


Dang, Dinh Duong; Pekkola, Samuli / Problems of enterprise architecture adoption in the public sector: root causes and some solutions.
Rossi, Matti; Smolander, Kari; Pekkola, Samuli / Digitaalinen alustatalous. 
Research output: Professional › Chapter

Stormi, Kati; Laine, Teemu; Suomala, Petri; Elomaa, Tapio / Forecasting sales in industrial services: modeling business potential with installed base information.
Research output: Scientific - peer-review › Article

Tsantekidis, Avraam; Passalis, Nikolaos; Tefas, Anastasios; Kannaiainen, Juho; Gabbouj, Moncef; Iosifidis, Alexandros / Forecasting stock prices from limit order book using convolutional neural networks.
Research output: Scientific - peer-review › Conference contribution

Smolander, Kari; Rossi, Matti; Pekkola, Jyri Samuli / Infrastructures, integration and architecting during and after digital transformation.
Research output: Scientific - peer-review › Chapter

Vilminko-Heikkinen, Riikka ; Pekkola, Samuli / Master data management and its organizational implementation: an ethnographical study within the public sector.
Research output: Scientific - peer-review › Article

Lohan, Elena-Simona; Nurmi, Jari; Seco-Granados, Gonzalo; Wymeersch, Henk; Nykänen, Ossi / MULTI-POS: Lessons Learnt from Fellows and Supervisors.
Research output: Scientific - peer-review › Chapter

Koivisto, Jaana-Maija; Niemi, Hannele; Multisilta, Jari ; Eriksson, Elina / Nursing students' experiential learning processes using an online 3D simulation game.
Research output: Scientific - peer-review › Article

Muravev, Anton; Ozan, Ezgi; Iosifidis, Alexandros; Gabbouj, Moncef / Pyramid Encoding for Fast Additive Quantization.
Research output: Scientific - peer-review › Conference contribution

Pertiä, Pasi; Cakir, Emre / Robust Direction Estimation with Convolutional Neural Networks-based Steered Response Power.
Research output: Scientific - peer-review › Conference contribution

Torro, Osku ; Pirkkalainen, Henri / Strengthening social ties via ICT in the organization.
Research output: Scientific - peer-review › Conference contribution

Dang, Dinh Duong; Pekkola, Samuli / Systematic literature review on enterprise architecture in the public sector.
Research output: Scientific - peer-review › Article
Gupta, Jayesh Prakash; Menon, Karan; Kärkkäinen, Hannu; Huhtamäki, Jukka; Mukkamala, Raghava Rao; Hussain, Abid; Vatrapu, Ravi; Jussila, Jari; Pirkkalainen, Henri / Identifying weak ties from publicly available social media data in an event.

Vuori, Vilma; Jussila, Jari / The 5C categorization of social media tools.

Muzaffar, Ahmad; Saari, Mika; Sillberg, Pekka; Rantanen, Petri; Soini, Jari; Kudora, Tadahiro / Low-energy algorithm for self-controlled wireless sensor nodes.

Jussila, Jari; Helander, Nina; Vuori, Vilma; Okkonen, Jussi / Sosiaalinen media brändi- ja asiakastiedon lähteenä.

Jalonen, Harri; Jussila, Jari / Developing a conceptual model for the relationship between social media behavior, negative consumer emotions and brand disloyalty.


Väätäjä, Heli; Ahtinen, Aino / Integrating mobile orienteering to team forming activity in a software engineering course.

Aramo-Immonen, H.; Ammirato, S.; Jussila, J. / Blogging as a virtual co-learning environment in the international course context.

Jussila, Jari; Aramo-Immonen, Heli / Experienced risks in social media use – longitudinal study among university students.
Parascandolo, Giambattista; Huttunen, Heikki; Virtanen, Tuomas / Recurrent Neural Networks for Polyphonic Sound Event Detection in Real Life Recordings.
Research output: Scientific - peer-review › Conference contribution

Cortes, Santiago; Suominen, Olli; Gotchev, Atanas / Depth Assisted Composition of Synthetic and Real 3D Scenes.
Research output: Scientific - peer-review › Conference contribution

Shcherban, Maria; Suominen, Olli; Gotchev, Atanas / Non-uniform resampling in perspective compensated large scale 3D visualization.
Electronic Imaging: 3D Image Processing, Measurement (3DIPM), and Applications. IS&T/SPIE, 2016.
Research output: Scientific - peer-review › Conference contribution

Aramo-Immonen, Heli; Kärkkäinen, Hannu; Jussila, Jari; Joel-Edgar, Sian; Huhtamäki, Jukka / Visualizing informal learning behavior from conference participants’ Twitter data with the Ostinato Model.
Research output: Scientific - peer-review › Article

