

The Definition of Informatics Competencies in Finnish Healthcare and Social Welfare Education

Värri, A., Tiainen, M., Rajalahti, E., Kinnunen, U. M., Saarni, L. & Ahonen, O., 16 Jun 2020, *Digital Personalized Health and Medicine: Proceedings of MIE 2020*. IOP Press, p. 1143-1147 5 p. (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, A., Hui, N., Puhakka, R., Oikarinen, S., Grönroos, M., Selonen, V. A. O., Siter, N., Kramna, L., Roslund, M. I., Vari, H. K., Nurminen, N., Honkanen, H., Hintikka, J., Sarkkinen, H., Romantschuk, M., Kauppi, M., Valve, R., Cinek, O., Laitinen, O. H., Rajaniemi, J., Hyöty, H. & Sinkkonen, A., 15 Apr 2020, In : *Science of the Total Environment*. 713, 8 p., 136707.

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, M., Koivisto, J. & Pikkarainen, M., 2020, In : *JOURNAL OF CLINICAL NURSING*. 29, p. 2338-2351 14 p.

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, M., Vuorinen, A. L., Harjumaa, M., Similä, H., Koivisto, J., Puhto, A-P., Vesty, G. & Pikkarainen, M., 2020, In : *Journal of Advanced Nursing*. 76, 6, p. 1436-1448 13 p.

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, M-M., Peltokangas, M., Lozano Montero, K., Siponkoski, T., Juuti, J., Tuukkanen, S., Oksala, N., Vehkaoja, A. & Mäntysalo, M., 15 Aug 2019, In : *IEEE Sensors Journal*.

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, P., Tikkakoski, A., Uitto, M., Viik, J., Bouquin, H., Niemelä, O., Mustonen, J. & Pörsti, I., Mar 2019, In : *Clinical Physiology and Functional Imaging*. 39, 2, p. 160-167 8 p.

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

Disposable Microfluidic Sensor Based on Nanocellulose for Glucose Detection

Uddin, K. M. A., Jokinen, V., Jahangiri, F., Franssila, S., Rojas, O. J. & Tuukkanen, S., Feb 2019, In : *Global Challenges*. 3, 2, 6 p.

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, H. L., French, R. L., Guo, C. C., Nguyen-Vu, T. D. B., Manninen, T. & Raymond, J. L., 2019, In : *eLIFE*. 8, 39 p., e37102.

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, A., O'Reilly, P. G., McLnerney, C. E., Roddy, A. C., Dunne, P. D., Gilmore, A., Ellis, H. P., Flannery, T., Healy, E., McIntosh, S. A., Savage, K., Kurian, K. M., Emmert-Streib, F., Prise, K. M., Salto-Tellez, M. & McArt, D. G., 13 Sep 2018, In : *JCO precision oncology*. 2

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, R., Kuismanen, K., Juntunen, M., Karjalainen, S., Hannula, M., Kyllönen, L., Hyttinen, J., Huhtala, H., Paakinaho, K. & Miettinen, S., 1 Aug 2018, In : *Royal Society Open Science*. 5, 8, 180811.

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, S., Narra Girish, N., Nikander, R., Hyttinen, J., Kouhia, R. & Sievänen, H., 25 Jul 2018, In : *Journal of Biomechanics*. 76, p. 136-143 8 p.

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, N., Startceva, S., Palma, C., Bahrudeen, M., Oliveira, S. & Ribeiro, A. S., Jan 2018, In : *Physical Biology*. 15, 2

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, M., Casini, S., Bellin, M., Hyttinen, J. & Severi, S., 2018, In : *International Journal of Molecular Sciences*. 19, 11

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

Modeling and Engineering Promoters with Pre-defined RNA Production Dynamics in *Escherichia Coli*

Oliveira, S. M. D., Bahrudeen, M. N. M., Startceva, S., Kandavalli, V. & Ribeiro, A. S., 2018, *Computational Methods in Systems Biology - 16th International Conference, CMSB 2018, Proceedings*. Springer Verlag, p. 3-20 18 p. (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

Värri, A., Kallonen, A., Helander, E., Ledesma Figueroa, A. & Pladys, P., 2018, In : *Finnish Journal of eHealth and eWelfare*. 10, 2-3, p. 330-333 4 p.

