

Betrouni, N. ; Colin, P. ; Puech, P. ; Villers, A. ; Mordon, S. / **An image guided treatment platform for prostate cancer photodynamic therapy**. 2013 35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2013. 2013. Sivut 370-373

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. Sivut 30-33

Rauti, Sampsa ; Lahtiranta, Janne ; Parisod, Heidi ; Hyrynsalmi, Sami ; Salanterä, Sanna ; Aromaa, Minna Elisabeth ; Smed, Jouni ; Leppänen, Ville. / **A Proxy-Based Solution for Asynchronous Telemedical Systems**. Julkaisussa: International Journal of E-health and Medical Communication. 2017 ; Vuosikerta 8, Nro 3. Sivut 70-83.

Rasku, Jyrki ; Ojala, Marisa ; Pölönen, Risto Pekka ; Joutsijoki, Henry ; Gizatdinova, Yulia ; Laurikkala, Jorma ; Kartasalo, Kimmo ; Aalto-Setälä, Katriina ; Juhola, Martti. / **A software tool for studying the size and shape of human cardiomyocytes**. Julkaisussa: Biomedical Signal Processing and Control. 2016 ; Vuosikerta 30. Sivut 134-139.

Potapov, Ilya ; Järvenpää, Marko ; Åkerblom, Markku ; Raumonon, Pasi ; Kaasalainen, Mikko. / **Bayes Forest : A data-intensive generator of morphological tree clones**. Julkaisussa: GigaScience. 2017 ; Vuosikerta 6, Nro 10.

Marcián, Petr ; Narra, Nathaniel ; Borák, Libor ; Chamrad, Jakob ; Wolff, Jan. / **Biomechanical performance of cranial implants with different thicknesses and material properties : A finite element study**. Julkaisussa: Computers in Biology and Medicine. 2019 ; Vuosikerta 109. Sivut 43-52.

Sun, L. ; Hu, P. ; Goh, C. ; Hamadicharef, B. ; Ifeakor, E. ; Barbounakis, I. ; Zervakis, M. ; Nurminen, N. ; Varri, A. ; Fontanelli, R. ; Di Bona, S. ; Guerri, D. ; La Manna, S. ; Cerbioni, K. ; Palanca, E. ; Starita, A. / **Bioprofiling over Grid for eHealthcare**. Julkaisussa: STUDIES IN HEALTH TECHNOLOGY AND INFORMATICS. 2006 ; Vuosikerta 120. Sivut 205-216.

Värri, Alpo ; Koivuluoma, Mikko ; Morvan, Catherine. / **Chapter 3.9-a computer-assisted visual sleep scoring program**. Julkaisussa: STUDIES IN HEALTH TECHNOLOGY AND INFORMATICS. 2000 ; Vuosikerta 78. Sivut 285-297.

Dander, Andreas ; Mueller, Laurin A J ; Gallasch, Ralf ; Pabinger, Stephan ; Emmert-Streib, Frank ; Graber, Armin ; Dehmer, Matthias. / **[COMMODE] a large-scale database of molecular descriptors using compounds from PubChem**. Julkaisussa: Source Code for Biology and Medicine. 2013 ; Vuosikerta 8.

Harju, Jarkko ; Vehkaoja, Antti ; Kumpulainen, Pekka ; Campadello, Stefano ; Lindroos, Ville ; Yli-Hankala, Arvi ; Oksala, Niku. / **Comparison of non-invasive blood pressure monitoring using modified arterial applanation tonometry with intra-arterial measurement**. Julkaisussa: Journal of Clinical Monitoring and Computing. 2018 ; Vuosikerta 32, Nro 1. Sivut 13-22.

Anwar, Shahzad ; Izhar-UI-Haq, Izhar ; Qadir, Muhammad Usman ; Ali, Ihtisham ; Razzaq, Shadman ; Ahmad, Bilal ; Shah, Kamran ; Shah, Shaukat Ali ; Khan, Muhammad Tahir. / **Computer aided diagnosis of acoustic neuroma : A neural network perspective**. Julkaisussa: JOURNAL OF MEDICAL IMAGING AND HEALTH INFORMATICS. 2017 ; Vuosikerta 7, Nro 2. Sivut 371-377.

