

Marcián P, Narra N, Borák L, Chamrad J, Wolff J. **Biomechanical performance of cranial implants with different thicknesses and material properties: A finite element study.** Computers in Biology and Medicine. 2019 kesä 1;109:43-52. <https://doi.org/10.1016/j.combiomed.2019.04.016>

Sun L, Hu P, Goh C, Hamadicharef B, Ifeachor E, Barbounakis I et al. **Bioprofiling over Grid for eHealthcare.** STUDIES IN HEALTH TECHNOLOGY AND INFORMATICS. 2006 tammi 1;120:205-216.

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

Värri A, Tiainen M, Rajalahti E, Kinnunen UM, Saarni L, Ahonen O. **The Definition of Informatics Competencies in Finnish Healthcare and Social Welfare Education.** julkaisussa Digital Personalized Health and Medicine: Proceedings of MIE 2020. IOP Press. 2020. s. 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. **Parametric exploration of cellular swelling in a computational model of cortical spreading depression.** julkaisussa 42nd Annual International Conferences of the IEEE Engineering in Medicine and Biology Society: Enabling Innovative Technologies for Global Healthcare, EMBC 2020. IEEE. 2020. s. 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. **Prototyping directional UAV-based wireless access and backhaul systems.** julkaisussa 2019 IEEE Global Communications Conference, GLOBECOM 2019 - Proceedings. IEEE. 2019. 9014228 <https://doi.org/10.1109/GLOBECOM38437.2019.9014228>

Rostami S, Lagen S, Costa M, Dini P, Valkama M. **Optimized wake-up scheme with bounded delay for energy-efficient MTC.** julkaisussa 2019 IEEE Global Communications Conference, GLOBECOM 2019 - Proceedings. IEEE. 2019. 9013534 <https://doi.org/10.1109/GLOBECOM38437.2019.9013534>

De Oliveira MT, Michalas A, Groot AED, Marquering HA, Olabarriaga SD. **Red Alert: Break-Glass Protocol to Access Encrypted Medical Records in the Cloud.** julkaisussa 2019 IEEE International Conference on E-Health Networking, Application and Services, HealthCom 2019. IEEE. 2019. 9009598 <https://doi.org/10.1109/HealthCom46333.2019.9009598>

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

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

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

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

Heikkinen JE, Gafurov S, Kopylov S, Minav T, Grebennikov S, Kurbanov A. **Hardware-in-the-loop platform for testing autonomous vehicle control algorithms.** julkaisussa Al-Jumeily D, Hind J, Mustafina J, Al-Hajj A, Hussain A, Magid E, Tawfik H, toimittajat, Proceedings - 12th International Conference on the Developments in eSystems Engineering, DeSE 2019. IEEE. 2019. s. 906-911. 9073320. (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. **Identification of Parkinson's Disease Utilizing a Single Self-recorded 20-step Walking Test Acquired by Smartphone's Inertial Measurement Unit.** julkaisussa 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. s. 2913-2916. 8512921 <https://doi.org/10.1109/EMBC.2018.8512921>

Tripathy SR, Chakravarty K, Sinha A. **Eigen Posture Based Fall Risk Assessment System Using Kinect.** julkaisussa 40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2018. Vuosikerta 2018-July. IEEE. 2018. s. 1-4. 8513263 <https://doi.org/10.1109/EMBC.2018.8513263>

Tarniceriu A, Harju J, Yousefi ZR, Vehkaoja A, Parak J, Yli-Hankala A et al. **The Accuracy of Atrial Fibrillation Detection from Wrist Photoplethysmography. A Study on Post-Operative Patients.** julkaisussa 40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2018. Vuosikerta 2018-July. IEEE. 2018. s. 4844-4847. 8513197 <https://doi.org/10.1109/EMBC.2018.8513197>

Kolehmainen A. **Secure Firmware Updates for IoT: A Survey.** julkaisussa 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. s. 112-117 https://doi.org/10.1109/Cybermatics_2018.2018.00051

Silverajan B, Ocak M, Nagel B. **Cybersecurity Attacks and Defences for Unmanned Smart Ships.** julkaisussa 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. s. 15-20 https://doi.org/10.1109/Cybermatics_2018.2018.00037

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

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

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

Ruokolainen J. **Mobile Microservice Architecture for Patients Self-Care.** julkaisussa The Practice of Patient Centered Care: Empowering and Engaging Patients in the Digital Era. IOS Press. 2017. s. 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. **Random Value Impulse Noise Removal Based on Most Similar Neighbors.** julkaisussa 2015 13th International Conference on Frontiers of Information Technology (FIT) . IEEE. 2016. s. 329-333 <https://doi.org/10.1109/FIT.2015.64>

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

Michalás A, Paladi N, Gehrman C. **Security aspects of e-Health systems migration to the cloud.** julkaisussa 2014 IEEE 16th International Conference on e-Health Networking, Applications and Services, Healthcom 2014. Institute of Electrical and Electronics Engineers Inc. 2015. s. 212-218. 7001843 <https://doi.org/10.1109/HealthCom.2014.7001843>

Juhola M, Joutsijoki H, Varpa K, Saarikoski J, Rasku J, Iltanen K et al. **On computation of calcium cycling anomalies in cardiomyocytes data.** julkaisussa 2014 36th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2014. Institute of Electrical and Electronics Engineers Inc. 2014. s. 1444-1447. 6943872 <https://doi.org/10.1109/EMBC.2014.6943872>

Betrouni N, Colin P, Puech P, Villers A, Mordon S. **An image guided treatment platform for prostate cancer photodynamic therapy.** julkaisussa 2013 35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2013. 2013. s. 370-373. 6609514 <https://doi.org/10.1109/EMBC.2013.6609514>

