Utilization of Models for Online Estimation in Combustion Applications. / Korpela, Timo.
Tampere University of Technology, 2017. 84 p. (Tampere University of Technology. Publication; Vol. 1496).
Research output: Collection of articles › Doctoral Thesis

Research output: Scientific › Digital or Visual Products

Indirect NOx emission monitoring in natural gas fired boilers. / Korpela, Timo; Kumpulainen, Pekka; Majanne, Yrjö; Häynänen, Anna; Lautala, Pentti.
In: Control Engineering Practice, Vol. 65, 01.08.2017, p. 11-25.
Research output: Scientific - peer-review › Article

Utilization of Drum Boilers' Storage Capacity for Flexible Operation. / Majanne, Yrjö; Yli-Fossi, Timo; Korpela, Timo; Nurmonanta, Maria; Kortela, Jukka.
Research output: Scientific - peer-review › Conference contribution

Monocular vision-based range estimation supported by proprioceptive motion. / Davidson, P.; Raunio, J.-P.; Piche, R.
Research output: Scientific - peer-review › Article

Stability-Guaranteed Nonlinear Model-Based Control of Hydraulic Robotic Manipulators. / Koivumäki, Janne.
Tampere University of Technology, 2016. 71 p. (Tampere University of Technology. Publication; Vol. 1446).
Research output: Collection of articles › Doctoral Thesis

State Estimation for a Class of Piecewise Affine State-Space Models. / Rui, Rafael; Ardestchi, Tohid; Nurminen, Henri; Bazanella, Alexandre; Gustafsson, Fredrik.
Research output: Scientific - peer-review › Article

Model-based force and position tracking control of an asymmetric cylinder with a digital hydraulic valve. / Linjama, Matti; Huova, Mikko; Huhtala, Kalevi.
Research output: Scientific - peer-review › Article

Planning for robotic exploration based on forward simulation. / Lauri, Mikko; Ritala, Risto.
Research output: Scientific - peer-review › Article

Rantanen, Ville (Author); Verho, Jarmo (Author); Vehkaoja, Antti (Author); Veselý, Petr (Author). 2016. Combating Unilateral Facial Paralysis With Low-Latency Muscle Reanimation. National Instruments. .
Research output: Scientific › Digital or Visual Products

Fuel optimal controller for hydrostatic drives and real-world experiments on a wheel loader. / Backas, Joni; Ghabcheloo, Reza; Tikkanen, Seppo; Huhtala, Kalevi.
Research output: Scientific - peer-review › Article

Rantanen, Ville (Author); Vehkaoja, Antti (Author); Verho, Jarmo (Author); Lekkala, Jukka (Author); Ilves, Mirja (Author); Lyykangas, Jari (Author); Surakka, Veikko (Author); Mäkelä, Eeva (Author); Rautiainen, Markus (Author); Veselý, Petr (Author). 2016. Mimetic Interfaces Project: Eye Blink Pacing.
Research output: Scientific › Digital or Visual Products

Constrained Global Path Optimization for Articulated Steering Vehicles. / Choi, Ji-Wung; Huhtala, Kalevi.
Research output: Scientific - peer-review › Article
An ICT-driven Hybrid Automation System for Elderly Care Support: A Rehabilitation Facility Study Case. / Evchina, Yulia; Martínez Lastra, José Luis.
In: Journal of Housing for the Elderly, Vol. 30, No. 1, 15.03.2016, p. 52-74.
Research output: Scientific - peer-review » Article

Product, process and resource model coupling for knowledge-driven assembly automation. / Ramis Ferrer, Borja; Ahmad, Bilal; Vera, Daniel; Lobov, Andrei; Harrison, Robert; Martínez Lastra, José Luis.
Research output: Scientific - peer-review » Article

Longitudinal study on text entry by gazing and smiling. / Tuisku, Outi; Rantanen, Ville; Surakka, Veikko.
Research output: Scientific - peer-review » Conference contribution

High strain rate radial compression of Norway spruce earlywood and latewood. / Moilanen, Carolina S.; Björkqvist, Tomas; Engberg, Birgitta A.; Salminen, Lauri I.; Saarenrinne, Pentti.
Research output: Scientific - peer-review » Article

A novel micro-robotic approach to study the environmental degradation of matrix and fibre materials. / Sarlin, Essi; Essen von, Mathias; Lindgren, Mari; Kallio, Pasi; Vuorinen, Jyrki.
Research output: Scientific » Conference contribution

