

Introduction to the Special Section on Sound Scene and Event Analysis

Richard, G., Virtanen, T., Bello, J. P., Ono, N. & Glotin, H., 1 Jun 2017, In : IEEE/ACM Transactions on Audio Speech and Language Processing. 25, 6, p. 1169-1171 3 p.

Research output: Contribution to journal › Article › Scientific

Acquiring respiration rate from photoplethysmographic signal by recursive bayesian tracking of intrinsic modes in time-frequency spectra

Pirhonen, M., Peltokangas, M. & Vehkaoja, A., 1 Jun 2018, In : Sensors. 18, 6, 1693.

Research output: Contribution to journal › Article › Scientific › peer-review

Adaptive and nonlinear control of discharge pressure for variable displacement axial piston pumps

Koivumäki, J. & Mattila, J., 1 Oct 2017, In : Journal of Dynamic Systems, Measurement and Control: Transactions of the ASME. 139, 10, 101008.

Research output: Contribution to journal › Article › Scientific › peer-review

Adaptive multiresolution method for MAP reconstruction in electron tomography

Acar, E., Peltonen, S. & Ruotsalainen, U., 1 Nov 2016, In : Ultramicroscopy. 170, p. 24-34 11 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Alpha radiation-induced luminescence by am-241 in aqueous nitric acid solution

Kerst, T., Malmbeck, R., Ial Banik, N. L. & Toivonen, J., 1 Apr 2019, In : Sensors (Switzerland). 19, 7, 1602.

Research output: Contribution to journal › Article › Scientific › peer-review

Ambient rf energy harvesting sensor device with capacitor-leakage-aware duty cycle control

Shigeta, R., Sasaki, T., Quan, D. M., Kawahara, Y., Vyas, R. J., Tentzeris, M. M. & Asami, T., 2013, In : IEEE Sensors Journal. 13, 8, p. 2973-2983 11 p., 6521342.

Research output: Contribution to journal › Article › Scientific › peer-review

Amplifier similariton laser with extra-broad bandwidth output pulse

Korobko, D. A., Okhotnikov, O. G. & Zolotovskii, I. O., 1 Mar 2016, In : Laser Physics Letters. 13, 3, 035106.

Research output: Contribution to journal › Article › Scientific › peer-review

An activity recognition framework deploying the random forest classifier and a single optical heart rate monitoring and triaxial accelerometer wrist-band

Mehrang, S., Pietilä, J. & Korhonen, I., 22 Feb 2018, In : Sensors. 18, 2, 613.

Research output: Contribution to journal › Article › Scientific › peer-review

Binary Non-Negative Matrix Deconvolution for Audio Dictionary Learning

Drgas, S., Virtanen, T., Lücke, J. & Hurmalainen, A., 1 Aug 2017, In : IEEE/ACM Transactions on Audio Speech and Language Processing. 25, 8, p. 1644-1656 13 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Bioimpedance Sensor Array for Long-Term Monitoring of Wound Healing from Beneath the Primary Dressings and Controlled Formation of H₂O₂ Using Low-Intensity Direct Current

Kekonen, A., Bergelin, M., Johansson, M., Kumar Joon, N., Bobacka, J. & Viik, J., 31 May 2019, In : Sensors. 19, 11

Research output: Contribution to journal › Article › Scientific › peer-review

Blind Separation of Audio Mixtures Through Nonnegative Tensor Factorization of Modulation Spectrograms

Barker, T. & Virtanen, T., 1 Dec 2016, In : IEEE/ACM transactions on audio speech and language processing. 24, 12, p. 2377-2389 13 p.

Research output: Contribution to journal › Article › Scientific › peer-review

ClothFace: A Batteryless RFID-Based Textile Platform for Handwriting Recognition

He, H., Chen, X., Mehmood, A., Raivio, L., Huttunen, H., Raunonen, P. & Virkki, J., 28 Aug 2020, In : Sensors (Basel, Switzerland). 20, 17, 12 p., 4878.

