

Richard, G. ; Virtanen, T. ; Bello, J. P. ; Ono, N. ; Glotin, H. / **Introduction to the Special Section on Sound Scene and Event Analysis**. In: IEEE/ACM Transactions on Audio Speech and Language Processing. 2017 ; Vol. 25, No. 6. pp. 1169-1171.

Pirhonen, Mikko ; Peltokangas, Mikko ; Vehkaoja, Antti. / **Acquiring respiration rate from photoplethysmographic signal by recursive bayesian tracking of intrinsic modes in time-frequency spectra**. In: Sensors. 2018 ; Vol. 18, No. 6.

Koivumäki, Janne ; Mattila, Jouni. / **Adaptive and nonlinear control of discharge pressure for variable displacement axial piston pumps**. In: Journal of Dynamic Systems, Measurement and Control: Transactions of the ASME. 2017 ; Vol. 139, No. 10.

Acar, Erman ; Peltonen, Sari ; Ruotsalainen, Ulla. / **Adaptive multiresolution method for MAP reconstruction in electron tomography**. In: Ultramicroscopy. 2016 ; Vol. 170. pp. 24-34.

Kerst, Thomas ; Malmbeck, Rikard ; Ial Banik, Nidhu L. ; Toivonen, Juha. / **Alpha radiation-induced luminescence by am-241 in aqueous nitric acid solution**. In: Sensors (Switzerland). 2019 ; Vol. 19, No. 7.

Shigeta, Ryo ; Sasaki, Tatsuya ; Quan, Duong Minh ; Kawahara, Yoshihiro ; Vyas, Rushi J. ; Tentzeris, Manos M. ; Asami, Tohru. / **Ambient rf energy harvesting sensor device with capacitor-leakage-aware duty cycle control**. In: IEEE Sensors Journal. 2013 ; Vol. 13, No. 8. pp. 2973-2983.

Korobko, D. A. ; Okhotnikov, O. G. ; Zolotovskii, I. O. / **Amplifier similariton laser with extra-broad bandwidth output pulse**. In: Laser Physics Letters. 2016 ; Vol. 13, No. 3.

Mehrang, Saeed ; Pietilä, Julia ; Korhonen, Ilkka. / **An activity recognition framework deploying the random forest classifier and a single optical heart rate monitoring and triaxial accelerometer wrist-band**. In: Sensors. 2018 ; Vol. 18, No. 2.

Drgas, Szymon ; Virtanen, Tuomas ; Lücke, Jörg ; Hurmalainen, Antti. / **Binary Non-Negative Matrix Deconvolution for Audio Dictionary Learning**. In: IEEE/ACM Transactions on Audio Speech and Language Processing. 2017 ; Vol. 25, No. 8. pp. 1644-1656.

Kekonen, Atte ; Bergelin, Mikael ; Johansson, Max ; Kumar Joon, Narender ; Bobacka, Johan ; Viik, Jari. / **Bioimpedance Sensor Array for Long-Term Monitoring of Wound Healing from Beneath the Primary Dressings and Controlled Formation of H<sub>2</sub>O<sub>2</sub> Using Low-Intensity Direct Current**. In: Sensors. 2019 ; Vol. 19, No. 11.

Barker, Tom ; Virtanen, Tuomas. / **Blind Separation of Audio Mixtures Through Nonnegative Tensor Factorization of Modulation Spectrograms**. In: Ieee-Acm transactions on audio speech and language processing. 2016 ; Vol. 24, No. 12. pp. 2377-2389.

He, Han ; Chen, Xiaochen ; Mehmood, Adnan ; Raivio, Leevi ; Huttunen, Heikki ; Raunonen, Pasi ; Virkki, Johanna. / **ClothFace : A Batteryless RFID-Based Textile Platform for Handwriting Recognition**. In: Sensors (Basel, Switzerland). 2020 ; Vol. 20, No. 17.

Baby, Deepak ; Virtanen, Tuomas ; Gemmeke, Jort F. ; Van hamme, Hugo. / **Coupled dictionaries for exemplar-based speech enhancement and automatic speech recognition**. In: Ieee-Acm transactions on audio speech and language processing. 2015 ; Vol. 23, No. 11. pp. 1788-1799.

Vikholm-Lundin, Inger ; Auer, Sanna ; Paakkunainen, Maija ; Määttä, Juha A E ; Munter, Tony ; Leppiniemi, Jenni ; Hytönen, Vesa P. ; Tappura, Kirsi. / **Cysteine-tagged chimeric avidin forms high binding capacity layers directly on gold**. In: Sensors and Actuators B: Chemical. 2012 ; Vol. 171-172. pp. 440-448.

Thai, Trang T. ; Mehdi, Jatlaoui M. ; Chebila, Franck ; Aubert, Hervé ; Pons, Patrick ; Dejean, Gerald R. ; Tentzeris, Manos M. ; Plana, Robert. / **Design and development of a novel passive wireless ultrasensitive RF temperature transducer for remote sensing**. In: IEEE Sensors Journal. 2012 ; Vol. 12, No. 9. pp. 2756-2766.

Rajala, Satu ; Mattila, Raisa ; Kaartinen, Ilkka ; Leikkala, Jukka. / **Designing, Manufacturing and Testing of a Piezoelectric Polymer Film In-Sole Sensor for Plantar Pressure Distribution Measurements.** In: IEEE Sensors Journal. 2017 ; Vol. 17, No. 20. pp. 6798-6805.

Mesaros, Annamaria ; Heittola, Toni ; Benetos, Emmanouil ; Foster, Peter ; Lagrange, Mathieu ; Virtanen, Tuomas ; Plumbley, Mark D. / **Detection and Classification of Acoustic Scenes and Events : Outcome of the DCASE 2016 Challenge** . In: IEEE/ACM Transactions on Audio Speech and Language Processing. 2018 ; Vol. 26, No. 2. pp. 379-393.