Vermeeren, Arnold P.O.S.; Roto, Virpi; Väänänen, Kaisa / Design-inclusive UX research: design as a part of doing user experience research.
Research output: Scientific - peer-review › Article

Kuosa, Kirsi; Distante, Damiano; Tervakari, Anne; Cerulo, Luigi; Fernández, Alejandro; Koro, Juho; Kailanto, Meri / Interactive Visualization Tools to Improve Learning and Teaching in Online Learning Environments.
Research output: Scientific - peer-review › Article

Tuisku, Outi; Rantanen, Ville; Spakov, Oleg; Surakka, Veikko; Lekkala, Jukka / Pointing and Selecting with Facial Activity.
Research output: Scientific - peer-review › Article

Research output: Scientific - peer-review › Conference contribution

Nikunen, Joonas; Diment, Aleksandr; Virtanen, Tuomas; Vilermo, Miikka / Binaural rendering of microphone array captures based on source separation.
Research output: Scientific - peer-review › Article

Research output: Scientific - peer-review › Article

Niemi, Hannele; Multisilta, Jari / Digital storytelling promoting twenty-first century skills and student engagement.
Research output: Scientific - peer-review › Article
Mehta, Rakesh; Egiazarian, Karen / Dominant Rotated Local Binary Patterns (DRLBP) for texture classification.  
Research output: Scientific - peer-review › Article

Saari, Mika; Baharudin, Ahmad ; Sillberg, Pekka; Rantanen, Petri; Soini, Jari / Embedded Linux Controlled Sensor Network.  
Research output: Scientific - peer-review › Conference contribution

Kannisto, Petri; Hästbacka, David / Enabling Centralised Management of Local Sensor Data Refinement in Machine Fleets.  
Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Article

Eloranta, Veli-Pekka; Koskimies, Kai; Mikkonen, Tommi / Exploring ScrumBut—An empirical study of Scrum anti-patterns.  
Research output: Scientific - peer-review › Article

Olsson, Thomas; Jarusriboonchai, Pradthana; Paasovaara, Susanna; Ojala, Jarno; Olshannikova, Ekaterina; Malapachas, Aris; Väänänen, Kaisa / How to Evaluate the Social Effects and User Experience of Systems Enhancing Collocated Interactions?  
Research output: Professional › Conference contribution

Oliveira, Samuel M.D.; Neeli-Venkata, Ramakanth; Goncalves, Nadia S.M.; Santinha, Joao; Martins, Leonardo; Tran, Huy; Mäkelä, Jarno; Gupta, Abhishek; Barandas, Marilia; Häkkinen, Antti; Lloyd-Price, Jason; Fonseca, Jose M.; S. Ribeiro, Andre / Increased cytoplasm viscosity hampers aggregate polar segregation in Escherichia coli.  
Research output: Scientific - peer-review › Article

Chukhman, Ilya; Jiao, Yang; Salem, Haifa Ben; Bhattacharyya, Shuvra S. / Instrumentation-Driven Validation of Dataflow Applications.  
Research output: Scientific - peer-review › Article

Sumiala, Johanna; Tikka, Minttu; Huhtamäki, Jukka; Valaskivi, Katja / #JeSuisCharlie: Towards a Multi-Method Study of Hybrid Media Events.  
Research output: Scientific - peer-review › Article

Research output: Scientific - peer-review › Article

Vehmas, Risto / Liikekompensaatio- ja autofokusmenetelmät SAR- ja ISAR-tutkien signaalinkäsittelyssä.  
Research output: Professional › Book
Urinary thrombomodulin levels were significantly higher following occupational exposure to chemicals, in the presence of dipstick protein, but not in the presence of dipstick blood.

Research output: Scientific - peer-review → Article

Visualizing co-authorship networks for actionable insights: action design research experiment.

Research output: Scientific - peer-review → Conference contribution

Using multi-step proposal distribution for improved MCMC convergence in Bayesian network structure learning.

Research output: Scientific - peer-review → Article

Context Awareness for Navigation Applications.
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Dual-Mode Congestion Control Mechanism for Video Service.

Research output: Scientific - peer-review → Conference contribution

Management of distributed knowledge encapsulated in embedded devices.

Research output: Scientific - peer-review → Article

Generative part-based Gabor object detector.

Research output: Scientific - peer-review → Article

A State Space Tool for Concurrent System Models Expressed In C++.

Research output: Scientific - peer-review → Conference contribution

Lossy-to-lossless progressive coding of depth-map images using competing constant and planar models.

