

- Serra A, Fratello M, Del Giudice G, Saarimäki LA, Paci M, Federico A, Greco D. 2020. TinderMIX: Time-dose integrated modelling of toxicogenomics data. *GigaScience*. 9(5). <https://doi.org/10.1093/gigascience/giaa055>
- Pirhonen M, Vehkaoja A. 2020. Fusion enhancement for tracking of respiratory rate through intrinsic mode functions in photoplethysmography. *Biomedical Signal Processing and Control*. 59. <https://doi.org/10.1016/j.bspc.2020.101887>
- Ilves M, Rantanen V, Venesvirta H, Lylykangas J, Vehkaoja A, Mäkelä E, Verho J, Lekkala J, Rautiainen M, Surakka V. 2020. Functional electrical stimulation for facial pacing: Effects of waveforms on movement intensity and ratings of discomfort. *Biomedical Signal Processing and Control*. 60. <https://doi.org/10.1016/j.bspc.2020.101992>
- Joutsijoki H, Penttinen K, Juhola M, Aalto-Setälä K. 2019. Separation of HCM and LQT Cardiac Diseases with Machine Learning of Ca<sup>2+</sup> Transient Profiles. *Methods of Information in Medicine*. 58(4-5):167-178. <https://doi.org/10.1055/s-0040-1701484>
- Honka AM, Helander E, Pavel M, Jimison H, Mustonen P, Korhonen I, Ermes M. 2019. 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. *Journal of Medical Internet Research*. 21(4). <https://doi.org/10.2196/12170>
- Jauhiainen M, Puustinen J, Mehrang S, Ruokolainen J, Holm A, Vehkaoja A, Nieminen H. 2019. Identification of motor symptoms related to Parkinson disease using motion-tracking sensors at home (KÄVELI): Protocol for an observational case-control study. *Journal of Medical Internet Research*. 21(3). <https://doi.org/10.2196/12808>
- Baino F, Barberi J, Fiume E, Orlygsson G, Massera J, Verné E. 2019. 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. *Journal of Healthcare Engineering*. 2019. <https://doi.org/10.1155/2019/5153136>
- Peltokangas M, Suominen V, Vakhitov D, Verho J, Korhonen J, Lekkala J, Vehkaoja A, Oksala N. 2018. The effect of percutaneous transluminal angioplasty of superficial femoral artery on pulse wave features. *Computers in Biology and Medicine*. 96:274-282. <https://doi.org/10.1016/j.combiomed.2018.04.003>
- Harju J, Vehkaoja A, Kumpulainen P, Campadello S, Lindroos V, Yli-Hankala A, Oksala N. 2018. Comparison of non-invasive blood pressure monitoring using modified arterial applanation tonometry with intra-arterial measurement. *Journal of Clinical Monitoring and Computing*. 32(1):13-22. <https://doi.org/10.1007/s10877-017-9984-3>
- Värri A, Kallonen A, Helander E, Ledesma Figueroa A, Pladys P. 2018. The Digi-NewB project for preterm infant sepsis risk and maturity analysis. *Finnish Journal of eHealth and eWelfare*. 10(2-3):330-333. <https://doi.org/10.23996/fjhw.69152>
- Halonen S, Annala K, Kari J, Jokinen S, Lumme A, Kronström K, Yli-Hankala A. 2017. Detection of spine structures with Bioimpedance Probe (BIP) Needle in clinical lumbar punctures. *Journal of Clinical Monitoring and Computing*. 31(5):1065-1072. <https://doi.org/10.1007/s10877-016-9915-8>
- Rauti S, Lahtiranta J, Parisod H, Hyrynsalmi S, Salanterä S, Aromaa ME, Smed J, Leppänen V. 2017. A Proxy-Based Solution for Asynchronous Telemedical Systems. *International Journal of E-health and Medical Communication*. 8(3):70-83. <https://doi.org/10.4018/IJEHMC.2017070105>
- Potapov I, Järvenpää M, Åkerblom M, Raunonen P, Kaasalainen M. 2017. Bayes Forest: A data-intensive generator of morphological tree clones. *GigaScience*. 6(10). <https://doi.org/10.1093/gigascience/gix079>
- Rasku J, Ojala M, Pölönen RP, Joutsijoki H, Gizatdinova Y, Laurikkala J, Kartasalo K, Aalto-Setälä K, Juhola M. 2016. A software tool for studying the size and shape of human cardiomyocytes. *Biomedical Signal Processing and Control*. 30:134-139. <https://doi.org/10.1016/j.bspc.2016.06.011>
- Vaz P, Pereira T, Figueiras E, Correia C, Humeau-Heurtier A, Cardoso J. 2016. Which wavelength is the best for arterial pulse waveform extraction using laser speckle imaging?. *Biomedical Signal Processing and Control*. 25:188-195. <https://doi.org/10.1016/j.bspc.2015.11.013>