Vikholm-Lundin, Inger ; Auer, Sanna ; Hellgren, Ann Charlotte. / **Detection of 3,4-methylenedioxymethamphetamine (MDMA, ecstasy) by displacement of antibodies.** In: Sensors and Actuators B: Chemical. 2011 ; Vol. 156, No. 1. pp. 28-34.

Tzankiozis, T. ; Ntziachristos, L. ; Amanatidis, S. ; Niemelä, V. ; Ukkonen, A. ; Samaras, Z. / **Development of a constant dilution sampling system for particulate and gaseous pollutant measurements.** In: Measurement Science and Technology. 2013 ; Vol. 24, No. 8.

Mariotti, Chiara ; Su, Wenjing ; Cook, Benjamin S. ; Roselli, Luca ; Tentzeris, Manos M. / **Development of Low Cost, Wireless, Inkjet Printed Microfluidic RF Systems and Devices for Sensing or Tunable Electronics.** In: IEEE Sensors Journal. 2015 ; Vol. 15, No. 6. pp. 3156-3163.

Ometov, Aleksandr ; Bezzateev, Sergey ; Voloshina, Natalia ; Masek, Pavel ; Komarov, Mikhail. / **Environmental monitoring with distributed mesh networks : An overview and practical implementation perspective for urban scenario.** In: Sensors (Switzerland). 2019 ; Vol. 19, No. 24.

Virtanen, Juhani ; Somppi, Sanni ; Törnqvist, Heini ; Jeyhani, Vala ; Fiedler, Patrique ; Gizatdinova, Yulia ; Majaranta, Päivi ; Väättäjä, Heli ; Cardó, Anna Valldeoriola ; Leikkala, Jukka ; Tuukkanen, Sampo ; Surakka, Veikko ; Vainio, Outi ; Vehkaoja, Antti. / **Evaluation of dry electrodes in canine heart rate monitoring.** In: Sensors. 2018 ; Vol. 18, No. 6.

Mäkinen, Jari ; Piché, Robert ; Ellman, Asko. / **Fluid Transmission Line Modeling Using a Variational Method.** In: Journal of Dynamic Systems, Measurement and Control: Transactions of the ASME. 2000 ; Vol. 122, No. 1. pp. 153-162.

Välimäki, Hannu ; Verho, Jarmo ; Kreutzer, Joose ; Kattiparambil Rajan, Dhanesh ; Ryyänen, Tomi ; Pekkanen-Mattila, Mari ; Ahola, Antti ; Tappura, Kirsi ; Kallio, Pasi ; Leikkala, Jukka. / **Fluorimetric oxygen sensor with an efficient optical read-out for in vitro cell models.** In: Sensors and Actuators B: Chemical. 2017 ; Vol. 249. pp. 738-746.

Tan, Clarence ; Ceballos, Gerardo ; Kasabov, Nikola ; Subramaniam, Narayan Puthanmadam. / **Fusionsense : Emotion classification using feature fusion of multimodal data and deep learning in a brain-inspired spiking neural network.** In: Sensors (Switzerland). 2020 ; Vol. 20, No. 18.

Kooser, Kuno ; Kivimäki, Antti ; Turunen, Paavo ; Pärna, Rainer ; Reisberg, Liis ; Kirm, Marco ; Valden, Mika ; Huttula, Marko ; Kukkk, Edwin. / **Gas-phase endstation of electron, ion and coincidence spectroscopies for diluted samples at the FinEstBeAMS beamline of the MAX IV 1.5 GeV storage ring.** In: JOURNAL OF SYNCHROTRON RADIATION. 2020 ; Vol. 27. pp. 1080-1091.

Ozby, E. ; Bulu, I. ; Aydin, K. ; Caglayan, H. ; Alici, K. B. ; Guven, K. / **Highly directive radiation and negative refraction using photonic crystals.** In: Laser Physics. 2005 ; Vol. 15, No. 2. pp. 217-224.

Pajukoski, H. ; Näkki, J. ; Thieme, S. ; Tuominen, J. ; Nowotny, S. ; Vuoristo, P. / **High performance corrosion resistant coatings by novel coaxial cold- and hot-wire laser cladding methods.** In: Journal of Laser Applications. 2016 ; Vol. 28, No. 1.

Makkonen, J. ; Marsh, L. A. ; Vihonen, J. ; Järvi, A. ; Armitage, D. W. ; Visa, A. ; Peyton, A. J. / **Improving reliability for classification of metallic objects using a WTMD portal.** In: Measurement Science and Technology. 2015 ; Vol. 26, No. 10.

Gao, Haitao ; Tao, Jin ; Dehmer, Matthias ; Emmert-Streib, Frank ; Sun, Qinglin ; Chen, Zengqiang ; Xie, Guangming ; Zhou, Quan. / **In-flight wind field identification and prediction of parafoil systems**. In: Applied Sciences (Switzerland). 2020 ; Vol. 10, No. 6.

Vyas, Rushi ; Lakafosis, Vasileios ; Lee, Hoseon ; Shaker, George ; Yang, Li ; Orecchini, Giulia ; Traille, Anya ; Tentzeris, Manos M. ; Roselli, Luca. / **Inkjet printed, self powered, wireless sensors for environmental, gas, and authentication-based sensing**. In: IEEE Sensors Journal. 2011 ; Vol. 11, No. 12. pp. 3139-3152.

Vihonen, Juho ; Mattila, Jouni ; Visa, Ari. / **Joint-Space Kinematic Model for Gravity-Referenced Joint Angle Estimation of Heavy-Duty Manipulators**. In: IEEE Transactions on Instrumentation and Measurement. 2017 ; Vol. 66, No. 12. pp. 3280-3288.