Research output: Contribution to journal › Article › Scientific › peer-review

Coupled dictionaries for exemplar-based speech enhancement and automatic speech recognition

Baby, D., Virtanen, T., Gemmeke, J. F. & Van hamme, H., 1 Nov 2015, In : *Ieee-Acm transactions on audio speech and language processing*. 23, 11, p. 1788-1799 12 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Cysteine-tagged chimeric avidin forms high binding capacity layers directly on gold

Vikholm-Lundin, I., Auer, S., Paakkunainen, M., Määttä, J. A. E., Munter, T., Leppiniemi, J., Hytönen, V. P. & Tappura, K., Aug 2012, In : *Sensors and Actuators B: Chemical*. 171-172, p. 440-448 9 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Design and development of a novel passive wireless ultrasensitive RF temperature transducer for remote sensing

Thai, T. T., Mehdi, J. M., Chebila, F., Aubert, H., Pons, P., Dejean, G. R., Tentzeris, M. M. & Plana, R., 2012, In : *IEEE Sensors Journal*. 12, 9, p. 2756-2766 11 p., 6208808.

Research output: Contribution to journal › Article › Scientific › peer-review

Designing, Manufacturing and Testing of a Piezoelectric Polymer Film In-Sole Sensor for Plantar Pressure Distribution Measurements

Rajala, S., Mattila, R., Kaartinen, I. & Lekkala, J., 15 Oct 2017, In : *IEEE Sensors Journal*. 17, 20, p. 6798-6805 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Detection and Classification of Acoustic Scenes and Events: Outcome of the DCASE 2016 Challenge

Mesaros, A., Heittola, T., Benetos, E., Foster, P., Lagrange, M., Virtanen, T. & Plumbley, M. D., Feb 2018, In : *IEEE/ACM Transactions on Audio Speech and Language Processing*. 26, 2, p. 379-393

Research output: Contribution to journal › Article › Scientific › peer-review

Detection of 3,4-methylenedioxymethamphetamine (MDMA, ecstasy) by displacement of antibodies

Vikholm-Lundin, I., Auer, S. & Hellgren, A. C., 10 Aug 2011, In : *Sensors and Actuators B: Chemical*. 156, 1, p. 28-34 7 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Development of a constant dilution sampling system for particulate and gaseous pollutant measurements

Tzankiozis, T., Ntziachristos, L., Amanatidis, S., Niemelä, V., Ukkonen, A. & Samaras, Z., Aug 2013, In : *Measurement Science and Technology*. 24, 8, 085801.

Research output: Contribution to journal › Article › Scientific › peer-review

Development of Low Cost, Wireless, Inkjet Printed Microfluidic RF Systems and Devices for Sensing or Tunable Electronics

Mariotti, C., Su, W., Cook, B. S., Roselli, L. & Tentzeris, M. M., 1 Jun 2015, In : *IEEE Sensors Journal*. 15, 6, p. 3156-3163 8 p., 6966729.

Research output: Contribution to journal › Article › Scientific › peer-review

Environmental monitoring with distributed mesh networks: An overview and practical implementation perspective for urban scenario

Ometov, A., Bezzateev, S., Voloshina, N., Masek, P. & Komarov, M., 2 Dec 2019, In : *Sensors (Switzerland)*. 19, 24, 19 p., 5548.

Research output: Contribution to journal › Article › Scientific › peer-review

Evaluation of dry electrodes in canine heart rate monitoring

Virtanen, J., Somppi, S., Törnqvist, H., Jeyhani, V., Fiedler, P., Gizatdinova, Y., Majaranta, P., Vääätäjä, H., Cardó, A. V., Lekkala, J., Tuukkanen, S., Surakka, V., Vainio, O. & Vehkaoja, A., 1 Jun 2018, In : *Sensors*. 18, 6, 1757.

Research output: Contribution to journal › Article › Scientific › peer-review

Fluid Transmission Line Modeling Using a Variational Method

Mäkinen, J., Piché, R. & Ellman, A., Mar 2000, In : *Journal of Dynamic Systems, Measurement and Control: Transactions of the ASME*. 122, 1, p. 153-162 10 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Fluorimetric oxygen sensor with an efficient optical read-out for in vitro cell models

Välimäki, H., Verho, J., Kreuzer, J., Kattiparambil Rajan, D., Ryyänen, T., Pekkanen-Mattila, M., Ahola, A., Tappura, K., Kallio, P. & Lekkala, J., 1 Oct 2017, In : *Sensors and Actuators B: Chemical*. 249, p. 738-746 9 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Fusionsense: Emotion classification using feature fusion of multimodal data and deep learning in a brain-inspired spiking neural network

Tan, C., Ceballos, G., Kasabov, N. & Subramaniyam, N. P., 17 Sep 2020, In : *Sensors (Switzerland)*. 20, 18, 27 p., 5328.