Research output: Scientific - peer-review → Conference contribution

Priority Queue Classes with Priority Update.

Research output: Scientific - peer-review → Conference contribution
Korhonen, Ville; Jääskeläinen, Pekka; Koskela, Matias; Viitanen, Timo; Takala, Jarmo / Rapid Customization of Image Processors Using Halide.
Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Conference contribution

Vagharshakyan, Suren; Bregovic, Robert; Gotchev, Atanas / Tree-structured algorithm for efficient shearlet-domain light field reconstruction.
Research output: Scientific - peer-review › Conference contribution

Külli, Kristian; Devlin, Keith; Multisilta, Jari / Editorial: is Game-Based Math Learning Finally Coming of Age?
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Research output: Scientific › Editorial

Kultala, Heikki; Viitanen, Timo; Jääskeläinen, Pekka; Helkala, Janne; Takala, Jarmo / Improving Code Density with Variable Length Encoding Aware Instruction Scheduling.
Research output: Scientific - peer-review › Article

Äijö, Tomi; Jääskeläinen, Pekka; Eломаа, Tapio; Kultala, Heikki; Takala, Jarmo / Integer Linear Programming-Based Scheduling for Transport Triggered Architectures.
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Kellomäki, Timo / Large-Scale Water Simulation in Games.
Tampere University of Technology, 2015. 91 p. (Tampere University of Technology. Publication; Vol. 1354).
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Hietanen, Antti; Lankinen, Jukka; Kämäräinen, Joni-Kristian; Buch, Anders Glent; Krüger, Norbert / A comparison of feature detectors and descriptors for object class matching.
In: Neurocomputing, Vol. 184, 02.12.2015, p. 3-12.
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Raitoharju, Matti; Ali-Löytty, Simo; Piché, Robert / Binomial Gaussian mixture filter.
Research output: Scientific - peer-review › Article

Homayouni, Maryam; Aflaki, Payman; Hannuksela, Miska M.; Gabbouj, Moncef / Perceptually adaptive filtering for stereoscopic video compression.
Research output: Scientific - peer-review › Conference contribution

He, Yuan; Molchanov, Pavlo; Sakamoto, Takuya; Aubry, Pascal; Le Chevalier, Francois; Yarovoy, Alexander / Range-Doppler surface: A tool to analyse human target in ultra-wideband radar.
Research output: Scientific - peer-review › Article

Pavel, Misha; Jimison, Holly B; Korhonen, Ilkka; Gordon, Christine M; Saranummi, Niilo / Behavioral Informatics and Computational Modelling in Support of Proactive Health Management and Care.
Ahtinen, Aino / Istujat liikkumaan!
In: Tampereen Kauppakamarilehti, No. 6, 12.2015, p. 8.
Research output: General public › Comment/debate

Christophe, Francois; Andalibi, Vafa; Laukkanen, Teemu; Mikkonen, Tommi; Koskimies, Kai / Survey and evaluation of neural computation models for bio-integrated systems.
Research output: Scientific - peer-review › Review Article

Astola, Helena / Algebraic and Combinatorial Methods for Error-Correcting Codes with Applications to Fault-Tolerant Logic.
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Gupta, Abhishekh / Effects of Intracellular and Partitioning Asymmetries in Escherichia coli.
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Zabihi, Morteza; Kiranyaz, Serkan; Bahrami Rad, Ali; Kastaggelos, Aggelos K.; Gabbouj, Moncef; Ince, Turker / Analysis of high-dimensional phase space via Poincaré section for patient-specific seizure detection.
Research output: Scientific - peer-review › Article

Hackenberg, Jan; Spiecker, Heinrich; Calders, Kim; Disney, Mathias; Raumonen, Pasi / SimpleTree : An Efficient Open Source Tool to Build Tree Models from TLS Clouds.
Research output: Scientific - peer-review › Article

Tukiainen, Mika ; Helander, Nina ; Mäkinen, Marita / MYSTERY SHOPPERS RECOGNISING KNOWLEDGE SHARING BARRIERS IN HIGHER EDUCATION.
Research output: Scientific - peer-review › Conference contribution

Tukiainen, Mika ; Mäkinen, Marita; Helander, Nina / University Students' Perceptions of Academic Writing: An Academic Literacies Perspective.
Research output: Scientific - peer-review › Conference contribution

Taibi, Davide; Lenarduzzi, Valentina; Fagerholm, Fabian; Münch, Jürgen; Ovais Ahmad, Muhammad; Liukkunen, Kari; Pietinen, Sami; Tukiainen, Markku; Lunesu, Ilaria; Matta, Martina; Fernández-Sánchez, Carlos; Garbajosa, Juan; Systä, Kari / "Free" Innovation Environments: Lessons learned from the Software Factory Initiatives.
Research output: Scientific - peer-review › Conference contribution