Cyber-Physical Systems for Open-Knowledge-Driven Manufacturing Execution Systems. / Iarovyi, Sergii; Mohammed, Wael M.; Lobov, A.; Ramis Ferrer, Borja; Martínez Lastra, José L.
Research output: Scientific - peer-review » Article

Design and simulation of a thermal flow sensor for gravity-driven microfluidic applications. / Mäki, Antti-Juhana; Kontunen, Anton; Rynänen, Tomi; Verho, Jarmo; Kreutzer, Joose; Lekkala, Jukka; Kallio, Pasi.
Research output: Scientific - peer-review » Conference contribution

Determination of environmental degradation of matrix and fibre materials with a novel, statistically reliable micro-robotic approach. / Sarlin, Essi; Essen von, Mathias; Palola, Sarianna; Lindgren, Mari; Kallio, Pasi; Vuorinen, Jyrki.
Research output: Scientific - peer-review » Conference contribution

Functionality Testing of Water Pressure and Flow Calculation for Dynamic Power Plant Modelling. / Yli-Fossi, Timo.
Research output: Scientific - peer-review » Conference contribution

Gain-Scheduled Composite Nonlinear Feedback Control of an Exothermic Chemical Reactor. / Pyrhönen, Veli-Pekka; Koivisto, Hannu.
Research output: Scientific - peer-review » Conference contribution
Оценка дальности на основе монокулярного зрения и проприоцептивного движения. / Davidson, Pavel; Raunio, Jukka-Pekka; Piche, Robert.
Research output: Scientific - peer-review › Article

NOx-пäästöjen epäsuoria monitorointi maakaasu- ja öljykäyttöisissä lämpövoimalaitoksissa. / Korpela, Timo; Kumpulainen, Pekka; Majanne, Yrjö; Häyrinen, Anna.
Research output: Professional › Commissioned report

Real Time Monitoring of Environmental Efficiency of Power Plants. / Majanne, Yrjö; Korpela, Timo; Judl, Jáchym; Koskela, Sirkka; Laukkanen, Ville; Häyrinen, Anna.
Research output: Scientific - peer-review › Conference contribution

On-Board Electronic Control Systems of Future Automated Heavy Machinery. / Karhu, Otso.
Research output: Monograph › Doctoral Thesis

Kalman filter with a linear state model for PDR+WLAN positioning and its application to assisting a particle filter. / Raitoharju, Matti; Nurminen, Henri; Piché, Robert.
Research output: Scientific - peer-review › Article

Towards a simulation-based product process: SIMPRO research project final report. / Alanen, Jarmo; Keränen, Janne; Kortelainen, Juha; Muhammad, Ali; Virtanen, Juha; Multanen, Petteri; Hietala, Jukka-Pekka; Krogerus, Tomi; Hyvönen, Mika; Huhtala, Kalevi; Paajanen, Sami; Coastanea, Eric; Baharudin, Ezral; Matikainen, Marko; Mikkola, Aki; Gao, Xiao-Zhi; Järvensöö, Seppö; Mokammel, Faisal; Yi-Li-Ojala, Pasi; Zenger, Kai; Miettinen, Kaisa; Indrathya, Karthik.
Research output: Professional › Commissioned report

Robust Inference for State-Space Models with Skewed Measurement Noise. / Nurminen, Henri; Ardeshiri, Tohid; Piché, Robert; Gustafsson, Fredrik.
Research output: Scientific - peer-review › Article

Clean Components of Fluid Power System Reduce Maintenance Costs. / Rinkinen, Jari; Elo, Lauri.
Research output: Scientific › Conference contribution

Influence of application method and sintering temperature on porosity and thermal conductivity of two commercial silicon carbide based castables. / Silvonen, Jussi; Ruusila, Liivi; Levänen, Erkki; Uusitalo, Mikko.
Research output: Scientific › Conference contribution

Automated Microrobotic Manipulation of Paper Fiber Bonds. / Hirvonen, Juha; Essen von, Mathias; Kallio, Pasi.
Research output: Scientific - peer-review › Conference contribution

Decomposition analysis of Cuban energy production and use: Analysis of energy transformation for sustainability. / Vázquez, Luis; Luukkanen, Jyrki; Kaisti, Hannu; Käkönen, Mira; Majanne, Yrjö.
Energy Efficiency Considerations for LED-Based Lighting of Multipurpose Outdoor Environments. / Farahat, Ahmed; Florea, Anna; Martinez Lastra, Jose Luis; Branas, Christian; Azcondo Sanchez, Francisco Javier.
Research output: Scientific - peer-review » Article

