

**The Definition of Informatics Competencies in Finnish Healthcare and Social Welfare Education.** / Värri, Alpo; Tiainen, Minna; Rajalahti, Elina; Kinnunen, Ulla Mari; Saarni, Lea; Ahonen, Outi.  
Digital Personalized Health and Medicine: Proceedings of MIE 2020. IOP Press, 2020. p. 1143-1147 (Studies in Health Technology and Informatics; Vol. 270).  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Yard vegetation is associated with gut microbiota composition.** / Parajuli, Anirudra; Hui, Nan; Puhakka, Riikka; Oikarinen, Sami; Grönroos, Mira; Selonen, Ville A.O.; Siter, Nathan; Kramna, Lenka; Roslund, Marja I.; Vari, Heli K.; Nurminen, Noora; Honkanen, Hanna; Hintikka, Jukka; Sarkkinen, Hannu; Romantschuk, Martin; Kauppi, Markku; Valve, Raisa; Cinek, Ondrej; Laitinen, Olli H.; Rajaniemi, Juho; Hyöty, Heikki; Sinkkonen, Aki.  
In: Science of the Total Environment, Vol. 713, 136707, 15.04.2020.  
Research output: Contribution to journal > Article > Scientific > peer-review

**Identified opportunities for gamification in the elective primary fast-track total hip and knee arthroplasty journey : Secondary analysis of healthcare professionals' interviews.** / Jansson, Miia; Koivisto, Jonna; Pikkarainen, Minna.  
In: JOURNAL OF CLINICAL NURSING, Vol. 29, 2020, p. 2338-2351.  
Research output: Contribution to journal > Article > Scientific > peer-review

**The digital patient journey solution for patients undergoing elective hip and knee arthroplasty : Protocol for a pragmatic randomized controlled trial.** / Jansson, Miia; Vuorinen, Anna Leena; Harjumaa, Marja; Similä, Heidi; Koivisto, Jonna; Puhto, Ari-Pekka; Vesty, Gillian; Pikkarainen, Minna.  
In: Journal of Advanced Nursing, Vol. 76, No. 6, 2020, p. 1436-1448.  
Research output: Contribution to journal > Article > Scientific > peer-review

**Evaluation of printed P(VDF-TrFE) pressure sensor signal quality in arterial pulse wave measurement.** / Laurila, Mika-Matti; Peltokangas, Mikko; Lozano Montero, Karem; Siponkoski, Tuomo; Juuti, Jari; Tuukkanen, Sampo; Oksala, Niku; Vehkaoja, Antti; Mäntysalo, Matti.  
In: IEEE Sensors Journal, 15.08.2019.  
Research output: Contribution to journal > Article > Scientific > peer-review

**Metabolic syndrome is associated with decreased heart rate variability in a sex-dependent manner : a comparison between 252 men and 249 women.** / Kangas, Pauliina; Tikkakoski, Antti; Uitto, Marko; Viik, Jari; Bouquin, Heidi; Niemelä, Onni; Mustonen, Jukka; Pörsti, Ilkka.  
In: Clinical Physiology and Functional Imaging, Vol. 39, No. 2, 03.2019, p. 160-167.  
Research output: Contribution to journal > Article > Scientific > peer-review

**Disposable Microfluidic Sensor Based on Nanocellulose for Glucose Detection.** / Uddin, Khan Mohammad Ahsan; Jokinen, Ville; Jahangiri, Farzin; Franssila, Sami; Rojas, Orlando J.; Tuukkanen, Sampo.  
In: Global Challenges, Vol. 3, No. 2, 02.2019.  
Research output: Contribution to journal > Article > Scientific > peer-review

**Cerebellar Purkinje cells control eye movements with a rapid rate code that is invariant to spike irregularity.** / Payne, Hannah L.; French, Ranran L.; Guo, Christine C.; Nguyen-Vu, T. D. Barbara; Manninen, Tiina; Raymond, Jennifer L.  
In: eLIFE, Vol. 8, e37102, 2019.  
Research output: Contribution to journal > Article > Scientific > peer-review

**Impact of Variable RNA-Sequencing Depth on Gene Expression Signatures and Target Compound Robustness : Case Study Examining Brain Tumor (Glioma) Disease Progression.** / Stupnikov, Alexey; O'Reilly, Paul G.; McInerney, Caitriona E.; Roddy, Aideen C.; Dunne, Philip D.; Gilmore, Alan; Ellis, Hayley P.; Flannery, Tom; Healy, Estelle; McIntosh, Stuart A.; Savage, Kieran; Kurian, Kathreena M.; Emmert-Streib, Frank; Prise, Kevin M.; Salto-Tellez, Manuel; McArt, Darragh G.  
In: JCO precision oncology, Vol. 2, 13.09.2018.  
Research output: Contribution to journal > Article > Scientific > peer-review