Kuusinen, Kati / Integrating UX Work in Agile Enterprise Software Development.
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Palviainen, Jarmo; Rezaei, Parisa Pour / The Next Level of User Experience of Cloud Storage Services: Supporting Collaboration with Social Features.
Research output: Scientific - peer-review › Conference contribution

Viikinkoski, M.; Kaasalainen, M.; Durech, J.; Carry, B.; Marsset, M.; Fusco, T.; Dumas, C.; Merline, W. J.; Yang, B.; Berthier, J.; Kervella, P.; Vernazza, P. / VLT/SPHERE- and ALMA-based shape reconstruction of asteroid (3) Juno.
Research output: Scientific - peer-review › Article

Heinimäki, Teemu J.; Elomaa, Tapio / Augmenting Technology Trees: Automation and Tool Support.
Research output: Scientific - peer-review › Conference contribution

Mattila, Anna-Liisa; Luoto, Antti; Terho, Henri; Hylli, Jaakko; Sievi-Korte, Outi; Systä, Kari / Unified Model for Software Engineering Data.
Research output: Scientific - peer-review › Conference contribution

Samiee, Kaveh; Kovacs, Peter; Kiranyaz, Serkan; Gabbouj, Moncef; Saramäki, Tapio / Sleep stage classification using sparse rational decomposition of single channel EEG records.
Research output: Scientific - peer-review › Conference contribution

Pearson, Ronald K.; Neuvo, Yrjö; Astola, Jaakko; Gabbouj, Moncef / The Class of Generalized Hampel Filters.
Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Article

Kuusinen, Kati / Overcoming challenges in agile user experience work: Cross-case analysis of two large software organizations.
Research output: Scientific - peer-review › Conference contribution

Koskinen, Jukka A. / Surveys of daily information security of citizens in Finland.
Research output: Scientific - peer-review › Conference contribution

Väyrynen, Hannele ; Vasell, Tytti; Helander, Nina ; Boedeker, Mika; Andersson, Tuula / The Role of Customer Experience in Value Creation in Business-to-Business Context.
Research output: Professional › Conference contribution

Rane, Jayant K.; Ylipää, Antti; Adamson, Rachel; Mann, Vincent M.; Simms, Matthew S.; Collins, Anne T.; Visakorpi, Tapio; Nykter, Matti; Maitland, Norman J. / Construction of therapeutically relevant human prostate epithelial fate map by utilising miRNA and mRNA microarray expression data.
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Dumitrescu, Bogdan; Rusu, Cristian; Tabus, Ioan; Astola, Jaakko / Low-complexity robust DOA estimation. ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings. The Institute of Electrical and Electronics Engineers, Inc., 2015. p. 2794-2798.
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Research output: Scientific - peer-review › Article

Syrjarinne, Paula; Nummenmaa, Jyrki; Thanisch, Peter; Kerminen, Riitta; Hakulinen, Esa / Analysing traffic fluency from bus data. In: IET Intelligent Transport Systems, Vol. 9, No. 6, 01.08.2015, p. 566-572.
Research output: Scientific - peer-review › Article


Evchina, Yulia; Puttonen, Juha; Dvoryanchikova, Aleksandra; Martinez Lastra, Jose Luis / Context-aware knowledge-based middleware for selective information delivery in data-intensive monitoring systems. In: Engineering Applications of Artificial Intelligence, Vol. 43, 08.2015, p. 111-126.


Tran, Huy; Oliveira, Samuel M.D. Dias; Goncalves, Nadia; Ribeiro, Andre S. / Kinetics of the cellular intake of a gene expression inducer at high concentrations.
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Research output: Scientific - peer-review › Article

Rantala, M.; Soini, J.; Kilamo, T. / Gathering useful programming data; Analysis and insights from real-time collaborative editing.
Research output: Scientific - peer-review › Conference contribution

El Din, Menatalia Shehab; El-Tarhuni, Mohamed; Assaleh, Khaled; Kiranyaz, Serkan / An HMM-based spectrum access algorithm for cognitive radio systems.
Research output: Scientific - peer-review › Conference contribution

Carrera, Diego; Boracchi, Giacomo; Foi, Alessandro; Wohlbarg, Brendt / Detecting Anomalous Structures by Convolutional Sparse Models.
Research output: Scientific - peer-review › Conference contribution

Georgiev, Mihail; Belyaev, Evgeny; Gotchev, Atanas / Depth Map Compression Using Color-Driven Isotropic Segmentation and Regularised Reconstruction.
Research output: Scientific - peer-review › Conference contribution