An approach for knowledge-driven product, process and resource mappings for assembly automation. / Ferrer, Borja Ramis; Ahmad, Bilal; Lobov, Andrei; Vera, Daniel Alexandre; Martinez Lastra, Jose Luis ; Harrison, Robert.
Research output: Scientific - peer-review » Conference contribution

Automatic image-based detection and inspection of paper fibres for grasping. / Hirvonen, Juha; Kallio, Pasi.
In: IET Computer Vision, Vol. 9, No. 4, 01.08.2015, p. 588-594.
Research output: Scientific - peer-review » Article

Stability-Guaranteed Force-Sensorless Contact Force/Motion Control of Heavy-Duty Hydraulic Manipulators. / Koivumäki, Janne; Mattila, Jouko.
In: IEEE Transactions on Robotics, Vol. 31, No. 4, 01.08.2015, p. 918-935.
Research output: Scientific - peer-review » Article

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

Microrobotic platform with integrated force sensing microgippers for characterization of fibrous materials: Case study on individual paper fibers. / Saketi, Pooya.
Research output: Monograph » Doctoral Thesis

Divertor remote handling for DEMO : Concept design and preliminary FMECA studies. / Carfora, D.; Di Gironimo, G.; Järvenpää, J.; Huhtala, K.; Määttä, T.; Siuko, M.
Research output: Scientific - peer-review » Article

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

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

Knowledge-driven finite-state machines. Study case in monitoring industrial equipment. / Gonzalez Moctezuma, Luis. E.; Ferrer, Borja Ramis; Xu, Xiangbin; Lobov, Andrei; Martinez Lastra, Jose L.
Research output: Scientific - peer-review » Conference contribution

Multiple ontology workspace management and performance assessment. / Xu, Xiangbin; Gonzales Montezuma, Luis ; Lobov, Andrei ; Martinez Lastra, Jose L.
Research output: Scientific - peer-review » Conference contribution
Representation of manufacturing equipment and services for OKD-MES: From service descriptions to ontology. / Iarovyi, Sergii; Ramis, Borja; Xu, Xiangbin; Sampath, Anisa; Lobov, Andrei; Martinez Lastra, Jose L.
Research output: Scientific - peer-review › Conference contribution

Towards processing and reasoning streams of events in knowledge-driven manufacturing execution systems. / Ferrer, Borja Ramis; Iarovyi, Sergii; Lobov, Andrei; Martinez Lastra, Jose L.
Research output: Scientific - peer-review › Conference contribution

Vision-based path coordination for multiple mobile robots with four steering wheels using an overhead camera. / Ziaeí, Z.; Oftadeh, R.; Mattila, J.
Research output: Scientific - peer-review › Conference contribution

Service-oriented approach to fault tolerance in CPSs. / Alho, Pekka; Mattila, Jouni.
Research output: Scientific - peer-review › Article

A time-optimal bounded velocity path-following controller for generic Wheeled Mobile Robots. / Oftadeh, Reza; Ghabcheloo, Reza; Mattila, Jouni.
Research output: Scientific - peer-review › Conference contribution

Electroplated nickel microspring and low-friction precision linear slider: A novel micro-force sensing tool. / Saketi, Pooya; Wangyang, Peihua; Li, Haihua; Wang, Qingkang; Kallio, Pasi.
Research output: Scientific - peer-review › Conference contribution

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

Optimal sensing via multi-armed bandit relaxations in mixed observability domains. / Lauri, Mikko; Ritala, Risto.
Research output: Scientific - peer-review › Conference contribution

Passive resonance sensor based method for monitoring particle suspensions. / Salpavaara, Timo; Järveläinen, Matti; Seppälä, Sari; Yli-Halla, Teemu; Verho, Jarmo; Vilkko, Matti; Leikkala, Jukka; Levänen, Erkki.
Research output: Scientific - peer-review › Article

Tampere University of Technology, 2015. 115 p. (Tampere University of Technology. Publication; Vol. 1303).
Research output: Collection of articles › Doctoral Thesis