Research output: Contribution to journal › Article › Scientific › peer-review

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

Kooser, K., Kivimäki, A., Turunen, P., Pärna, R., Reisberg, L., Kirm, M., Valden, M., Huttula, M. & Kukk, E., 1 Jul 2020, In : *JOURNAL OF SYNCHROTRON RADIATION*. 27, p. 1080-1091 12 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Highly directive radiation and negative refraction using photonic crystals

Ozbay, E., Bulu, I., Aydin, K., Caglayan, H., Alici, K. B. & Guven, K., Feb 2005, In : *Laser Physics*. 15, 2, p. 217-224 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

High performance corrosion resistant coatings by novel coaxial cold- and hot-wire laser cladding methods

Pajukoski, H., Näkki, J., Thieme, S., Tuominen, J., Nowotny, S. & Vuoristo, P., 2016, In : *Journal of Laser Applications*. 28, 1, 012011.

Research output: Contribution to journal › Article › Scientific › peer-review

Improving reliability for classification of metallic objects using a WTMD portal

Makkonen, J., Marsh, L. A., Vihonen, J., Järvi, A., Armitage, D. W., Visa, A. & Peyton, A. J., 26 Aug 2015, In : *Measurement Science and Technology*. 26, 10, 105103.

Research output: Contribution to journal › Article › Scientific › peer-review

In-flight wind field identification and prediction of parafoil systems

Gao, H., Tao, J., Dehmer, M., Emmert-Streib, F., Sun, Q., Chen, Z., Xie, G. & Zhou, Q., 2020, In : *Applied Sciences (Switzerland)*. 10, 6, 15 p., 1958.

Research output: Contribution to journal › Article › Scientific › peer-review

Inkjet printed, self powered, wireless sensors for environmental, gas, and authentication-based sensing

Vyas, R., Lakafosis, V., Lee, H., Shaker, G., Yang, L., Orecchini, G., Traille, A., Tentzeris, M. M. & Roselli, L., 2011, In : *IEEE Sensors Journal*. 11, 12, p. 3139-3152 14 p., 6008617.

Research output: Contribution to journal › Article › Scientific › peer-review

Joint-Space Kinematic Model for Gravity-Referenced Joint Angle Estimation of Heavy-Duty Manipulators

Vihonen, J., Mattila, J. & Visa, A., 2017, In : *IEEE Transactions on Instrumentation and Measurement*. 66, 12, p. 3280-3288

Research output: Contribution to journal › Article › Scientific › peer-review

Low-cost inkjet-printed fully passive RFID tags for calibration-free capacitive/haptic sensor applications

Kim, S., Kawahara, Y., Georgiadis, A., Collado, A. & Tentzeris, M. M., 1 Jun 2015, In : *IEEE Sensors Journal*. 15, 6, p. 3135-3145 11 p., 6945328.

Research output: Contribution to journal › Article › Scientific › peer-review

M2M Communication Assessment in Energy-Harvesting and Wake-Up Radio Assisted Scenarios Using Practical Components

Rinne, J., Keskinen, J., Berger, P. R., Lupo, D. & Valkama, M., 16 Nov 2018, In : *Sensors (Basel, Switzerland)*. 18, 11

Research output: Contribution to journal › Article › Scientific › peer-review

Measurement of sensitivity distribution map of a ferroelectret polymer film

Rajala, S., Paaajanen, M. & Lekkala, J., 27 Sep 2016, In : IEEE Sensors Journal. 16, 23, p. 8517-8522

Research output: Contribution to journal > Article > Scientific > peer-review

Measurement of the refractive index dispersion of As₂Se₃ bulk glass and thin films prior to and after laser irradiation and annealing using prism coupling in the near- and mid-infrared spectral range

Carlie, N., Anheier, N. C., Qiao, H. A., Bernacki, B., Phillips, M. C., Petit, L., Musgraves, J. D. & Richardson, K., May 2011, In : Review of Scientific Instruments. 82, 5, 053103.

Research output: Contribution to journal > Article > Scientific > peer-review

Methods for simultaneous robot-world-hand-eye calibration: A comparative study

Ali, I., Suominen, O., Gotchev, A. & Morales, E. R., 2 Jun 2019, In : Sensors (Switzerland). 19, 12, 2837.

Research output: Contribution to journal > Article > Scientific > peer-review

Metrics for polyphonic sound event detection

Mesaros, A., Heittola, T. & Virtanen, T., 2016, In : Applied Sciences. 6, 6, 162.