Sintonen S, Mäkelä K, Miettinen R. 2015. User acceptance of electronic health records: A post-implementation study. *International Journal of Healthcare Technology and Management*. 15(2):162-175. <https://doi.org/10.1504/IJHTM.2015.074556>

Dander A, Mueller LAJ, Gallasch R, Pabinger S, Emmert-Streib F, Graber A, Dehmer M. 2013. [COMMODE] a large-scale database of molecular descriptors using compounds from PubChem. *Source Code for Biology and Medicine*. 8. <https://doi.org/10.1186/1751-0473-8-22>

Ahtinen A, Mattila E, Väikkynen P, Kaipainen K, Vanhala T, Ermes M, Sairanen E, Myllymäki T, Lappalainen R. 2013. Mobile mental wellness training for stress management: Feasibility and design implications based on a one-month field study. *Journal of Medical Internet Research*. 15(7). <https://doi.org/10.2196/mhealth.2596>

Liuhanen S, Sallialmi M, Pettilä V, Oksala N, Tenhunen J. 2013. Indirect measurement of the vascular endothelial glycocalyx layer thickness in human submucosal capillaries with a plug-in for ImageJ. *Computer Methods and Programs in Biomedicine*. 110(1):38-47. <https://doi.org/10.1016/j.cmpb.2012.10.019>

Verscheure L, Peyrodie L, Dewalle AS, Reyns N, Betrouni N, Mordon S, Vermandel M. 2013. Three-dimensional skeletonization and symbolic description in vascular imaging: Preliminary results. *INTERNATIONAL JOURNAL OF COMPUTER ASSISTED RADIOLOGY AND SURGERY*. 8(2):233-246. <https://doi.org/10.1007/s11548-012-0784-4>

Makni N, Puech P, Colin P, Azzouzi A, Mordon S, Betrouni N. 2012. Elastic image registration for guiding focal laser ablation of prostate cancer: Preliminary results. *Computer Methods and Programs in Biomedicine*. 108(1):213-223. <https://doi.org/10.1016/j.cmpb.2012.04.001>

Anwar S, Izhar-Ul-Haq I, Qadir MU, Ali I, Razzaq S, Ahmad B, Shah K, Shah SA, Khan MT. 2017. Computer aided diagnosis of acoustic neuroma: A neural network perspective. *JOURNAL OF MEDICAL IMAGING AND HEALTH INFORMATICS*. 7(2):371-377. <https://doi.org/10.1166/jmihi.2017.2057>

Värri A, Tiainen M, Rajalahti E, Kinnunen UM, Saarni L, Ahonen O. 2020. The Definition of Informatics Competencies in Finnish Healthcare and Social Welfare Education. *teoksessa Digital Personalized Health and Medicine: Proceedings of MIE 2020*. IOP Press. Sivut 1143-1147. (Studies in Health Technology and Informatics). <https://doi.org/10.3233/SHTI200341>

Genocchi B, Cunha A, Jain S, Hyttinen J, Lenk K, Ellingsrud AJ. 2020. Parametric exploration of cellular swelling in a computational model of cortical spreading depression. *teoksessa 42nd Annual International Conferences of the IEEE Engineering in Medicine and Biology Society: Enabling Innovative Technologies for Global Healthcare, EMBC 2020*. IEEE. Sivut 2491-2495. (Annual International Conference of the IEEE Engineering in Medicine and Biology Society). <https://doi.org/10.1109/EMBC44109.2020.9175306>

Gerasimenko M, Pokorny J, Schneider T, Sirjov J, Andreev S, Hosek J. 2019. Prototyping directional UAV-based wireless access and backhaul systems. *teoksessa 2019 IEEE Global Communications Conference, GLOBECOM 2019 - Proceedings*. IEEE. <https://doi.org/10.1109/GLOBECOM38437.2019.9014228>