Active Object Recognition via Monte Carlo Tree Search. / Lauri, Mikko; Atanasov, Nikolay; Pappas, George; Ritala, Risto.
Research output: Professional › Conference contribution
Energy Efficient Digital Hydraulic Valve Control. / Huova, Mikko.
Research output: Monograph › Doctoral Thesis

Microrobotic system for multi-rate measurement of bio-based fibres Z-directional bond strength. / Latifi, Seyed Kourosh; Saketi, Pooya; Kallio, Pasi.
Research output: Scientific - peer-review › Article

Digital Hydraulics on Rails – Pilot Project of Improving Reliability on Railway Rolling Stock by Utilizing Digital Valve System. / Fischer, Helmut; Laamanen, Arto; Iso-Heiko, Anssi; Schäfer, Oliver; Karvonen, Matti; Karhu, Otso; Huhtala, Kalevi; Pulikkinen, Veli-Pekka; Huttunen, Ali.
Research output: Scientific › Conference contribution

Fault Tolerance of Digital Hydraulics in High Dynamic Hydraulic System. / Silvonen, Lauri; Linjama, Matti; Huova, Mikko; Försterling, Heino; Stamm, Edgar; Deubel, Till.
Research output: Scientific - peer-review › Conference contribution

Hydraulic Hybrid Actuator: Theoretical Aspects and Solution Alternatives. / Linjama, Matti; Huova, Mikko; Pietola, Matti; Juhala, Jyri; Huhtala, Kalevi.
Research output: Scientific › Conference contribution

Vehicle Mass Estimation for Hydraulic Drive System using Longitudinal Motion Model. / Ahopelto, Miika; Krogerus, Tomi; Huhtala, Kalevi.
Research output: Scientific - peer-review › Conference contribution

On improvement of transient stage of composite nonlinear feedback control using arbitrary order set point filters. / Pyrhönen, Veli-Pekka; Koivisto, Hannu.
Research output: Scientific - peer-review › Conference contribution

In: International Journal on Interactive Design and Manufacturing, Vol. 9, No. 4, 22.03.2015, p. 325-338.
Research output: Scientific - peer-review › Article

Composite Nonlinear Feedback Control of a Chemical Reactor. / Pyrhönen, Veli-Pekka; Koivisto, Hannu.
Research output: Scientific - peer-review › Conference contribution

Systematic approach to secure automation – coordinated voltage control use-case. / Salmenperä, Mikko; Seppälä, Jari; Koivisto, Hannu; Lu, Shengye; Repo, Sami.
Research output: Scientific - peer-review › Conference contribution
High performance nonlinear motion/force controller design for redundant hydraulic construction crane automation. / Koivumäki, Janne; Mattila, Jouni.
In: Automation in Construction, Vol. 51, 01.03.2015, p. 59-77.
Research output: Scientific - peer-review › Article

Modeling and Experimental Characterization of Pressure Drop in Gravity-Driven Microfluidic Systems. / Mäki, Antti-Juhana; Hemmilä, Samu; Hirvonen, Juha; Narra Girish, Nathaniel; Kreutzer, Joose; Hyttinen, Jari; Kallio, Pasi.
Research output: Scientific - peer-review › Article

PVDF Microforce Sensor for the Measurement of Z-directional Strength in Paper Fiber Bonds. / Saketi, Pooya; Latifi, Seyed Kouros; Hirvonen, Juha; Rajala, Satu; Vehkaoja, Antti; Salpavaara, Timo; Lekkala, Jukka; Kallio, Pasi.
Research output: Scientific - peer-review › Article

Characteristics of Digital Hydraulics with Commercial Controllers. / Huova, Mikko; Ahopelto, Miika; Ketonen, Miikka; Ahola, Ville; Linjama, Matti; Huhtala, Kalevi.
Research output: Scientific › Conference contribution

Numerically Efficient Flow Model for On/Off Valves. / Linjama, Matti; Siivonen, Lauri; Huova, Mikko.
Research output: Scientific › Conference contribution

Problems Analysis and Solutions for the Establishment of Augmented Reality Technology in Maintenance and Education. / Martínez Landa, Héctor.
Tampere University of Technology, 2015. 67 p. (Tampere University of Technology. Publication; Vol. 1275).
Research output: Collection of articles › Doctoral Thesis

Fault tolerant control architecture design for mobile manipulation in scientific facilities. / M. Aref, Mohammad; Oftadeh, Reza; Ghabcheloo, Reza; Mattila, Jouni.
Research output: Scientific - peer-review › Article