Research output: Contribution to journal > Article > Scientific > peer-review

Microwave assisted laser-induced breakdown spectroscopy at ambient conditions

Viljanen, J., Sun, Z. & Alwahabi, Z. T., 1 Apr 2016, In : Spectrochimica Acta Part B: Atomic Spectroscopy. 118, p. 29-36 8 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Molecular dynamics simulation of the damage production in Al (110) surface with slow argon ions

Valkealahti, S. & Nieminen, R. M., 1 Jan 1986, In : Nuclear Inst. and Methods in Physics Research, B. 18, 1-6, p. 365-369 5 p.

Research output: Contribution to journal > Article > Scientific > peer-review

New Evidence for the Mechanism of Action of a Type-2 Diabetes Drug Using a Magnetic Bead-Based Automated Biosensing Platform

Uddin, R., Nur-E-Habiba, N., Rena, G., Hwu, E. T. & Boisen, A., 22 Sep 2017, In : ACS Sensors. 2, 9, p. 1329-1336 8 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Noncontact Respiration Monitoring during Sleep with Microwave Doppler Radar

Zakrzewski, M., Vehkaoja, A., Joutsen, A. S., Palovuori, K. T. & Vanhala, J. J., 1 Oct 2015, In : IEEE Sensors Journal. 15, 10, p. 5683-5693 11 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Non-destructive and wireless monitoring of biodegradable polymers

Salpavaara, T., Hänninen, A., Antniemi, A., Lekkala, J. & Kellomäki, M., 2017, In : Sensors and Actuators B: Chemical. 251, p. 1018-1025

Research output: Contribution to journal > Article > Scientific > peer-review

Optimal emission enhancement in orthogonal double-pulse laser-induced breakdown spectroscopy

Sanginés, R., Contreras, V., Sobral, H. & Robledo-Martinez, A., 6 Jul 2015, In : Spectrochimica Acta Part B: Atomic Spectroscopy. 110, p. 139-145 7 p., 4935.

Research output: Contribution to journal > Article > Scientific > peer-review

Passive Moisture Sensor Based on Conductive and Water-Soluble Yarns

Chen, X., He, H., Gou, M., Yang, Y., Sydänheimo, L., Ukkonen, L. & Virkki, J., 15 Sep 2020, In : IEEE Sensors Journal. 20, 18, p. 10989-10995 7 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Passive resonance sensor based method for monitoring particle suspensions

Salpavaara, T., Järveläinen, M., Seppälä, S., Yli-Hallila, T., Verho, J., Vilkkö, M., Leikkala, J. & Levänen, E., 8 Jun 2015, In : *Sensors and Actuators B: Chemical*. 219, p. 324-330 7 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Piezoresistive natural rubber-multiwall carbon nanotube nanocomposite for sensor applications

Selvan, N. T., Eshwaran, S. B., Das, A., Stöckelhuber, K. W., Wießner, S., Pötschke, P., Nando, G. B., Chervanyov, A. I. & Heinrich, G., 1 Mar 2016, In : *Sensors and Actuators, A: Physical*. 239, p. 102-113 12 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Polarization control of the bound state of a vector soliton

Gumenyuk, R. & Okhotnikov, O. G., May 2013, In : *Laser Physics Letters*. 10, 5, p. 1-3 3 p., 055111.

Research output: Contribution to journal > Article > Scientific > peer-review

Positioning information privacy in intelligent transportation systems: An overview and future perspective

Ometov, A., Bezzateev, S., Davydov, V., Shchesniak, A., Masek, P., Lohan, E. S. & Koucheryavy, Y., 1 Apr 2019, In : *Sensors*. 19, 7, 1603.

Research output: Contribution to journal > Article > Scientific > peer-review

Ranges and stopping power of KeV electrons in the solid hydrogens

Valkealahti, S., Schou, J., Sørensen, H. & Nieminen, R. M., 1 Jan 1988, In : *Nuclear Inst. and Methods in Physics Research, B*. 34, 3, p. 321-331 11 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Rapid and sensitive detection of norovirus antibodies in human serum with a bilayer interferometry biosensor

Auer, S., Koho, T., Uusi-Kerttula, H., Vesikari, T., Blazevic, V. & Hytönen, V. P., 31 Dec 2015, In : *Sensors and Actuators B: Chemical*. 221, p. 507-514 8 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Restoration of low-dose digital breast tomosynthesis

Borges, L. R., Azzari, L., Bakic, P. R., Maidment, A. D. A., Vieira, M. A. C. & Foi, A., 19 Apr 2018, In : *Measurement Science and Technology*. 29, 6, 064003.