Zhu, Shuyuan; Zeng, Bing; Gabbouj, Moncef / Adaptive sampling for compressed sensing based image compression.
Research output: Scientific - peer-review › Article

Ferrer, Borja Ramis; Ahmad, Bilal; Lobov, Andrei; Vera, Daniel; Martinez Lastra, Jose L. Martinez; Harrison, Robert / A knowledge-based solution for automatic mapping in component based automation systems.
Research output: Scientific - peer-review › Conference contribution

Iarovyi, Sergii; Martinez Lastra, Jose L.; Haber, Rodolfo; del Toro, Raul / From artificial cognitive systems and open architectures to cognitive manufacturing systems.
Research output: Scientific - peer-review › Conference contribution

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Research output: Scientific - peer-review › Conference contribution

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Aytekin, Caglar; Rezaeitabar, Yousef; Dogru, Sedat; Ulusoy, Ilkay / Railway fastener inspection by real-time machine vision.
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Research output: Scientific › Editorial

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Research output: Scientific - peer-review › Conference contribution

Silverajan, Bilhanan; Luoma, Juha-Pekka; Vajaranta, Markku; Itäpuro, Riku / Collaborative cloud-based management of home networks.
Research output: Scientific - peer-review › Conference contribution

Koskinen, Jukka Antero / E-learning of ethics, awareness, hacking and research by information security majors.
Research output: Scientific - peer-review › Conference contribution

Vihonen, Juho; Honkakorpi, Janne; Mattila, Jouni; Visa, Ari / Novel pairwise coupled kinematic solution for algebraic angular acceleration estimation of serial link manipulators.
Research output: Scientific - peer-review › Conference contribution

Abramova, V. V.; Kozhemiakin, R.; Abramov, S. K.; Lukin, V. V.; Zelensky, A. A.; Egiazarian, K. / Blind estimation of speckle variance in synthetic aperture radar images.
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Valmari, Antti / Stop It, and Be Stubborn!
Research output: Scientific - peer-review › Conference contribution

Dehmer, Matthias; Emmert-Streib, Frank; Shi, Yongtang / Graph distance measures based on topological indices revisited.
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Acimovic, Jugoslava; Mäki-Marttunen, Tuomo; Linne, Marja-Leena / The effects of neuron morphology on graph theoretic measures of network connectivity: The analysis of a two-level statistical model.
Research output: Scientific - peer-review › Article

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Research output: Scientific - peer-review › Conference contribution

Samiee, Kaveh; Kiranyaz, Serkan; Gabbouj, Moncef; Saramäki, Tapio / Long-term epileptic EEG classification via 2D mapping and textural features.
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Tuomi, Pauliina / Inviting the Audience: – Interactive, Participatory, and Social Television in Finland.

Research output: Collection of articles › Doctoral Thesis

Veskimäe, Kristina; Staff, Synnöve; Tabaro, Francesco; Nykter, Matti; Isola, Jorma; Mäenpää, Johanna / Microarray analysis of differentially expressed genes in ovarian and fallopian tube epithelium from risk-reducing salpingo-oophorectomies.
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Hongxing, Hao; Bloucas-Dias, Jose M.; Katkovnik, Vladimir / Interferometric Phase Image Estimation via Sparse Coding in the Complex Domain.
Research output: Scientific - peer-review › Article

Ruokonen, Anna; Hylli, Otto; Lahtinen, Samuel / Towards Open Data for Personal Web Tasking.
Research output: Scientific - peer-review › Conference contribution

Chua, C Y; Liu, Y; Granberg, K J; Hu, L; Haapasalo, H; Annala, M J; Cogdell, D E; Verploegen, M; Moore, L M; Fuller, G N; Nykter, M; Caveen, W; Zhang, W / IGFBP2 potentiates nuclear EGFR-STAT3 signaling.
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Martins, Leonardo; Fonseca, Jose; Ribeiro, Andre / miSimBa - a simulator of synthetic time-lapsed microscopy images of bacterial cells.
Research output: Scientific - peer-review › Conference contribution

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Research output: Scientific - peer-review › Article

Yli-Hietanen, Jari; Ylipää, Antti; Yli-Harja, Olli / Cancer research in the era of next-generation sequencing and big data calls for intelligent modeling.
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Xiao, Jimin; Hannuksela, Miska M.; Tillo, Tammam; Gabbouj, Moncef; Zhu, Ce; Zhao, Yao / Scalable bit allocation between texture and depth views for 3-D video streaming over heterogeneous networks.
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Research output: Scientific - peer-review → Article

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