Rostami S, Lagen S, Costa M, Dini P, Valkama M. 2019. Optimized wake-up scheme with bounded delay for energy-efficient MTC. *teoksessa 2019 IEEE Global Communications Conference, GLOBECOM 2019 - Proceedings*. IEEE. <https://doi.org/10.1109/GLOBECOM38437.2019.9013534>

De Oliveira MT, Michalas A, Groot AED, Marquering HA, Olabarriaga SD. 2019. Red Alert: Break-Glass Protocol to Access Encrypted Medical Records in the Cloud. *teoksessa 2019 IEEE International Conference on E-Health Networking, Application and Services, HealthCom 2019*. IEEE. <https://doi.org/10.1109/HealthCom46333.2019.9009598>

Amato G, Falchi F, Gennaro C, Massoli FV, Passalis N, Tefas A, Trivilini A, Vairo C. 2019. Face verification and recognition for digital forensics and information security. *Varol A, Karabatak M, Varol C, Teke S, Toimittajat. teoksessa 7th International Symposium on Digital Forensics and Security, ISDFS 2019*. IEEE. <https://doi.org/10.1109/ISDFS.2019.8757511>

Magazinik A, Bedolla JS, Lasheras NC, Mäkinen S. 2019. Societal impact as Cost-Benefit Analysis: Comparative analysis of two research infrastructures. teoksessa 2019 IEEE International Conference on Engineering, Technology and Innovation, ICE/ITMC 2019. IEEE. <https://doi.org/10.1109/ICE.2019.8792600>

Li S, Bariah L, Muhaidat S, Sofotasios P, Liang J, Wang A. 2019. Error analysis of NOMA-based user cooperation with SWIPT. teoksessa Proceedings - 15th Annual International Conference on Distributed Computing in Sensor Systems, DCOSS 2019. IEEE. Sivut 507-513. <https://doi.org/10.1109/DCOSS.2019.00098>

Pertuz S, Torres GF, Tamimi R, Kämäräinen J. 2019. Open framework for mammography-based breast cancer risk assessment. teoksessa 2019 IEEE EMBS International Conference on Biomedical and Health Informatics, BHI 2019 - Proceedings. IEEE. <https://doi.org/10.1109/BHI.2019.8834599>

Heikkinen JE, Gafurov S, Kopylov S, Minav T, Grebennikov S, Kurbanov A. 2019. Hardware-in-the-loop platform for testing autonomous vehicle control algorithms. Al-Jumeily D, Hind J, Mustafina J, Al-Hajj A, Hussain A, Magid E, Tawfik H, Toimittajat. teoksessa Proceedings - 12th International Conference on the Developments in eSystems Engineering, DeSE 2019. IEEE. Sivut 906-911. (International Conference on Developments in eSystems Engineering, DeSE). <https://doi.org/10.1109/DeSE.2019.00168>

Mehrang S, Jauhiainen M, Pietilä J, Puustinen J, Ruokolainen J, Nieminen H. 2018. Identification of Parkinson's Disease Utilizing a Single Self-recorded 20-step Walking Test Acquired by Smartphone's Inertial Measurement Unit. teoksessa 40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2018. Institute of Electrical and Electronics Engineers Inc. Sivut 2913-2916. <https://doi.org/10.1109/EMBC.2018.8512921>

Tripathy SR, Chakravarty K, Sinha A. 2018. Eigen Posture Based Fall Risk Assessment System Using Kinect. teoksessa 40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2018. IEEE. Sivut 1-4. <https://doi.org/10.1109/EMBC.2018.8513263>

Tarniceriu A, Harju J, Yousefi ZR, Vehkaoja A, Parak J, Yli-Hankala A, Korhonen I. 2018. The Accuracy of Atrial Fibrillation Detection from Wrist Photoplethysmography. A Study on Post-Operative Patients. teoksessa 40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2018. IEEE. Sivut 4844-4847. <https://doi.org/10.1109/EMBC.2018.8513197>

Kolehmainen A. 2018. Secure Firmware Updates for IoT: A Survey. teoksessa 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. Sivut 112-117. [https://doi.org/10.1109/Cybermatics\\_2018.2018.00051](https://doi.org/10.1109/Cybermatics_2018.2018.00051)

Silverajan B, Ocak M, Nagel B. 2018. Cybersecurity Attacks and Defences for Unmanned Smart Ships. teoksessa 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. Sivut 15-20. [https://doi.org/10.1109/Cybermatics\\_2018.2018.00037](https://doi.org/10.1109/Cybermatics_2018.2018.00037)