Research output: Contribution to journal > Article > Scientific > peer-review

RFID-based sensors for zero-power autonomous wireless sensor networks

Cook, B. S., Vyas, R., Kim, S., Thai, T., Le, T., Traille, A., Aubert, H. & Tentzeris, M. M., 2014, In : *IEEE Sensors Journal*. 14, 8, p. 2419-2431 13 p., 6701187.

Research output: Contribution to journal > Article > Scientific > peer-review

RFID-Based Wireless Passive Sensors Utilizing Cork Materials

Gonçalves, R., Rima, S., Magueta, R., Pinho, P., Collado, A., Georgiadis, A., Hester, J., Carvalho, N. B. & Tentzeris, M. M., 1 Dec 2015, In : *IEEE Sensors Journal*. 15, 12, p. 7242-7251 10 p., 7222363.

Research output: Contribution to journal > Article > Scientific > peer-review

Round Robin computer simulation of ejection probability in sputtering

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., Vicanek, M. & Urbassek, H. M., 1 Feb 1989, In : *Nuclear Inst. and Methods in Physics Research, B*. 36, 2, p. 110-123 14 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Screen-printed curvature sensors for soft robots

Koivikko, A., Raei, E. S., Mosallaei, M., Mäntysalo, M. & Sariola, V., 2018, In : *IEEE Sensors Journal*. 18, 1, p. 223-230

Research output: Contribution to journal > Article > Scientific > peer-review

Secure and connected wearable intelligence for content delivery at a mass event: A case study

Ometov, A., Solomitskii, D., Olsson, T., Bezzateev, S., Shchesniak, A., Andreev, S., Harju, J. & Koucheryavy, Y., 1 Jun 2017, In : *Journal of Sensor and Actuator Networks*. 6, 2, 5.

Research output: Contribution to journal › Article › Scientific › peer-review

Sensitivity modeling of an RFID-based strain-sensing antenna with dielectric constant change

Yi, X., Wu, T., Wang, Y. & Tentzeris, M. M., 1 Nov 2015, In : *IEEE Sensors Journal*. 15, 11, p. 6147-6155 9 p., 7152827.

Research output: Contribution to journal › Article › Scientific › peer-review

Sensor Fusion for Unobtrusive Respiratory Rate Estimation in Dogs

Antink, C. H., Pirhonen, M., Väättäjä, H., Somppi, S., Tornqvist, H., Cardo, A., Teichmann, D., Vainio, O., Surakka, V. & Vehkaoja, A., 15 Aug 2019, In : *IEEE Sensors Journal*. 19, 16, p. 7072-7081 10 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Separation of Moving Sound Sources Using Multichannel NMF and Acoustic Tracking

Nikunen, J., Diment, A. & Virtanen, T., 2018, In : *IEEE/ACM Transactions on Audio Speech and Language Processing*. 26, 2, p. 281-295

Research output: Contribution to journal › Article › Scientific › peer-review

Sequential Collinear Photofragmentation and Atomic Absorption Spectroscopy for Online Laser Monitoring of Triatomic Metal Species

Viljanen, J., Kalmankoski, K., Contreras, V., Sarin, J. K., Sorvajärvi, T., Kinnunen, H., Enestam, S. & Toivonen, J., 18 Jan 2020, In : *Sensors (Basel, Switzerland)*. 20, 2, 14 p., 533.

Research output: Contribution to journal › Article › Scientific › peer-review

Spectral object recognition in hyperspectral holography with complex-domain denoising

Shevkunov, I., Katkovnik, V., Claus, D., Pedrini, G., Petrov, N. V. & Egiazarian, K., 26 Nov 2019, In : *Sensors (Switzerland)*. 19, 23, 10 p., 5188.

Research output: Contribution to journal › Article › Scientific › peer-review

Statistical evaluation of barkhausen noise testing (BNT) for ground samples

Tomkowski, R., Sorsa, A., Santa-Aho, S., Lundin, P. & Vippola, M., 1 Nov 2019, In : *Sensors (Switzerland)*. 19, 21, 4716.

