

### **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**

Translated title of the contribution: : SEARCHING FOR INFORMATION IN MEDICAL DATABASES, WITH PSYCHIATRY AS AN EXAMPLE

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