Tarniceriu A, Harju J, Vehkaoja A, Parak J, Delgado-Gonzalo R, Renevey P, Yli-Hankala A, Korhonen I. 2018. Detection of beat-to-beat intervals from wrist photoplethysmography in patients with sinus rhythm and atrial fibrillation after surgery. teoksessa 2018 IEEE EMBS International Conference on Biomedical and Health Informatics, BHI 2018. IEEE. Sivut 133-136. <https://doi.org/10.1109/BHI.2018.8333387>

Jeyhani V, Mahdiani S, Viik J, Oksala N, Vehkaoja A. 2018. A novel technique for analysis of postural information with wearable devices. teoksessa 2018 IEEE 15th International Conference on Wearable and Implantable Body Sensor Networks, BSN 2018. IEEE. Sivut 30-33. <https://doi.org/10.1109/BSN.2018.8329651>

Kaipio J, Stenhammar H, Immonen S, Litovuo L, Axelsson M, Lantto M, Lahdenne P. 2018. Improving hospital services based on patient experience data: Current feedback practices and future opportunities. teoksessa Building Continents of Knowledge in Oceans of Data: The Future of Co-Created eHealth - Proceedings of MIE 2018. IOS Press. Sivut 266-270. (Studies in Health Technology and Informatics). <https://doi.org/10.3233/978-1-61499-852-5-266>

Ruokolainen J. 2017. Mobile Microservice Architecture for Patients Self-Care. teoksessa The Practice of Patient Centered Care: Empowering and Engaging Patients in the Digital Era. IOS Press. Sivut 106. (Studies in Health Technology and Informatics). <https://doi.org/10.3233/978-1-61499-824-2-106>

Habib M, Rasheed S, Hussain A, Ali M. 2016. Random Value Impulse Noise Removal Based on Most Similar Neighbors. teoksessa 2015 13th International Conference on Frontiers of Information Technology (FIT) . IEEE. Sivut 329-333. <https://doi.org/10.1109/FIT.2015.64>

De Matos Simoes R, Mitsiades C, Williamson KE, Emmert-Streib F. 2015. Network signatures based on gene pair expression ratios improve classification and the analysis of muscle-invasive urothelial cancer. teoksessa 2015 IEEE International Conference on Bioinformatics and Biomedicine (BIBM). IEEE. Sivut 1216-1223. <https://doi.org/10.1109/BIBM.2015.7359855>

Michalas A, Paladi N, Gehrman C. 2015. Security aspects of e-Health systems migration to the cloud. teoksessa 2014 IEEE 16th International Conference on e-Health Networking, Applications and Services, Healthcom 2014. Institute of Electrical and Electronics Engineers Inc. Sivut 212-218. <https://doi.org/10.1109/HealthCom.2014.7001843>

Juhola M, Joutsijoki H, Varpa K, Saarikoski J, Rasku J, Iltanen K, Laurikkala J, Hyyro H, Avalos-Salguero J, Siirtola H, Penttinen K, Aalto-Setälä K. 2014. On computation of calcium cycling anomalies in cardiomyocytes data. teoksessa 2014 36th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2014. Institute of Electrical and Electronics Engineers Inc. Sivut 1444-1447. <https://doi.org/10.1109/EMBC.2014.6943872>

Betrouni N, Colin P, Puech P, Villers A, Mordon S. 2013. An image guided treatment platform for prostate cancer photodynamic therapy. teoksessa 2013 35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2013. Sivut 370-373. <https://doi.org/10.1109/EMBC.2013.6609514>

Marcían P, Narra N, Borák L, Chamrad J, Wolff J. 2019. Biomechanical performance of cranial implants with different thicknesses and material properties: A finite element study. Computers in Biology and Medicine. 109:43-52. <https://doi.org/10.1016/j.compbiomed.2019.04.016>

Sun L, Hu P, Goh C, Hamadicharef B, Ifeachor 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. 2006. Bioprofiling over Grid for eHealthcare. STUDIES IN HEALTH TECHNOLOGY AND INFORMATICS. 120:205-216.

Värri A, Koivuluoma M, Morvan C. 2000. Chapter 3.9-a computer-assisted visual sleep scoring program. STUDIES IN HEALTH TECHNOLOGY AND INFORMATICS. 78:285-297. <https://doi.org/10.3233/978-1-60750-922-6-285>