

- Serra, A., Fratello, M., Del Giudice, G., Saarimäki, L. A., 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, [101887]. <https://doi.org/10.1016/j.bspc.2020.101887>
- Ilves, M., Rantanen, V., Venesvirta, H., Lylykangas, J., Vehkaoja, A., Mäkelä, E., ... 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, [101992]. <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 Ca²⁺ Transient Profiles. *Methods of Information in Medicine*, 58(4-5), 167-178. <https://doi.org/10.1055/s-0040-1701484>
- Honka, A. M., 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), [e12170]. <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), [e12808]. <https://doi.org/10.2196/12808>
- Baino, F., Barberi, J., Fiume, E., Orlygsson, G., Massera, J., & Verné, E. (2019). Robocasting of Bioactive SiO₂-P₂O₅-CaO-MgO-Na₂O-K₂O Glass Scaffolds. *Journal of Healthcare Engineering*, 2019, [5153136]. <https://doi.org/10.1155/2019/5153136>
- Peltokangas, M., Suominen, V., Vakhitov, D., Verho, J., Korhonen, J., Leikkala, J., ... 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, M. E., ... Leppänen, V. (2017). A Proxy-Based Solution for Asynchronous Telemedical Systems. *International Journal of E-health and Medical Communication*, 8(3), 70-83. [5]. <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), [gix079]. <https://doi.org/10.1093/gigascience/gix079>
- Rasku, J., Ojala, M., Pölönen, R. P., Joutsijoki, H., Gizatdinova, Y., Laurikkala, J., ... 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, L. A. J., 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, [22]. <https://doi.org/10.1186/1751-0473-8-22>

Ahtinen, A., Mattila, E., Väikkynen, P., Kaipainen, K., Vanhala, T., Ermes, M., ... 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), [e11]. <https://doi.org/10.2196/mhealth.2596>

Liuhanen, S., Sallisalminen, 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, A. S., 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, M. U., Ali, I., Razzaq, S., Ahmad, B., ... Khan, M. T. (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/jmih.2017.2057>

Värri, A., Tiainen, M., Rajalahti, E., Kinnunen, U. M., 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* (Sivut 1143-1147). (Studies in Health Technology and Informatics; Vuosikerta 270). IOP Press. <https://doi.org/10.3233/SHTI200341>

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* [9014228] 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* [9013534] IEEE. <https://doi.org/10.1109/GLOBECOM38437.2019.9013534>

De Oliveira, M. T., Michalas, A., Groot, A. E. D., Marquering, H. A., & Olabariaga, S. D. (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* [9009598] IEEE. <https://doi.org/10.1109/HealthCom46333.2019.9009598>

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

- Magazinik, A., Bedolla, J. S., Lasheras, N. C., & 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* (Sivut 507-513). IEEE. <https://doi.org/10.1109/DCOSS.2019.00098>
- Pertuz, S., Torres, G. F., 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, J. E., Gafurov, S., Kopylov, S., Minav, T., Grebennikov, S., & Kurbanov, A. (2019). Hardware-in-the-loop platform for testing autonomous vehicle control algorithms. teoksessa D. Al-Jumeily, J. Hind, J. Mustafina, A. Al-Hajj, A. Hussain, E. Magid, & H. Tawfik (Toimittajat), *Proceedings - 12th International Conference on the Developments in eSystems Engineering, DeSE 2019* (Sivut 906-911). [9073320] (International Conference on Developments in eSystems Engineering, DeSE). IEEE. <https://doi.org/10.1109/DeSE.2019.00168>
- Mehrang, S., Jauhainen, 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* (Vuosikerta 2018-July, Sivut 2913-2916). [8512921] Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/EMBC.2018.8512921>
- Tripathy, S. R., 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* (Vuosikerta 2018-July, Sivut 1-4). [8513263] IEEE. <https://doi.org/10.1109/EMBC.2018.8513263>
- Tarniceriu, A., Harju, J., Yousefi, Z. R., 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* (Vuosikerta 2018-July, Sivut 4844-4847). [8513197] IEEE. <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* (Sivut 112-117). IEEE. https://doi.org/10.1109/Cybermatics_2018.2018.00051
- Silverajan, B., Ocaik, 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* (Sivut 15-20). IEEE. https://doi.org/10.1109/Cybermatics_2018.2018.00037
- Tarniceriu, A., Harju, J., Vehkaoja, A., Parak, J., Delgado-Gonzalo, R., Renevey, P., ... 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* (Sivut 133-136). IEEE. <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* (Sivut 30-33). IEEE. <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* (Sivut 266-270). (Studies in Health Technology and Informatics; Vuosikerta 247). IOS Press. <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* (Sivut 106). (Studies in Health Technology and Informatics; Vuosikerta 244). IOS Press. <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)* (Sivut 329-333). IEEE. <https://doi.org/10.1109/FIT.2015.64>

De Matos Simoes, R., Mitsiades, C., Williamson, K. E., & 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)* (Sivut 1216-1223). IEEE. <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* (Sivut 212-218). [7001843] Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/HealthCom.2014.7001843>

Juhola, M., Joutsijoki, H., Varpa, K., Saarikoski, J., Rasku, J., Iltanen, 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* (Sivut 1444-1447). [6943872] Institute of Electrical and Electronics Engineers Inc.. <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). [6609514] <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., ... Starita, A. (2006). Bioprofiling over Grid for eHealthcare. *STUDIES IN HEALTH TECHNOLOGY AND INFORMATICS*, 120, 205-216.

Värrö, 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>