Kim, Sangkil ; Kawahara, Yoshihiro ; Georgiadis, Apostolos ; Collado, Ana ; Tentzeris, Manos M. / **Low-cost inkjet-printed fully passive RFID tags for calibration-free capacitive/haptic sensor applications**. In: IEEE Sensors Journal. 2015 ; Vol. 15, No. 6. pp. 3135-3145.

Rinne, Jukka ; Keskinen, Jari ; Berger, Paul R. ; Lupo, Donald ; Valkama, Mikko. / **M2M Communication Assessment in Energy-Harvesting and Wake-Up Radio Assisted Scenarios Using Practical Components**. In: Sensors (Basel, Switzerland). 2018 ; Vol. 18, No. 11.

Rajala, Satu ; Paajanen, Mika ; Lekkala, Jukka. / **Measurement of sensitivity distribution map of a ferroelectric polymer film**. In: IEEE Sensors Journal. 2016 ; Vol. 16, No. 23. pp. 8517-8522.

Carlie, N. ; Anheier, N. C. ; Qiao, H. A. ; Bernacki, B. ; Phillips, M. C. ; Petit, L. ; Musgraves, J. D. ; Richardson, K. / **Measurement of the refractive index dispersion of  $As_2Se_3$  bulk glass and thin films prior to and after laser irradiation and annealing using prism coupling in the near- and mid-infrared spectral range**. In: Review of Scientific Instruments. 2011 ; Vol. 82, No. 5.

Ali, Ihtisham ; Suominen, Olli ; Gotchev, Atanas ; Morales, Emilio Ruiz. / **Methods for simultaneous robot-world-hand-eye calibration : A comparative study**. In: Sensors (Switzerland). 2019 ; Vol. 19, No. 12.

Mesaros, Annamaria ; Heittola, Toni ; Virtanen, Tuomas. / **Metrics for polyphonic sound event detection**. In: Applied Sciences. 2016 ; Vol. 6, No. 6.

Viljanen, Jan ; Sun, Zhiwei ; Alwahabi, Zeyad T. / **Microwave assisted laser-induced breakdown spectroscopy at ambient conditions**. In: Spectrochimica Acta Part B: Atomic Spectroscopy. 2016 ; Vol. 118. pp. 29-36.

Valkealahti, S. ; Nieminen, R. M. / **Molecular dynamics simulation of the damage production in Al (110) surface with slow argon ions**. In: Nuclear Inst. and Methods in Physics Research, B. 1986 ; Vol. 18, No. 1-6. pp. 365-369.

Uddin, Rokon ; Nur-E-Habiba, N. ; Rena, Graham ; Hwu, En Te ; Boisen, Anja. / **New Evidence for the Mechanism of Action of a Type-2 Diabetes Drug Using a Magnetic Bead-Based Automated Biosensing Platform**. In: ACS Sensors. 2017 ; Vol. 2, No. 9. pp. 1329-1336.

Zakrzewski, Mari ; Vehkaoja, Antti ; Joutsen, Atte S. ; Palovuori, Karri T. ; Vanhala, Jukka J. / **Noncontact Respiration Monitoring during Sleep with Microwave Doppler Radar**. In: IEEE Sensors Journal. 2015 ; Vol. 15, No. 10. pp. 5683-5693.

Salpavaara, Timo ; Hänninen, Alekski ; Antniemi, Anni ; Lekkala, Jukka ; Kellomäki, Minna. / **Non-destructive and wireless monitoring of biodegradable polymers**. In: Sensors and Actuators B: Chemical. 2017 ; Vol. 251. pp. 1018-1025.

Sanginés, R. ; Contreras, V. ; Sobral, H. ; Robledo-Martinez, A. / **Optimal emission enhancement in orthogonal double-pulse laser-induced breakdown spectroscopy**. In: Spectrochimica Acta Part B: Atomic Spectroscopy. 2015 ; Vol. 110. pp. 139-145.

Chen, Xiaochen ; He, Han ; Gou, Meinan ; Yang, Yunshan ; Sydänheimo, Lauri ; Ukkonen, Leena ; Virkki, Johanna. / **Passive Moisture Sensor Based on Conductive and Water-Soluble Yarns**. In: IEEE Sensors Journal. 2020 ; Vol. 20, No. 18. pp. 10989-10995.

Salpavaara, Timo ; Järveläinen, Matti ; Seppälä, Sari ; Yli-Hallila, Teemu ; Verho, Jarmo ; Vilko, Matti ; Leikkala, Jukka ; Levänen, Erkki. / **Passive resonance sensor based method for monitoring particle suspensions**. In: Sensors and Actuators B: Chemical. 2015 ; Vol. 219. pp. 324-330.

Selvan, N. Tamil ; Eshwaran, S. B. ; Das, A. ; Stöckelhuber, K. W. ; Wießner, S. ; Pötschke, P. ; Nando, G. B. ; Chervanyov, A. I. ; Heinrich, G. / **Piezoresistive natural rubber-multiwall carbon nanotube nanocomposite for sensor applications**. In: Sensors and Actuators, A: Physical. 2016 ; Vol. 239. pp. 102-113.

Gumenyuk, R. ; Okhotnikov, O. G. / **Polarization control of the bound state of a vector soliton**. In: Laser Physics Letters. 2013 ; Vol. 10, No. 5. pp. 1-3.

Ometov, Aleksandr ; Bezzateev, Sergey ; Davydov, Vadim ; Shchesniak, Anna ; Masek, Pavel ; Lohan, Elena Simona ; Koucheryavy, Yevgeni. / **Positioning information privacy in intelligent transportation systems : An overview and future perspective**. In: Sensors. 2019 ; Vol. 19, No. 7.