Silverajan, Bilhanan ; Ocak, Mert ; Nagel, Benjamin. / **Cybersecurity Attacks and Defences for Unmanned Smart Ships**. 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. Sivut 15-20

Tarniceriu, Adrian ; Harju, Jarkko ; Vehkaoja, Antti ; Parak, Jakob ; Delgado-Gonzalo, Ricard ; Renevey, Philippe ; Yli-Hankala, Arvi ; Korhonen, Ilkka. / **Detection of beat-to-beat intervals from wrist photoplethysmography in patients with sinus rhythm and atrial fibrillation after surgery**. 2018 IEEE EMBS International Conference on Biomedical and Health Informatics, BHI 2018. IEEE, 2018. Sivut 133-136

Halonen, Sanna ; Annala, Kari ; Kari, Juho ; Jokinen, Samuli ; Lumme, Aki ; Kronström, Kai ; Yli-Hankala, Arvi. / **Detection of spine structures with Bioimpedance Probe (BIP) Needle in clinical lumbar punctures.** Julkaisussa: Journal of Clinical Monitoring and Computing. 2017 ; Vuosikerta 31, Nro 5. Sivut 1065–1072.

Tripathy, Soumya Ranjan ; Chakravarty, Kingshuk ; Sinha, Aniruddha. / **Eigen Posture Based Fall Risk Assessment System Using Kinect.** 40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2018. Vuosikerta 2018-July IEEE, 2018. Sivut 1-4

Makni, Nasr ; Puech, Philippe ; Colin, Pierre ; Azzouzi, Abdelrahmene ; Mordon, Serge ; Betrouni, Nacim. / **Elastic image registration for guiding focal laser ablation of prostate cancer : Preliminary results.** Julkaisussa: Computer Methods and Programs in Biomedicine. 2012 ; Vuosikerta 108, Nro 1. Sivut 213-223.

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. Sivut 507-513

Honka, Anita Marianne ; Helander, Elina ; Pavel, Misha ; Jimison, Holly ; Mustonen, Pekka ; Korhonen, Ilkka ; Ermes, Miikka. / **Exploring associations between the self-reported values, well-being, and health behaviors of finnish citizens : Cross-sectional analysis of more than 100,000 web-survey responses.** Julkaisussa: Journal of Medical Internet Research. 2019 ; Vuosikerta 21, Nro 4.

Amato, Giuseppe ; Falchi, Fabrizio ; Gennaro, Claudio ; Massoli, Fabio Valerio ; Passalis, Nikolaos ; Tefas, Anastasios ; Trivilini, Alessandro ; Vairo, Claudio. / **Face verification and recognition for digital forensics and information security.** 7th International Symposium on Digital Forensics and Security, ISDFS 2019. Toimittaja / Asaf Varol ; Murat Karabatak ; Cihan Varol ; Sevginur Teke. IEEE, 2019.

Ilves, Mirja ; Rantanen, Ville ; Venesvirta, Hanna ; Lylykangas, Jani ; Vehkaoja, Antti ; Mäkelä, Eeva ; Verho, Jarmo ; Lekkala, Jukka ; Rautiainen, Markus ; Surakka, Veikko. / **Functional electrical stimulation for facial pacing : Effects of waveforms on movement intensity and ratings of discomfort.** Julkaisussa: Biomedical Signal Processing and Control. 2020 ; Vuosikerta 60.

Pirhonen, Mikko ; Vehkaoja, Antti. / **Fusion enhancement for tracking of respiratory rate through intrinsic mode functions in photoplethysmography.** Julkaisussa: Biomedical Signal Processing and Control. 2020 ; Vuosikerta 59.

Heikkinen, Jani Erik ; Gafurov, Salimzhan ; Kopylov, Sergey ; Minav, Tatiana ; Grebennikov, Sergey ; Kurbanov, Artur. / **Hardware-in-the-loop platform for testing autonomous vehicle control algorithms.** Proceedings - 12th International Conference on the Developments in eSystems Engineering, DeSE 2019. Toimittaja / Dhiya Al-Jumeily ; Jade Hind ; Jamila Mustafina ; Assem Al-Hajj ; Abir Hussain ; Evgeni Magid ; Hissam Tawfik. IEEE, 2019. Sivut 906-911 (International Conference on Developments in eSystems Engineering, DeSE).

Jauhiainen, Milla ; Puustinen, Juha ; Mehrang, Saeed ; Ruokolainen, Jari ; Holm, Anu ; Vehkaoja, Antti ; Nieminen, Hannu. / **Identification of motor symptoms related to Parkinson disease using motion-tracking sensors at home (KÄVELI) : Protocol for an observational case-control study.** Julkaisussa: Journal of Medical Internet Research. 2019 ; Vuosikerta 21, Nro 3.

