6th European Conference on Antennas and Propagation, EuCAP 2012. 2012. s. 181-184 6206577.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Wireless sensing and identification of passive electromagnetic sensors based on millimetre-wave FMCW RADAR.** /

Aubert, H.; Chebila, F.; Jatlaoui, M.; Thai, T.; Hallil, H.; Traille, A.; Bouaziz, S.; Rifai, A.; Pons, P.; Menini, P.; Tentzeris, M. 2012 IEEE International Conference on RFID-Technologies and Applications, RFID-TA 2012. 2012. s. 398-403 6404554.

[Tutkimustuotos](#) > > [vertaisarvioitu](#)

**Wireless sensor network nodes for RTLS, bi monitoring, and authentication applications.** / Lakafosis, Vasileios; Vyas, Rushi; Mukala, Vidyasagar; Traille, Anya; Tentzeris, M. M.

Proceedings of 6th European Conference on Antennas and Propagation, EuCAP 2012. 2012. s. 62-63 6206655.

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**Wireless strain and crack sensing using a folded patch antenna.** / Yi, Xiaohua; Cho, Chunhee; Fang, Chia Hung; Cooper, James; Lakafosis, Vasileios; Vyas, Rushi; Wang, Yang; Leon, Roberto T.; Tentzeris, Manos M.  
Proceedings of 6th European Conference on Antennas and Propagation, EuCAP 2012. 2012. s. 1678-1681 6206690.  
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