Valkealahti, S. ; Schou, J. ; Sørensen, H. ; Nieminen, R. M. / **Ranges and stopping power of KeV electrons in the solid hydrogens**. In: Nuclear Inst. and Methods in Physics Research, B. 1988 ; Vol. 34, No. 3. pp. 321-331.

Auer, Sanna ; Koho, Tiia ; Uusi-Kerttula, Hanni ; Vesikari, Timo ; Blazevic, Vesna ; Hytönen, Vesa P. / **Rapid and sensitive detection of norovirus antibodies in human serum with a bilayer interferometry biosensor**. In: Sensors and Actuators B: Chemical. 2015 ; Vol. 221. pp. 507-514.

Borges, Lucas R. ; Azzari, Lucio ; Bakic, Predrag R. ; Maidment, Andrew D.A. ; Vieira, Marcelo A.C. ; Foi, Alessandro. / **Restoration of low-dose digital breast tomosynthesis**. In: Measurement Science and Technology. 2018 ; Vol. 29, No. 6.

Cook, Benjamin S. ; Vyas, Rushi ; Kim, Sangkil ; Thai, Trang ; Le, Taoran ; Traille, Anya ; Aubert, Herve ; Tentzeris, Manos M. / **RFID-based sensors for zero-power autonomous wireless sensor networks**. In: IEEE Sensors Journal. 2014 ; Vol. 14, No. 8. pp. 2419-2431.

Gonçalves, Ricardo ; Rima, Sergi ; Magueta, Roberto ; Pinho, Pedro ; Collado, Ana ; Georgiadis, Apostolos ; Hester, Jimmy ; Carvalho, Nuno Borges ; Tentzeris, Manos M. / **RFID-Based Wireless Passive Sensors Utilizing Cork Materials**. In: IEEE Sensors Journal. 2015 ; Vol. 15, No. 12. pp. 7242-7251.

Sigmund, P. ; Robinson, M. T. ; Baskes, M. I. ; Hautala, M. ; Cui, F. Z. ; Eckstein, W. ; Yamamura, Y. ; Hosaka, S. ; Ishitani, T. ; Shulga, V. I. ; Harrison, D. E. ; Chakarov, I. R. ; Karpuzo, D. S. ; Kawatoh, E. ; Shimizu, R. ; Valkealahti, S. ; Nieminen, R. M. ; Betz, G. ; Husinsky, W. ; Shapiro, M. H. ; Vicaneck, M. ; Urbassek, H. M. / **Round Robin computer simulation of ejection probability in sputtering**. In: Nuclear Inst. and Methods in Physics Research, B. 1989 ; Vol. 36, No. 2. pp. 110-123.

Koivikko, Anastasia ; Raei, Ehsan Sadeghian ; Mosallaei, Mahmoud ; Mäntysalo, Matti ; Sariola, Veikko. / **Screen-printed curvature sensors for soft robots**. In: IEEE Sensors Journal. 2018 ; Vol. 18, No. 1. pp. 223-230.

Ometov, Aleksandr ; Solomitskii, Dmitrii ; Olsson, Thomas ; Bezzateev, Sergey ; Shchesniak, Anna ; Andreev, Sergey ; Harju, Jarmo ; Koucheryavy, Yevgeni. / **Secure and connected wearable intelligence for content delivery at a mass event : A case study**. In: Journal of Sensor and Actuator Networks. 2017 ; Vol. 6, No. 2.

Yi, Xiaohua ; Wu, Terence ; Wang, Yang ; Tentzeris, Manos M. / **Sensitivity modeling of an RFID-based strain-sensing antenna with dielectric constant change**. In: IEEE Sensors Journal. 2015 ; Vol. 15, No. 11. pp. 6147-6155.

Antink, Christoph Hoog ; Pirhonen, Mikko ; Väättäjä, Heli ; Somppi, Sanni ; Tornqvist, Heini ; Cardo, Anna ; Teichmann, Daniel ; Vainio, Outi ; Surakka, Veikko ; Vehkaoja, Antti. / **Sensor Fusion for Unobtrusive Respiratory Rate Estimation in Dogs**. In: IEEE Sensors Journal. 2019 ; Vol. 19, No. 16. pp. 7072-7081.

Nikunen, Joonas ; Diment, Aleksandr ; Virtanen, Tuomas. / **Separation of Moving Sound Sources Using Multichannel NMF and Acoustic Tracking**. In: IEEE/ACM Transactions on Audio Speech and Language Processing. 2018 ; Vol. 26, No. 2. pp. 281-295.

Viljanen, Jan ; Kalmankoski, Kim ; Contreras, Victor ; Sarin, Jaakko K. ; Sorvajärvi, Tapio ; Kinnunen, Hanna ; Enestam, Sonja ; Toivonen, Juha. / **Sequential Collinear Photofragmentation and Atomic Absorption Spectroscopy for Online Laser Monitoring of Triatomic Metal Species**. In: Sensors (Basel, Switzerland). 2020 ; Vol. 20, No. 2.

Shevkunov, Igor ; Katkovnik, Vladimir ; Claus, Daniel ; Pedrini, Giancarlo ; Petrov, Nikolay V. ; Egiazarian, Karen. / **Spectral object recognition in hyperspectral holography with complex-domain denoising**. In: Sensors (Switzerland). 2019 ; Vol. 19, No. 23.

Tomkowski, Robert ; Sorsa, Aki ; Santa-Aho, Suvi ; Lundin, Per ; Vippola, Minnamari. / **Statistical evaluation of barkhausen noise testing (BNT) for ground samples**. In: Sensors (Switzerland). 2019 ; Vol. 19, No. 21.

Mathlouthi, Maha ; Valkonen, Arto ; Rzaigui, Mohamed ; Smirani, Wajda. / **Structural characterization, spectroscopic, thermal, AC conductivity and dielectric properties and antimicrobial studies of  $(C_8H_{12}N)_2[SnCl_6]$** . In: PHASE TRANSITIONS. 2017 ; Vol. 90, No. 4. pp. 399-414.