**Porous poly-L-lactide-co-1-caprolactone scaffold : A novel biomaterial for vaginal tissue engineering.** / Sartoneva, Reetta; Kuismanen, Kirsi; Juntunen, Miia; Karjalainen, Sanna; Hannula, Markus; Kyllönen, Laura; Hyttinen, Jari; Huhtala, Heini; Paakinaho, Kaarlo; Miettinen, Susanna.  
In: Royal Society Open Science, Vol. 5, No. 8, 180811, 01.08.2018.  
Research output: Contribution to journal > Article > Scientific > peer-review

**Impact loading history modulates hip fracture load and location: A finite element simulation study of the proximal femur in female athletes.** / Abe, Shinya; Narra Girish, Nathaniel; Nikander, Riku; Hyttinen, Jari; Kouhia, Reijo; Sievänen, Harri.  
In: Journal of Biomechanics, Vol. 76, 25.07.2018, p. 136-143.

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

**Temperature-dependence of the single-cell variability in the kinetics of transcription activation in Escherichia coli.** / Goncalves, Nadia; Startceva, Sofia; Palma, Cristina; Bahrudeen, Mohamed; Oliveira, Samuel; Ribeiro, Andre Sanches.  
In: Physical Biology, Vol. 15, No. 2, 01.2018.

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

**Large-Scale Simulation of the Phenotypical Variability Induced by Loss-of-Function Long QT Mutations in Human Induced Pluripotent Stem Cell Cardiomyocytes.** / Paci, Michelangelo; Casini, Simona; Bellin, Milena; Hyttinen, Jari; Severi, Stefano.

In: International Journal of Molecular Sciences, Vol. 19, No. 11, 2018.

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

**Modeling and Engineering Promoters with Pre-defined RNA Production Dynamics in Escherichia Coli.** / Oliveira, Samuel M. D.; Bahrudeen, Mohamed N. M.; Startceva, Sofia; Kandavalli, Vinodh; Ribeiro, Andre S.

Computational Methods in Systems Biology - 16th International Conference, CMSB 2018, Proceedings. Springer Verlag, 2018. p. 3-20 (Lecture Notes in Bioinformatics; Vol. 11095 LNBI).

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

**The Digi-NewB project for preterm infant sepsis risk and maturity analysis.** / Väri, Alpo; Kallonen, Antti; Helander, Elina; Ledesma Figueroa, Andres; Pladys, Patrick.

In: Finnish Journal of eHealth and eWelfare, Vol. 10, No. 2-3, 2018, p. 330-333.

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

**Abstract: High-resolution live cell imaging during mechanical vibration loading.** / Halonen, Heidi; Ihalainen, Teemu; Hyttinen, Jari.

2017. 24-24 Paper presented at BMT and MED Research Day 2017, Tampere, Finland.

Research output: Other conference contribution › Paper, poster or abstract › Scientific

**Ecosystem approach on medical game development: The relevant actors, value propositions and innovation barriers.** /

Litovuo, Lauri; Makkonen, Hannu; Aarikka-Stenroos, Leena; Luhtala, Linda; Mäkinen, Saku.

Association for Computing Machinery, ACM: AcademicMindtrek'17, Sept. 20th-21st, 2017 Tampere Hall, Tampere, Finland. Tampere, Finland : ACM Press, 2017.

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

**The Duke treadmill score in assessing the prognosis of patients tested with bicycle ergometer.** / Viik, Jari.  
2017.

Research output: Other conference contribution › Paper, poster or abstract › Scientific

**Effect of Implant Coating on Wireless Powering for Intracranial Pressure Monitoring System.** / Khan, Waqas; Rizwan, Muhammad; Behfar, Mohammadhossein; Sydänheimo, Lauri; Björninen, Toni; Ukkonen, Leena.

Proceedings of 2017 IEEE AP-S/URSI . IEEE, 2017. (Digest of the IEEE Antennas and Propagation Society International Symposium).

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

**Abstract: Vibration stimulator for imaging mechanotransduction based cell responses.** / Halonen, Heidi; Ihalainen, Teemu; Hyttinen, Jari.

2017. 49-49 Paper presented at EMBEC'17 & NBC'17 | Joint Conference 11-15 June 2017, Tampere, Tampere, .

Research output: Other conference contribution › Paper, poster or abstract › Scientific

**Abstract: Vibration stimulator for microcopying of fast cell responses.** / Halonen, Heidi; Ihalainen, Teemu; Hyttinen, Jari.  
2017. Paper presented at The 23rd Congress of the European Society of Biomechanics, Seville, Spain.