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

Abstract: High-resolution live cell imaging during mechanical vibration loading

Halonen, H., Ihalainen, T. & Hyttinen, J., 26 Oct 2017, p. 24-24. 1 p.

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, L., Makkonen, H., Aarikka-Stenroos, L., Luhtala, L. & Mäkinen, S., 20 Sep 2017, *Association for Computing Machinery, ACM: AcademicMindtrek'17, Sept. 20th-21st, 2017 Tampere Hall, Tampere, Finland*. Tampere, Finland: ACM Press, 10 p.

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, J., 1 Aug 2017.

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

Effect of Implant Coating on Wireless Powering for Intracranial Pressure Monitoring System

Khan, W., Rizwan, M., Behfar, M., Sydänheimo, L., Björninen, T. & Ukkonen, L., 10 Jul 2017, *Proceedings of 2017 IEEE AP-S/URSI*. IEEE, 2 p. (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, H., Ihalainen, T. & Hyttinen, J., 7 Jul 2017, p. 49-49. 1 p.

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

Abstract: Vibration stimulator for microscopy of fast cell responses

Halonen, H., Ihalainen, T. & Hyttinen, J., 2 Jul 2017. 1 p.

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

Examining service experiences: comparing methods to capture children's experiences

Litovuo, L., Aarikka-Stenroos, L., Kaipio, J. & Karisalmi, N., 9 Jun 2017, *The 5th Naples Forum on Service 2017 proceedings: Sorrento, Naples, Italy 6-9 June 2017*. Gummesson, E., Mele, C. & Polese, F. (eds.). SIMAS di Salerno for Naples Forum on Service, 20 p.

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

Foundational eHealth Curricula for the health care workforce

Värri, A. & Tolonen, J., 23 May 2017, p. 1-6. 6 p.

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

EU*US eHealth Works to Improve Global Workforce Development

Blake, R., Shaw, T., Blake, A., Hübner, U., Kaye, R., Schug, S., Thye, J. & Värri, A., 7 Mar 2017, *HIMSS White Papers*. Healthcare Information and Management Systems Society, p. 1-12 12 p.

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

Association of exercise loading history with fall-induced hip fracture risk.

Abe, S., Narra, N., Nikander, R., Hyttinen, J., Kouhia, R. & Sievänen, H., 2017.

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, A. & Massera, J., 2017, *Scaffolds in Tissue Engineering - Materials, Technologies and Clinical Applications*. InTech Open Access Publisher, 19 p.

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

Influence of exercise history on fall-induced hip fracture risk.

Abe, S., Narra, N., Nikander, R., Hyttinen, J., Kouhia, R. & Sievänen, H., 2017, *Proceeding of the 35th International Conference on Biomechanics in Sports: German Sport University Cologne, Cologne, Germany, June 14-18, 2017*. Potthast, W., Niehoff, A. & David, S. (eds.). Vol. 1. p. 464-467 4 p.

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

Katsaus vähähiilisyden edistämiseen

Sorri, J. & Edelman, H., 2017, Tampereen teknillinen yliopisto, 56 p. (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, I., Haverinen, S., Smolander, J., Viik, J. & Räsänen, E., 2017, In : *Computing in Cardiology*. 44, 4 p.

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, J., Kuusela, J., Aalto-Setälä, K. & Räsänen, E., 2017, *Computing in Cardiology 2017*. Vol. 44. 4 p. (Computing in Cardiology).