Iliopoulos, Konstantinos ; Czaplicki, Robert ; Ouazzani, Hasnaa El ; Balandier, Jean-Yves ; Chas, Marcos ; Goeb, Sébastien ; Sallé, Marc ; Gindre, Denis ; Sahraoui, Bouchta. / **Third order nonlinear optical response of TTF-based molecular corners**. In: Nonlinear Optics, Quantum Optics. 2012 ; Vol. 43, No. 1-4. pp. 205-212.

Habib, Mohsin ; Ozbay, Ekmel ; Caglayan, Humeyra. / **Tuning plasmon induced reflectance with hybrid metasurfaces**. In: Photonics. 2019 ; Vol. 6, No. 1.

Trikshev, A. I. ; Kurkov, A. S. ; Tsvetkov, V. B. ; Filatova, S. A. ; Kertulla, J. ; Filippov, V. ; Chamorovskiy, Y. K. ; Okhotnikov, O. G. / **160W single-frequency laser based on active tapered double-clad fiber amplifier**. Optics InfoBase Conference Papers. 2013.

Tervo, Oskari ; Levanen, Toni ; Pajukoski, Kari ; Hulkkonen, Jari ; Wainio, Pekka ; Valkama, Mikko. / **5G new radio evolution towards sub-THz communications**. 2nd 6G Wireless Summit 2020: Gain Edge for the 6G Era, 6G SUMMIT 2020. IEEE, 2020.

Berger, Paul R. ; Li, Miao ; Mattei, Ryan M. ; Niang, Maimouna A. ; Talisa, Noah ; Tripepi, Michael ; Harris, Brandon ; Bhalerao, Sagar R. ; Chowdhury, Enam A. ; Winter, Charles H. ; Lupo, Donald. / **Advancements in Solution Processable Devices using Metal Oxides For Printed Internet-of-Things Objects**. 2019 Electron Devices Technology and Manufacturing Conference, EDTM 2019. IEEE, 2019. pp. 160-162

Ruotsalainen, Marja ; Perala, Henna ; Vaila, Minna ; Jylha, Juha ; Kauhanen, Mikko. / **A Framework for Using Radar Measurements of Unknown Targets in Hierarchical Classification**. FUSION 2019 - 22nd International Conference on Information Fusion. IEEE, 2019.

Jeyhani, Vala ; Mahdiani, Shadi ; Viik, Jari ; Oksala, Niku ; Vehkaoja, Antti. / **A novel technique for analysis of postural information with wearable devices**. 2018 IEEE 15th International Conference on Wearable and Implantable Body Sensor Networks, BSN 2018. IEEE, 2018. pp. 30-33

Khan, Muhammad Adnan ; Vehmas, Risto ; Visa, Ari. / **Automatic detection of water inside concrete slabs using ground penetrating radar**. 2019 IEEE Radar Conference, RadarConf 2019. IEEE, 2019.

- Piche, Robert. / **Automatic numerical differentiation by maximum likelihood estimation of a linear Gaussian state space model.** 2019 18th European Control Conference, ECC 2019. IEEE, 2019. pp. 1861-1865
- Pournoori, Nikta ; Ukkonen, Leena ; Sydänheimo, Lauri ; Björninen, Toni. / **Charge Storage Level Sensor RFID Tag : Impedance Matching and Experimental Characterisation.** 13th European Conference on Antennas and Propagation, EuCAP 2019. IEEE, 2019.
- Dong, Guoqing ; Shen, Yizhu ; He, Han ; Virkki, Johanna ; Hu, Sanming. / **Chipless graphene tag and dual-CP reader for Internet of Things.** 2017 International Applied Computational Electromagnetics Society Symposium in China, ACES-China 2017. IEEE, 2017.
- Le, Duc ; Ukkonen, Leena ; Björninen, Toni. / **Circularly Polarized Corner-Truncated and Slotted Microstrip Patch Antenna on Textile Substrate for Wearable Passive UHF RFID Tags.** 14th European Conference on Antennas and Propagation, EuCAP 2020. IEEE, 2020. (14th European Conference on Antennas and Propagation, EuCAP 2020).
- Martinez, R. ; Kimionis, John ; Georgiadis, A. ; Collado, A. ; Tentzeris, M. ; Goussetis, G. ; Tornero, J. L. / **Circularly polarized shorted ring slot rectenna with a mesh design for optimized inkjet printing on paper substrate.** 2015 9th European Conference on Antennas and Propagation, EuCAP 2015. Institute of Electrical and Electronics Engineers Inc., 2015.
- Kuang, Ye ; Ma, Shubin ; Ukkonen, Leena ; Virkki, Johanna ; Björninen, Toni. / **Circularly Polarized Textile Tag Antenna for Wearable Passive UHF RFID Systems.** 2018 International Applied Computational Electromagnetics Society Symposium in China, ACES-China 2018. IEEE, 2019.
- Ma, Shubin ; Ukkonen, Leena ; Sydänheimo, Lauri ; Björninen, Toni. / **Comparison of Human Head Phantoms with Different Complexities for Implantable Antenna Development.** 2018 International Applied Computational Electromagnetics Society (ACES) Symposium: 29 July-1 Aug. 2018, China. IEEE, 2019.
- Pyrhönen, Veli-Pekka ; Vilkkö, Matti K. / **Composite nonlinear feedback control of a JIB trolley of a tower crane behaviors.** 2019 18th European Control Conference, ECC 2019. IEEE, 2019. pp. 1124-1129
- Piccardi, A. ; Alberucci, A. ; Assanto, G. ; Tabiryan, N. / **Dark solitons in nematic liquid crystals.** Optics InfoBase Conference Papers. 2011.
- Sorvajärvi, T. ; Rossi, J. ; Toivonen, J. / **Detection of KC1 and KOH using collinear photofragmentation and atomic absorption spectroscopy.** The European Conference on Lasers and Electro-Optics, CLEO\_Europe 2013. 2013.
- Henno, J. ; Jaakkola, H. ; Mäkelä, J. / **Developing curiosity and multimedia skills with programming experiments.** 2017 40th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2017 - Proceedings. IEEE, 2017. pp. 694-699
- Giannoulis, G. ; Korpijärvi, V. M. ; Iliadis, N. ; Mäkelä, J. ; Viheriälä, J. ; Apostolopoulos, D. ; Guina, M. ; Avramopoulos, H. / **Dilute nitride SOAs for high-speed data processing in variable temperature conditions.** Optical Fiber Communication Conference, OFC 2015. OSA - The Optical Society, 2015.
- Cakmakyapan, Semih ; Caglayan, Humeyra ; Serebryannikov, Andriy ; Ozbay, Ekmel. / **Directional selectivity through the subwavelength slit in metallic gratings.** CLEO: Applications and Technology. 2011.
- Cakmakyapan, Semih ; Caglayan, Humeyra ; Serebryannikov, Andriy ; Ozbay, Ekmel. / **Directional selectivity through the subwavelength slit in metallic gratings.** CLEO: Science and Innovations 2011. 2011.