Research output: Other conference contribution › Paper, poster or abstract › Scientific

**Examining service experiences: comparing methods to capture children's experiences.** / Litovuo, Lauri; Aarikka-Stenroos, Leena; Kaipio, Johanna; Karisalmi, Nina.

The 5th Naples Forum on Service 2017 proceedings: Sorrento, Naples, Italy 6-9 June 2017. ed. / Evert Gummesson; Christina Mele; Francesco Polese. SIMAS di Salerno for Naples Forum on Service, 2017.

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

**Foundational eHealth Curricula for the health care workforce.** / Värri, Alpo; Tolonen, Johanna.

2017. 1-6 Paper presented at Sosiaali- ja terveydenhuollon ATK-päivät 2017, Helsinki, Finland.

Research output: Other conference contribution › Paper, poster or abstract › Professional

**EU\*US eHealth Works to Improve Global Workforce Development.** / Blake, Rachele; Shaw, Toria; Blake, Angelique; Hübner, Ursula; Kaye, Rachele; Schug, Stephan; Thye, Johannes; Värri, Alpo.

HIMSS White Papers. Healthcare Information and Management Systems Society, 2017. p. 1-12.

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Professional

**Association of exercise loading history with fall-induced hip fracture risk.** / Abe, Shinya; Narra, Nathaniel; Nikander, Riku; Hyttinen, Jari; Kouhia, Reijo; Sievänen, Harri.

2017. Paper presented at Congress of the European Society of Biomechanics, .

Research output: Other conference contribution › Paper, poster or abstract › Scientific

**Glass and Glass-Ceramic Scaffolds: Manufacturing Methods and the Impact of Crystallization on In-Vitro Dissolution.** / Nommeots-Nomm, Amy; Massera, Jonathan.

Scaffolds in Tissue Engineering - Materials, Technologies and Clinical Applications. InTech Open Access Publisher, 2017.

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

**Influence of exercise history on fall-induced hip fracture risk.** / Abe, Shinya; Narra, Nathaniel; Nikander, Riku; Hyttinen, Jari; Kouhia, Reijo; Sievänen, Harri.

Proceeding of the 35th International Conference on Biomechanics in Sports: German Sport University Cologne, Cologne, Germany, June 14-18, 2017. ed. / Wolfgang Potthast; Anja Niehoff; Sina David. Vol. 1 2017. p. 464-467.

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

**Katsaus vähähiilisyden edistämiseen.** / Sorri, Jaakko; Edelman, Harry.

Tampereen teknillinen yliopisto, 2017. (Tampereen teknillinen yliopisto. Rakennustekniikan laboratorio. Rakennustuotanto ja -talous. Raportti; Vol. 21).

Research output: Working paper › Discussion paper › Professional

**Nonlinear Effects of Winter Swimming and Sauna Recreational Activities on the Heart Rate Variability.** / Potapov, Ilya; Haverinen, Samuli; Smolander, Juhani; Viik, Jari; Räsänen, Esa.

In: Computing in Cardiology, Vol. 44, 2017.

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

**Short- and Long-Range Correlations in Beat Rate Variability of Human Pluripotent-Stem-Cell-Derived Cardiomyocytes.** /

Kim, Jiyeong; Kuusela, Jukka; Aalto-Setälä, Katriina; Räsänen, Esa.

Computing in Cardiology 2017. Vol. 44 2017. (Computing in Cardiology).

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

**Biomaterials for Electronics.** / Pammo, Arno; Schouten, Martijn; Virtanen, Juhani; Tuukkanen, Sampo.

2016. 1-1.

Research output: Other conference contribution › Paper, poster or abstract › Scientific

**Porous polymer tubes for urethral tissue engineering.** / Lyyra, Inari; Hannula, Markus; Paakinaho, Kaarlo; Kellomäki, Minna.

2016. Paper presented at BioMediTech Research Day 2016, Tampere, Finland.

Research output: Other conference contribution › Paper, poster or abstract › Scientific

**The impact of acquisition dose on quantitative breast density estimation with digital mammography: results from ACRIN PA 4006.** / Chen, Lin; Ray, Shonket ; Keller, Brad; Pertuz, Said; McDonald, Elizabeth; Conant, Emily; Kontos, Despina.  
In: Radiology, Vol. 280, No. 3, 09.2016.

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

**Fully-automated quantitative estimation of volumetric breast density from digital breast tomosynthesis images.** / Pertuz, Said; McDonald, Elizabeth; Weinstein, Susan; Conant, Emily; Kontos, Despina.  
In: Radiology, Vol. 279, No. 1, 04.2016, p. 65-74.