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

Biomaterials for Electronics

Pammo, A., Schouten, M., Virtanen, J. & Tuukkanen, S., 25 Nov 2016, p. 1-1. 1 p.

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

Porous polymer tubes for urethral tissue engineering

Lyyra, I., Hannula, M., Paakinaho, K. & Kellomäki, M., 25 Nov 2016.

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, L., Ray, S., Keller, B., Pertuz, S., McDonald, E., Conant, E. & Kontos, D., Sep 2016, In : *Radiology*. 280, 3

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

Fully-automated quantitative estimation of volumetric breast density from digital breast tomosynthesis images

Pertuz, S., McDonald, E., Weinstein, S., Conant, E. & Kontos, D., Apr 2016, In : *Radiology*. 279, 1, p. 65-74

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

Health figures: an open source JavaScript library for health data visualization

Ledesma, A., Al-Musawi, M. & Nieminen, H., 22 Mar 2016, In : BMC Medical Informatics and Decision Making. 16, 1, 38.
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., 1 Mar 2016, In : Scandinavian Journal of Surgery. 105, 1, p. 49-55 7 p.
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, M., Ledesma, A., Nieminen, H. & Korhonen, I., Feb 2016, *2016 IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI)*. IEEE, p. 156-159 4 p.
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

Ruusuvuori, P., Valkonen, M., Nykter, M., Visakorpi, T. & Latonen, L., 29 Jan 2016, In : Journal of Pathology Informatics. 7, 5
Research output: Contribution to journal › Article › Scientific › peer-review

The influence of foodstuff grouping on doses in safety assessments

Pohjola, J., Turunen, J., Lipping, T. & Ikonen, A., 2016, *Ninth International Conference on Nuclear and Radiochemistry - Nrc9*. P2-118
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

Cost effective potentiostat design for large dynamic range measurements

Virtanen, J. & Tuukkanen, S., 15 May 2015. 1 p.
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, J., Kivikko, M., Pollesello, P., Sallinen, J., Hyttilä-Hopponen, M., Kuoppamäki, M., Haasio, K., Gröhn, O., Miettinen, R., Puoliväli, J., Tähtivaara, L., Yrjänheikki, J. & Haapalinna, A., 5 Mar 2015, In : European Journal of Pharmacology. 750, p. 132-40 9 p.
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, J., Löhönen, J., Koponen, H., Isohanni, M. & Miettunen, J., 1 Nov 2010, In : SCHIZOPHRENIA BULLETIN. 36, 6, p. 1115-1130 16 p.
Research output: Contribution to journal › Review Article › Scientific › peer-review

Coverage of the bibliographic databases in mental health research

Löhönen, J., Isohanni, M., Nieminen, P. & Miettunen, J., 2010, In : NORDIC JOURNAL OF PSYCHIATRY. 64, 3, 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, J., Isohanni, M., Nieminen, P. & Miettunen, J., 15 Oct 2009, In : INTERNATIONAL JOURNAL OF CIRCUMPOLAR HEALTH. 68, 4, p. 394-404 11 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Prevalence of alcohol use disorders in schizophrenia - A systematic review and meta-analysis

Koskinen, J., Löhönen, J., Koponen, H., Isohanni, M. & Miettunen, J., 1 Aug 2009, In : ACTA PSYCHIATRICA SCANDINAVICA. 120, 2, p. 85-96 12 p.
Research output: Contribution to journal › Review Article › Scientific › peer-review

Pathways leading to suicide in schizophrenia

Alaräisänen, A., Heikkinen, J., Kianickova, Z., Miettunen, J., Räsänen, P. & Isohanni, M., 1 Nov 2007, In : *Current Psychiatry Reviews*. 3, 4, p. 233-242 10 p.

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

Lääketieteen kirjallisuustietokannat ja tiedonhaku

Heikkinen, J., Isohanni, M. & Miettunen, J., 2007, In : *Suomen Lääkärilehti*. 62, 22, p. 2156-2170

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