- Cakmakyapan, Semih ; Caglayan, Humeyra ; Serebryannikov, Andriy ; Ozbay, Ekmel. / **Directional selectivity through the subwavelength slit in metallic gratings**. Quantum Electronics and Laser Science Conference, QELS 2011. 2011.
- Kahle, Hermann ; Phung, Hoy-My ; Penttinen, Jussi-Pekka ; Rajala, Patrik ; Tukiainen, Antti ; Ranta, Sanna ; Guina, Mircea. / **Double-side pumped membrane external-cavity surface-emitting laser (MECSEL) with increased efficiency emitting > 3 W in the 780 nm region**. 2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings. IEEE, 2019.
- Kettunen, Lauri ; Kovanen, Tuomas. / **Electromagnetism and cross-disciplinary problems**. 2016 URSI International Symposium on Electromagnetic Theory, EMTS 2016. IEEE, 2016. pp. 500-501
- Yoo, Seong Ki ; Cotton, Simon L. ; Sofotasios, Paschalis C. ; Muhaidat, Sami ; Badarneh, Osamah S. ; Karagiannidis, George K. / **Energy Detection-Based Spectrum Sensing over Fisher-Snedecor F Fading Channels**. 2018 IEEE Global Communications Conference. IEEE, 2019.
- Li, Suyue ; Bariah, Lina ; Muhaidat, Sami ; Sofotasios, Paschalis ; Liang, Jie ; Wang, Anhong. / **Error analysis of NOMA-based user cooperation with SWIPT**. Proceedings - 15th Annual International Conference on Distributed Computing in Sensor Systems, DCOSS 2019. IEEE, 2019. pp. 507-513
- Farooq, A. ; Evreinov, G. ; Raisamo, R. ; Takahata, D. / **Evaluating transparent liquid screen overlay as a haptic conductor : Method of enhancing touchscreen based user interaction by a transparent deformable liquid screen overlay**. 2015 IEEE SENSORS - Proceedings. Institute of Electrical and Electronics Engineers Inc., 2015.
- Väilä, Minna ; Jylhä, Juha ; Ruotsalainen, Marja ; Perälä, Henna. / **Exploiting the Momentary Dependence of Radar Observations for Non-Cooperative Target Recognition**. FUSION 2019 - 22nd International Conference on Information Fusion. IEEE, 2019.
- Chen, X. ; He, H. ; Ukkonen, L. ; Virkki, J. ; Lu, Y. ; Lam, H. / **Fabrication and reliability evaluation of passive UHF RFID T-shirts**. 2018 IEEE International Workshop on Antenna Technology, iWAT2018 - Proceedings. IEEE, 2018. pp. 1-4
- Abdallah, Zeina ; Stefszky, Michael ; Ulvila, Ville ; Silberhorn, Christine ; Vainio, Markku. / **Frequency Comb Generation in a Continuous-Wave Pumped Second-Order Nonlinear Waveguide Resonator**. 2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings. IEEE, 2019.
- Kokkonen, Joonas ; Lehtomäki, Janne ; Petrov, Vitaly ; Moltchanov, Dmitri ; Juntti, Markku. / **Frequency domain penetration loss in the terahertz band**. 2016 Global Symposium on Millimeter Waves (GSMM) & ESA Workshop on Millimetre-Wave Technology and Applications . IEEE, 2016.
- Ahmed, Shahbaz ; Sydänheimo, Lauri ; Ukkonen, Leena ; Björninen, Toni. / **Headband Antenna for Wireless Power Transfer to Millimeter-Sized Neural Implants with Minimal Misalignment Effects**. 14th European Conference on Antennas and Propagation, EuCAP 2020. IEEE, 2020. (14th European Conference on Antennas and Propagation, EuCAP 2020).
- Nilsson, J. ; Sahu, J. K. ; Jeong, Y. ; Filippov, V. N. ; Soh, D. B S ; Codemard, C. A. ; Dupriez, P. ; Kim, J. ; Richardson, D. J. ; Malinowski, A. ; Piper, A. N. ; Price, J. H V ; Furusawa, K. ; Clarkson, W. A. ; Payne, D. N. / **High power fiber lasers**. Optics InfoBase Conference Papers. Optical Society of America, 2006.
- Saad-Bin-Alam, Md ; Reshef, Orad ; Huttunen, Mikko J. ; Carlow, Graham ; Sullivan, Brian ; Menard, Jean Michel ; Dolgaleva, Ksenia ; Boyd, Robert W. / **High-Q resonance train in a plasmonic metasurface**. 2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings. IEEE, 2019.
- Goncalves, Ricardo ; Pinho, Pedro ; Carvalho, Nuno Borges ; Tentzeris, Manos M. / **Humidity passive sensors based on UHF RFID using cork dielectric slabs**. 2015 9th European Conference on Antennas and Propagation, EuCAP 2015. Institute of Electrical and Electronics Engineers Inc., 2015.