Anwar S, Izhar-Ul-Haq I, Qadir MU, Ali I, Razzaq S, Ahmad B et al. **Computer aided diagnosis of acoustic neuroma: A neural network perspective.** JOURNAL OF MEDICAL IMAGING AND HEALTH INFORMATICS. 2017 huhti 1;7(2):371-377. <https://doi.org/10.1166/jmihi.2017.2057>

Serra A, Fratello M, Del Giudice G, Saarimäki LA, Paci M, Federico A et al. **TinderMIX: Time-dose integrated modelling of toxicogenomics data.** GigaScience. 2020 touko 1;9(5). <https://doi.org/10.1093/gigascience/giaa055>

Pirhonen M, Vehkaoja A. **Fusion enhancement for tracking of respiratory rate through intrinsic mode functions in photoplethysmography.** Biomedical Signal Processing and Control. 2020;59. 101887. <https://doi.org/10.1016/j.bspc.2020.101887>

Ilves M, Rantanen V, Venesvirta H, Lylykangas J, Vehkaoja A, Mäkelä E et al. **Functional electrical stimulation for facial pacing: Effects of waveforms on movement intensity and ratings of discomfort.** Biomedical Signal Processing and Control. 2020;60. 101992. <https://doi.org/10.1016/j.bspc.2020.101992>

Joutsijoki H, Penttinen K, Juhola M, Aalto-Setälä K. **Separation of HCM and LQT Cardiac Diseases with Machine Learning of Ca²⁺ Transient Profiles.** Methods of Information in Medicine. 2019 marras 1;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 et al. **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. 2019 huhti 1;21(4). e12170. <https://doi.org/10.2196/12170>

Jauhiainen M, Puustinen J, Mehrang S, Ruokolainen J, Holm A, Vehkaoja A et al. **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. 2019 maaliskuu 1;21(3). e12808. <https://doi.org/10.2196/12808>

Baino F, Barberi J, Fiume E, Orlygsson G, Massera J, Verné E. **Robocasting of Bioactive SiO₂-P₂O₅-CaO-MgO-Na₂O-K₂O Glass Scaffolds.** Journal of Healthcare Engineering. 2019;2019. 5153136. <https://doi.org/10.1155/2019/5153136>

Peltokangas M, Suominen V, Vakhitov D, Verho J, Korhonen J, Lekkala J et al. **The effect of percutaneous transluminal angioplasty of superficial femoral artery on pulse wave features.** Computers in Biology and Medicine. 2018 touko 1;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 et al. **Comparison of non-invasive blood pressure monitoring using modified arterial applanation tonometry with intra-arterial measurement.** Journal of Clinical Monitoring and Computing. 2018;32(1):13-22. <https://doi.org/10.1007/s10877-017-9984-3>

Väri A, Kallonen A, Helander E, Ledesma Figueroa A, Pladys P. **The Digi-NewB project for preterm infant sepsis risk and maturity analysis.** Finnish Journal of eHealth and eWelfare. 2018;10(2-3):330-333. <https://doi.org/10.23996/fjhw.69152>

Halonen S, Annala K, Kari J, Jokinen S, Lumme A, Kronström K et al. **Detection of spine structures with Bioimpedance Probe (BIP) Needle in clinical lumbar punctures.** Journal of Clinical Monitoring and Computing. 2017 loka;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 et al. **A Proxy-Based Solution for Asynchronous Telemedical Systems.** International Journal of E-health and Medical Communication. 2017 heinä 1;8(3):70-83. 5. <https://doi.org/10.4018/IJEHMC.2017070105>

Potapov I, Järvenpää M, Åkerblom M, Raunonen P, Kaasalainen M. **Bayes Forest: A data-intensive generator of morphological tree clones.** GigaScience. 2017;6(10). gix079. <https://doi.org/10.1093/gigascience/gix079>

Rasku J, Ojala M, Pölonen RP, Joutsijoki H, Gizatdinova Y, Laurikkala J et al. **A software tool for studying the size and shape of human cardiomyocytes.** Biomedical Signal Processing and Control. 2016 syys 1;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. **Which wavelength is the best for arterial pulse waveform extraction using laser speckle imaging?** Biomedical Signal Processing and Control. 2016 maaliskuu;25:188-195. <https://doi.org/10.1016/j.bspc.2015.11.013>

Sintonen S, Mäkelä K, Miettinen R. **User acceptance of electronic health records: A post-implementation study.** International Journal of Healthcare Technology and Management. 2015;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 et al. **[COMMODE] a large-scale database of molecular descriptors using compounds from PubChem.** Source Code for Biology and Medicine. 2013 marras 13;8. 22. <https://doi.org/10.1186/1751-0473-8-22>

Ahtinen A, Mattila E, Väikkynen P, Kaipainen K, Vanhala T, Ermes M et al. **Mobile mental wellness training for stress management: Feasibility and design implications based on a one-month field study.** Journal of Medical Internet Research. 2013 heinä;15(7). e11. <https://doi.org/10.2196/mhealth.2596>

Liuhanen S, Sallialmi M, Pettilä V, Oksala N, Tenhunen J. **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. 2013 huhti;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 et al. **Three-dimensional skeletonization and symbolic description in vascular imaging: Preliminary results.** INTERNATIONAL JOURNAL OF COMPUTER ASSISTED RADIOLOGY AND SURGERY. 2013 maaliskuu;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. **Elastic image registration for guiding focal laser ablation of prostate cancer: Preliminary results.** Computer Methods and Programs in Biomedicine. 2012 loka;108(1):213-223. <https://doi.org/10.1016/j.cmpb.2012.04.001>