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

**Health figures: an open source JavaScript library for health data visualization.** / Ledesma, Andres; Al-Musawi, Mohammed ; Nieminen, Hannu.

In: BMC Medical Informatics and Decision Making, Vol. 16, No. 1, 38, 22.03.2016.

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

**Comparison of injury severity between moped and motorcycle crashes : A finnish two-year prospective hospital-based study.** / Airaksinen, N.; Nurmi-Lüthje, I.; Lüthje, P.

In: Scandinavian Journal of Surgery, Vol. 105, No. 1, 01.03.2016, p. 49-55.

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

**Implementation and User Testing of a System for Visualizing Continuous Health Data and Events.** / Al-Musawi, Mohammed; Ledesma, Andres; Nieminen, Hannu; Korhonen, Ilkka.

2016 IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI) . IEEE, 2016. p. 156-159.

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

**Feature-based analysis of mouse prostatic intraepithelial neoplasia in histological tissue sections.** / Ruusuvoori, Pekka ; Valkonen, Mira; Nykter, Matti; Visakorpi, Tapio; Latonen, Leena.

In: Journal of Pathology Informatics, Vol. 7, No. 5, 29.01.2016.

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

**The influence of foodstuff grouping on doses in safety assessments.** / Pohjola, Jari ; Turunen, Jari ; Lipping, Tarmo; Ikonen, Ari.

Ninth International Conference on Nuclear and Radiochemistry - Nrc9. 2016. P2-118.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

**Cost effective potentiostat design for large dynamic range measurements.** / Virtanen, Juhani; Tuukkanen, Sampo. 2015. Paper presented at Micronano System Workshop, Espoo, Finland.

Research output: Other conference contribution › Paper, poster or abstract › Scientific

**Levosimendan alone and in combination with valsartan prevents stroke in Dahl salt-sensitive rats.** / Levijoki, Jouko; Kivikko, Matti; Pollesello, Piero; Sallinen, Jukka; Hyttilä-Hopponen, Minja; Kuoppamäki, Mikko; Haasio, Kristiina; Gröhn, Olli; Miettinen, Riitta; Puoliväli, Jukka; Tähtivaara, Leena; Yrjänheikki, Juha; Haapalinna, Antti.

In: European Journal of Pharmacology, Vol. 750, 05.03.2015, p. 132-40.

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

**Rate of cannabis use disorders in clinical samples of patients with schizophrenia : A meta-analysis.** / Koskinen, Johanna; Löhönen, Johanna; Koponen, Hannu; Isohanni, Matti; Miettunen, Jouko.

In: SCHIZOPHRENIA BULLETIN, Vol. 36, No. 6, 01.11.2010, p. 1115-1130.

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

**Coverage of the bibliographic databases in mental health research.** / Löhönen, Johanna; Isohanni, Matti; Nieminen, Pentti; Miettunen, Jouko.

In: NORDIC JOURNAL OF PSYCHIATRY, Vol. 64, No. 3, 2010, p. 181-188.

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

**A guide for medical information searches of bibliographic databases - psychiatric research as an example.** / Löhönen, Johanna; Isohanni, Matti; Nieminen, Pentti; Miettunen, Jouko.  
In: INTERNATIONAL JOURNAL OF CIRCUMPOLAR HEALTH, Vol. 68, No. 4, 15.10.2009, p. 394-404.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Prevalence of alcohol use disorders in schizophrenia - A systematic review and meta-analysis.** / Koskinen, Johanna; Löhönen, Johanna; Koponen, Hannu; Isohanni, Matti; Miettunen, Jouko.  
In: ACTA PSYCHIATRICA SCANDINAVICA, Vol. 120, No. 2, 01.08.2009, p. 85-96.  
Research output: Contribution to journal › Review Article › Scientific › peer-review

**Pathways leading to suicide in schizophrenia.** / Alaräisänen, Antti; Heikkinen, Johanna; Kianickova, Zuzana; Miettunen, Jouko; Räsänen, Pirkko; Isohanni, Matti.  
In: Current Psychiatry Reviews, Vol. 3, No. 4, 01.11.2007, p. 233-242.  
Research output: Contribution to journal › Review Article › Scientific › peer-review

**Lääketieteen kirjallisuustietokannat ja tiedonhaku.** / Heikkinen, Johanna; Isohanni, Matti; Miettunen, Jouko.  
In: Suomen Lääkärilehti, Vol. 62, No. 22, 2007, p. 2156-2170.  
Research output: Contribution to journal › Review Article › Scientific › peer-review