Asp, Ari ; Hentilä, Tuomo ; Valkama, Mikko ; Pikkuvirta, Jussa ; Hujanen, Arto ; Huhtinen, Ismo. / **Impact of Different Concrete Types on Radio Propagation : Fundamentals and Practical RF Measurements**. 2019 4th International Conference on Smart and Sustainable Technologies, SpliTech 2019. editor / Joel J.P.C. Rodrigues ; Petar Solic ; Toni Perkovic ; Katarina Vukojevic ; Joel J.P.C. Rodrigues ; Luigi Patrono ; Sandro Nizetic. IEEE, 2019.

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

Jylhä, Juha ; Ruotsalainen, Marja ; Väilä, Minna ; Perälä, Henna. / **Incorporating Aircraft Kinematics and Radar Cross Section into the Performance Prediction of Air Surveillance**. FUSION 2019 - 22nd International Conference on Information Fusion. IEEE, 2019.

Solin, Arno ; Cortes, Santiago ; Rahtu, Esa ; Kannala, Juho. / **Inertial Odometry on Handheld Smartphones**. 2018 21st International Conference on Information Fusion, FUSION 2018. IEEE, 2018. pp. 1361-1368

Mäkinen, Petri ; Mononen, Teemu ; Mattila, Jouni. / **Inertial Sensor-Based State Estimation of Flexible Links Subject to Bending and Torsion**. 2018 14th IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, MESA 2018. IEEE, 2018.

Su, W. ; Cooper, J. R. ; Cook, B. S. ; Tentzeris, M. M. ; Mariotti, C. ; Roselli, L. / **Inkjet-printed dual microfluidic-based sensor integrated system**. 2015 IEEE SENSORS - Proceedings. Institute of Electrical and Electronics Engineers Inc., 2015.

Piccardi, Armando ; Alberucci, Alessandro ; Kravets, Nina ; Assanto, Gaetano ; Buchnev, Oleksandr ; Kaczmarek, Malgosia. / **Light beam hysteresis in liquid crystals**. 2014 Fotonica AEIT Italian Conference on Photonics Technologies, Fotonica AEIT 2014. IEEE COMPUTER SOCIETY PRESS, 2014.

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

Su, Wenjing ; Cook, Benjamin S. ; Tentzeris, Manos M. / **Low-cost microfluidics-enabled tunable loop antenna using inkjet-printing technologies**. 2015 9th European Conference on Antennas and Propagation, EuCAP 2015. Institute of Electrical and Electronics Engineers Inc., 2015.

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

Pihlajasalo, Jaakko ; Leppäkoski, Helena ; Kuismanen, Saara ; Ali-Löytty, Simo ; Piche, Robert. / **Methods for long-term GNSS clock offset prediction**. 2019 International Conference on Localization and GNSS, ICL-GNSS 2019: 4-6 June 2019, Nuremberg, Germany. editor / Jari Nurmi ; Elena-Simona Lohan ; Alexander Rugamer ; Albert Heuberger ; Wolfgang Koch. IEEE, 2019. (International Conference on Localization and GNSS).

Rajan, Dhanesh Kattippambal ; Verho, Jarmo ; Kreutzer, Joose ; Valimäki, Hannu ; Ihalainen, Heimo ; Lekkala, Jukka ; Patrikoski, Mimmi ; Miettinen, Susanna. / **Monitoring pH, temperature and humidity in long-term stem cell culture in CO<sub>2</sub> incubator**. 2017 IEEE International Symposium on Medical Measurements and Applications (MeMeA). IEEE, 2017. pp. 470-474

Ahishali, Mete ; Kiranyaz, Serkan ; Ince, Turker ; Gabbouj, Moncef. / **Multifrequency Pulsar Image Classification Using Dual-Band 1D Convolutional Neural Networks**. 2020 Mediterranean and Middle-East Geoscience and Remote Sensing Symposium, M2GARSS 2020 - Proceedings. IEEE, 2020. pp. 73-76



Izdebskaya, Yana V. ; Desyatnikov, Anton S. ; Assanto, Gaetano ; Kivshar, Yuri S. / **Multimode waveguides in nematic liquid crystals**. Conference on Lasers and Electro-Optics/Pacific Rim, CLEOPR 2011. 2011. pp. 1912-1913

Piccardi, A. ; Alberucci, A. ; Bortolozzo, U. ; Residori, S. ; Assanto, G. / **Nematicon routing in liquid crystal light valve**. Optics InfoBase Conference Papers. 2010.

Caglayan, Humeyra ; Bulu, Irfan ; Loncar, Marko ; Ozbay, Ekmel. / **Observation of defect formation in metamaterials**. Plasmonics and Metamaterials 2008. Optical Society of America, 2008.

Rubel, Oleksii ; Lukin, Vladimir ; Egiazarian, Karen. / **On prediction of DCT-based denoising efficiency under spatially correlated noise conditions**. 2016 13th International Conference on Modern Problems of Radio Engineering, Telecommunications and Computer Science (TCSET) . IEEE, 2016. pp. 750-754

Linna, P. ; Mäkinen, T. ; Yrjökoski, K. / **Open data based value networks : Finnish examples of public events and agriculture**. 2017 40th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2017 - Proceedings. IEEE, 2017. pp. 1448-1453

Sadiek, Ibrahim ; Mikkonen, Tommi ; Vainio, Markku ; Toivonen, Juha ; Foltynowicz, Aleksandra. / **Optical Frequency Comb Photoacoustic Spectroscopy**. 2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings. IEEE, 2019.