Research output: Contribution to journal › Article › Scientific › peer-review

Structural characterization, spectroscopic, thermal, AC conductivity and dielectric properties and antimicrobial studies of $(C_8H_{12}N)_2[SnCl_6]$

Mathlouthi, M., Valkonen, A., Rzaigui, M. & Smirani, W., 2017, In : *PHASE TRANSITIONS*. 90, 4, p. 399-414 16 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Third order nonlinear optical response of TTF-based molecular corners

Iliopoulos, K., Czapllicki, R., Ouazzani, H. E., Balandier, J-Y., Chas, M., Goeb, S., Sallé, M., Gindre, D. & Sahraoui, B., 2012, In : *Nonlinear Optics, Quantum Optics*. 43, 1-4, p. 205-212 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Tuning plasmon induced reflectance with hybrid metasurfaces

Habib, M., Ozbay, E. & Caglayan, H., 2019, In : *Photonics*. 6, 1, 29.

Research output: Contribution to journal › Article › Scientific › peer-review

160W single-frequency laser based on active tapered double-clad fiber amplifier

Trikshev, A. I., Kurkov, A. S., Tsvetkov, V. B., Filatova, S. A., Kertulla, J., Filippov, V., Chamorovskiy, Y. K. & Okhotnikov, O. G., 2013, *Optics InfoBase Conference Papers*.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

5G new radio evolution towards sub-THz communications

Tervo, O., Levanen, T., Pajukoski, K., Hulkkonen, J., Wainio, P. & Valkama, M., 1 Mar 2020, *2nd 6G Wireless Summit 2020: Gain Edge for the 6G Era, 6G SUMMIT 2020*. IEEE, 6 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Advancements in Solution Processable Devices using Metal Oxides For Printed Internet-of-Things Objects

Berger, P. R., Li, M., Mattei, R. M., Niang, M. A., Talisa, N., Tripepi, M., Harris, B., Bhalerao, S. R., Chowdhury, E. A., Winter, C. H. & Lupo, D., 1 Mar 2019, *2019 Electron Devices Technology and Manufacturing Conference, EDTM 2019*. IEEE, p. 160-162 3 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

A Framework for Using Radar Measurements of Unknown Targets in Hierarchical Classification

Ruotsalainen, M., Perala, H., Vaila, M., Jylha, J. & Kauhanen, M., 2019, *FUSION 2019 - 22nd International Conference on Information Fusion*. IEEE, 8 p. 9011387

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

A novel technique for analysis of postural information with wearable devices

Jeyhani, V., Mahdiani, S., Viik, J., Oksala, N. & Vehkaoja, A., 2 Apr 2018, *2018 IEEE 15th International Conference on Wearable and Implantable Body Sensor Networks, BSN 2018*. IEEE, p. 30-33 4 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Automatic detection of water inside concrete slabs using ground penetrating radar

Khan, M. A., Vehmas, R. & Visa, A., 1 Apr 2019, *2019 IEEE Radar Conference, RadarConf 2019*. IEEE

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Automatic numerical differentiation by maximum likelihood estimation of a linear Gaussian state space model

Piche, R., 1 Jun 2019, *2019 18th European Control Conference, ECC 2019*. IEEE, p. 1861-1865 5 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Charge Storage Level Sensor RFID Tag: Impedance Matching and Experimental Characterisation

Pournoori, N., Ukkonen, L., Sydänheimo, L. & Björninen, T., 1 Mar 2019, *13th European Conference on Antennas and Propagation, EuCAP 2019*. IEEE

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Chipless graphene tag and dual-CP reader for Internet of Things

Dong, G., Shen, Y., He, H., Virkki, J. & Hu, S., 26 Sep 2017, *2017 International Applied Computational Electromagnetics Society Symposium in China, ACES-China 2017*. IEEE

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Circularly Polarized Corner-Truncated and Slotted Microstrip Patch Antenna on Textile Substrate for Wearable Passive UHF RFID Tags

Le, D., Ukkonen, L. & Björninen, T., 1 Mar 2020, *14th European Conference on Antennas and Propagation, EuCAP 2020*. IEEE, 5 p. (14th European Conference on Antennas and Propagation, EuCAP 2020).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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

Martinez, R., Kimionis, J., Georgiadis, A., Collado, A., Tentzeris, M., Goussetis, G. & Tornero, J. L., 27 Aug 2015, *2015 9th European Conference on Antennas and Propagation, EuCAP 2015*. Institute of Electrical and Electronics Engineers Inc., 7228814

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Circularly Polarized Textile Tag Antenna for Wearable Passive UHF RFID Systems

Kuang, Y., Ma, S., Ukkonen, L., Virkki, J. & Björninen, T., 18 Mar 2019, *2018 International Applied Computational Electromagnetics Society Symposium in China, ACES-China 2018*. IEEE

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Comparison of Human Head Phantoms with Different Complexities for Implantable Antenna Development

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