Mehrang, Saeed ; Jauhiainen, Milla ; Pietilä, Julia ; Puustinen, Juha ; Ruokolainen, Jari ; Nieminen, Hannu. / **Identification of Parkinson's Disease Utilizing a Single Self-recorded 20-step Walking Test Acquired by Smartphone's Inertial Measurement Unit.** 40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2018. Vuosikerta 2018-July Institute of Electrical and Electronics Engineers Inc., 2018. Sivut 2913-2916

Kaipio, Johanna ; Stenhammar, Hanna ; Immonen, Susanna ; Litovuola, Lauri ; Axelsson, Minja ; Lantto, Minna ; Lahdenne, Pekka. / **Improving hospital services based on patient experience data : Current feedback practices and future opportunities.** Building Continents of Knowledge in Oceans of Data: The Future of Co-Created eHealth - Proceedings of MIE 2018. IOS Press, 2018. Sivut 266-270 (Studies in Health Technology and Informatics).

Liuhanen, Sasu ; Sallisalmi, Marko ; Pettilä, Ville ; Oksala, Niku ; Tenhunen, Jyrki. / **Indirect measurement of the vascular endothelial glycocalyx layer thickness in human submucosal capillaries with a plug-in for ImageJ.** Julkaisussa: Computer Methods and Programs in Biomedicine. 2013 ; Vuosikerta 110, Nro 1. Sivut 38-47.

Ahtinen, Aino ; Mattila, Elina ; Väikkynen, Pasi ; Kaipainen, Kirsikka ; Vanhala, Toni ; Ermes, Miikka ; Sairanen, Essi ; Myllymäki, Tero ; Lappalainen, Raimo. / **Mobile mental wellness training for stress management : Feasibility and design implications based on a one-month field study.** Julkaisussa: Journal of Medical Internet Research. 2013 ; Vuosikerta 15, Nro 7.

Ruokolainen, Jari. / **Mobile Microservice Architecture for Patients Self-Care.** The Practice of Patient Centered Care: Empowering and Engaging Patients in the Digital Era. IOS Press, 2017. Sivut 106 (Studies in Health Technology and Informatics).

De Matos Simoes, Ricardo ; Mitsiades, Constantine ; Williamson, Kate E. ; Emmert-Streib, Frank. / **Network signatures based on gene pair expression ratios improve classification and the analysis of muscle-invasive urothelial cancer.** 2015 IEEE International Conference on Bioinformatics and Biomedicine (BIBM). IEEE, 2015. Sivut 1216-1223

Juhola, Martti ; Joutsijoki, Henry ; Varpa, Kirsi ; Saarikoski, Jyri ; Rasku, Jyrki ; Iltanen, Kati ; Laurikkala, Jorma ; Hyyro, Heikki ; Avalos-Salguero, Jorge ; Siirtola, Harri ; Penttinen, Kirsi ; Aalto-Setälä, Katriina. / **On computation of calcium cycling anomalies in cardiomyocytes data.** 2014 36th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2014. Institute of Electrical and Electronics Engineers Inc., 2014. Sivut 1444-1447

Pertuz, Said ; Torres, German F. ; Tamimi, Rulla ; Kämäräinen, Joni. / **Open framework for mammography-based breast cancer risk assessment.** 2019 IEEE EMBS International Conference on Biomedical and Health Informatics, BHI 2019 - Proceedings. IEEE, 2019.

Rostami, Soheil ; Lagen, Sandra ; Costa, Mario ; D'Ini, Paolo ; Valkama, Mikko. / **Optimized wake-up scheme with bounded delay for energy-efficient MTC.** 2019 IEEE Global Communications Conference, GLOBECOM 2019 - Proceedings. IEEE, 2019.

Genocchi, Barbara ; Cunha, Andre ; Jain, Soumil ; Hyttinen, Jari ; Lenk, Kerstin ; Ellingsrud, Ada Johanne. / **Parametric exploration of cellular swelling in a computational model of cortical spreading depression.** 42nd Annual International Conferences of the IEEE Engineering in Medicine and Biology Society: Enabling Innovative Technologies for Global Healthcare, EMBC 2020. IEEE, 2020. Sivut 2491-2495 (Annual International Conference of the IEEE Engineering in Medicine and Biology Society).

Gerasimenko, Mikhail ; Pokorný, Jiri ; Schneider, Tibor ; Sirjov, Jakub ; Andreev, Sergey ; Hosek, Jiri. / **Prototyping directional UAV-based wireless access and backhaul systems.** 2019 IEEE Global Communications Conference, GLOBECOM 2019 - Proceedings. IEEE, 2019.