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

He, Han ; Chen, Xiaochen ; Raivio, Leevi ; Huttunen, Heikki ; Virkki, Johanna. / **Passive RFID-based Textile Touchpad**. 14th European Conference on Antennas and Propagation, EuCAP 2020. IEEE, 2020.

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

Motlagh, Hamid Didari Khamseh ; Lotfi, Faraz ; Taghirad, Hamid D. ; Germi, Saeed Bakhshi. / **Position Estimation for Drones based on Visual SLAM and IMU in GPS-denied Environment**. ICRoM 2019 - 7th International Conference on Robotics and Mechatronics. IEEE, 2019. pp. 120-124

Khan, Zahangir ; He, Han ; Chen, Xiaochen ; Ukkonen, Leena ; Virkki, Johanna. / **Protective Coating Methods for Glove-Integrated RFID Tags - A Preliminary Study**. 14th European Conference on Antennas and Propagation, EuCAP 2020. IEEE, 2020. (14th European Conference on Antennas and Propagation, EuCAP 2020).

Teke, Burak ; Lanz, Minna ; Kämäräinen, Joni-Kristian ; Hietanen, Antti. / **Real-time and Robust Collaborative Robot Motion Control with Microsoft Kinect @ v2**. 2018 14th IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, MESA 2018. IEEE, 2018.

Mahmoodpour, Mehdi ; Lobov, Andrei ; Lanz, Minna ; Mäkelä, Petteri ; Rundas, Niko. / **Role-based visualization of industrial IoT-based systems**. 2018 14th IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, MESA 2018. IEEE, 2018.

Assanto, Gaetano ; Peccianti, Marco ; Alberucci, Alessandro ; Piccardi, Armando. / **Routing light with nematicons : Light localization and steering in liquid crystals**. Optics InfoBase Conference Papers. Optical Society of America, 2009. pp. 2281-2282

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

Veselov, A. ; Efimov, A. ; Chamorovski, A. ; Okhotnikov, O. ; Kosolapov, A. ; Levchenko, A. ; Lemmetyinen, H. ; Tkachenko, N. / **Self-assembled monolayers (SAMs) of porphyrin deposited inside solid-core photonic crystal fibre (SCPCF)**. Access Networks and In-house Communications, ANIC 2011. 2011.

Le Xuan, L. ; Slablab, A. ; Zhou, C. ; Chauvat, D. ; De Wilde, Y. ; Perruchas, S. ; Tard, C. ; Gacoin, T. ; Villeval, P. ; Roch, J. F. / **Single KTiOPO4 nanocrystals for nonlinear probing of local optical fields and interaction with a metallic nanostructure**. Optics InfoBase Conference Papers. Optical Society of America, 2009.

Piccardi, Armando ; Alberucci, Alessandro ; Assanto, Gaetano. / **Soliton self-deflection via power-dependent walk-off**. Optics InfoBase Conference Papers. 2010.

Izdebskaya, Yana V. ; Desyatnikov, Anton S. ; Assanto, Gaetano ; Kivshar, Yuri. / **Spatial solitons carrying phase singularities in nematic liquid crystals**. Conference on Lasers and Electro-Optics/Pacific Rim, CLEOPR 2011. 2011. pp. 444-445

Piccardi, Armando ; Alberucci, Alessandro ; Assanto, Gaetano ; Kaczmarek, Malgosia. / **Spatial solitons in a self-focusing medium with tunable nonlinearity**. Optics InfoBase Conference Papers. 2011.

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

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

Jaakkola, H. ; Henno, J. ; Thalheim, B. ; Mäkelä, J. / **The educators' telescope to the future of technology**. 2017 40th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2017 - Proceedings. IEEE, 2017. pp. 660-665

Caglayan, Humeyra ; Engheta, Nader. / **Theory of near-IR metatronic nanocircuits using transparent conducting oxides (TCO)**. Frontiers in Optics 2011. Optical Society of America, 2011.

Dos Santos, Rochelle Schneider ; Taylor, Jonathon ; Davies, Michael ; Mavrogianni, Anna ; Milner, James. / **The variation of air and surface temperatures in London within a 1km grid using vehicle-transect and ASTER data**. 2017 Joint Urban Remote Sensing Event, JURSE 2017. Institute of Electrical and Electronics Engineers Inc., 2017. (2017 Joint Urban Remote Sensing Event, JURSE 2017).

Peccianti, M. ; Pasquazi, A. ; Assanto, G. ; Morandotti, R. / **Third harmonic generation enhancement in nematic liquid crystals via nonlocal solitons propagation**. CLEO: Science and Innovations, CLEO\_SI 2011. 2011.

Jaakkola, H. ; Henno, J. ; Mäkelä, J. ; Thalheim, B. / **Today is the future of yesterday; What is the future of today?**. 2017 40th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2017 - Proceedings. IEEE, 2017. pp. 635-643

Eyraud, C. ; Sorsa, L. I. ; Herique, A. ; Geffrin, J. M. ; Pursiainen, S. ; Kofman, W. / **Towards Asteroid Tomography : Modellings and Measurements Using an Analogue Model**. 14th European Conference on Antennas and Propagation, EuCAP 2020. IEEE, 2020. (14th European Conference on Antennas and Propagation, EuCAP 2020).

Rastorgueva-Foi, Elizaveta ; Costa, Mário ; Koivisto, Mike ; Leppänen, Kari ; Valkama, Mikko. / **User Positioning in mmW 5G Networks Using Beam-RSRP Measurements and Kalman Filtering**. 2018 21st International Conference on Information Fusion, FUSION 2018. IEEE, 2018. pp. 1150-1156