Habib, Muhammad ; Rasheed, Saqib ; Hussain, Ayyaz ; Ali, Mubashir. / **Random Value Impulse Noise Removal Based on Most Similar Neighbors.** 2015 13th International Conference on Frontiers of Information Technology (FIT) . IEEE, 2016. Sivut 329-333

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

Baino, Francesco ; Barberi, Jacopo ; Fiume, Elisa ; Orlygsson, Gissur ; Massera, Jonathan ; Verné, Enrica. / **Robocasting of Bioactive SiO<sub>2</sub>-P<sub>2</sub>O<sub>5</sub>-CaO-MgO-Na<sub>2</sub>O-K<sub>2</sub>O Glass Scaffolds.** Julkaisussa: Journal of Healthcare Engineering. 2019 ; Vuosikerta 2019.

Kolehmainen, Antti. / **Secure Firmware Updates for IoT : A Survey.** 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. Sivut 112-117

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

Joutsijoki, Henry ; Penttinen, Kirsi ; Juhola, Martti ; Aalto-Setälä, Katriina. / **Separation of HCM and LQT Cardiac Diseases with Machine Learning of Ca<sup>2+</sup> Transient Profiles.** Julkaisussa: Methods of Information in Medicine. 2019 ; Vuosikerta 58, Nro 4-5. Sivut 167-178.

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

Tarniceriu, Adrian ; Harju, Jarkko ; Yousefi, Zeinab Rezaei ; Vehkaoja, Antti ; Parak, Jakub ; Yli-Hankala, Arvi ; Korhonen, Ilkka. / **The Accuracy of Atrial Fibrillation Detection from Wrist Photoplethysmography. A Study on Post-Operative Patients .** 40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2018. Vuosikerta 2018-July IEEE, 2018. Sivut 4844-4847

Värri, Alpo ; Tiainen, Minna ; Rajalahti, Elina ; Kinnunen, Ulla Mari ; Saarni, Lea ; Ahonen, Outi. / **The Definition of Informatics Competencies in Finnish Healthcare and Social Welfare Education.** Digital Personalized Health and Medicine: Proceedings of MIE 2020. IOP Press, 2020. Sivut 1143-1147 (Studies in Health Technology and Informatics).

Värri, Alpo ; Kallonen, Antti ; Helander, Elina ; Ledesma Figueroa, Andres ; Pladys, Patrick. / **The Digi-NewB project for preterm infant sepsis risk and maturity analysis.** Julkaisussa: Finnish Journal of eHealth and eWelfare. 2018 ; Vuosikerta 10, Nro 2-3. Sivut 330-333.

Peltokangas, Mikko ; Suominen, Velipekka ; Vakhitov, Damir ; Verho, Jarmo ; Korhonen, Janne ; Lekkala, Jukka ; Vehkaoja, Antti ; Oksala, Niku. / **The effect of percutaneous transluminal angioplasty of superficial femoral artery on pulse wave features.** Julkaisussa: Computers in Biology and Medicine. 2018 ; Vuosikerta 96. Sivut 274-282.

Verscheure, L. ; Peyrodie, L. ; Dewalle, A. S. ; Reyns, N. ; Betrouni, N. ; Mordon, S. ; Vermandel, M. / **Three-dimensional skeletonization and symbolic description in vascular imaging : Preliminary results.** Julkaisussa: INTERNATIONAL JOURNAL OF COMPUTER ASSISTED RADIOLOGY AND SURGERY. 2013 ; Vuosikerta 8, Nro 2. Sivut 233-246.

Serra, Angela ; Fratello, Michele ; Del Giudice, Giusy ; Saarimäki, Laura Aliisa ; Paci, Michelangelo ; Federico, Antonio ; Greco, Dario. / **TinderMIX : Time-dose integrated modelling of toxicogenomics data.** Julkaisussa: GigaScience. 2020 ; Vuosikerta 9, Nro 5.

Sintonen, Sanna ; Mäkelä, Kari ; Miettinen, Raimo. / **User acceptance of electronic health records : A post-implementation study.** Julkaisussa: International Journal of Healthcare Technology and Management. 2015 ; Vuosikerta 15, Nro 2. Sivut 162-175.

Vaz, Pedro ; Pereira, Tânia ; Figueiras, Edite ; Correia, Carlos ; Humeau-Heurtier, Anne ; Cardoso, João. / **Which wavelength is the best for arterial pulse waveform extraction using laser speckle imaging?.** Julkaisussa: Biomedical Signal Processing and Control. 2016 ; Vuosikerta 25. Sivut 188-195.