A comparison of five optical surface topography measurement methods. / Mettänen, Marja; Hirn, Ulrich.
Research output: Scientific - peer-review › Article

Adaptive autoregressive model for reduction of noise in SPECT. / Takalo, Reijo; Hytti, Heli; Ihalainen, Heimo; Sohlberg, Antti.
Research output: Scientific - peer-review › Article

A dynamic paper machine simulator for testing of model predictive control applications. / Yli-Fossi, Timo; Kuusisto, Risto.
Research output: Scientific - peer-review › Conference contribution

A Mapping Method Tolerant to Calibration and Localization Errors Based on Tilting 2D Laser Scanner. / Kolu, Antti; Lauri, Mikko; Hyvönen, Mikko; Ghabcheloo, Reza; Huhtala, Kalevi.
Research output: Scientific - peer-review › Conference contribution
A model based analysis of the measurement errors in inductively coupled passive resonance sensors. / Salpavaara, Timo ; Lekkala, Jukka.
IMEKO XXI World Congress, Proceedings, August 30 - September 4, 2015, Prague, Czech Republic. ed. / Jan Holub. 2015.
Research output: Scientific - peer-review › Conference contribution

Anomaly Detection and Diagnostics of a Wheel Loader Using Dynamic Mathematical Model and Joint Probability Distributions. / Krogerus, Tomi; Hyvönen, Mika; Backas, Joni; Huhtala, Kalevi.
Research output: Scientific - peer-review › Conference contribution

Architecture for Open, Knowledge-Driven Manufacturing Execution System. / Iarovyi, Sergii; Xu, Xiangbin; Lobov, Andrei; Lastra, Jose L. Martinez; Strzelczak, Stanislaw.
Research output: Scientific - peer-review › Conference contribution

Assistive Situation Awareness System for Mobile Multimachine Work Environments. / Hyvönen, Mika ; Rajala, Miika ; Virtanen, Ari; Jankkari, Jari; Huhtala, Kalevi; Ritala, Risto.
Research output: Scientific - peer-review › Article

Bayesian statistical analysis for performance evaluation in real-time control systems. / Boström, Pontus; Heikkilä, Mikko; Huova, Mikko; Waldén, Marina; Linjama, Matti.
Research output: Scientific - peer-review › Conference contribution

Cooperative Sensing and Path Planning In a Multi-Vehicle Environment. / Melin, J.; Lauri, M.; Kolu, A.; Koljonen, J.; Ritala, R.
Research output: Scientific - peer-review › Conference contribution

Definition of key performance indicators for energy efficient assessment in the transport sector. / Mantilla, R. M Fernanda; Nieto Lee, Angelica; Lastra, Jose L Martinez.
Research output: Scientific - peer-review › Conference contribution

Design Patterns for Model-Driven Development. / Vepsäläinen, Timo; Kuikka, Seppo.
Research output: Scientific - peer-review › Article

Developing Open Knowledge-Driven Manufacturing Execution System. / Iarovyi, Sergii; Xu, Xiangbin.
Research output: Scientific - peer-review › Chapter

Empowering Industrial Maintenance Personnel with Situationally Relevant Information using Semantics and Context Reasoning. / Hästbacka, David; Aarnio, Pekka; Vyatkin, Valeriy; Kuikka, Seppo.
Research output: Scientific - peer-review › Conference contribution
Gain Scheduling Full State Feedback with D-Implementation for Velocity Tracking of Hydrostatic Drive Transmission. / Backas, Joni; Ghabcheloo, Reza; Huhtala, Kalevi .
Research output: Scientific - peer-review › Conference contribution

Industrial Tools for micromanipulation. / Gauthier, Michael; Clevy, Cedric; Kallio, Pasi; Heriban, David.
Research output: Scientific › Chapter

In situ hybridization of pulp fibres using Mg-Al layered double hydroxides. / Lange, Carl; Lastusaari, Mika; Reza, Mehedi; Latifi, Seyed Kourosh; Kallio, Pasi; Fardim, Pedro.
Research output: Scientific - peer-review › Article

Keskipakopumppujen mitoituksen ja käytön haasteet. / Lehtonen, Eetu; Rinkinen, Jari.
Research output: Professional › Article

Low-cost 3D lidar for the mapping of autonomous mobile work machine. / Kolu, Antti ; Rajapolvi, Kimmo; Hyvönen, Mika ; Multanen, Petteri; Huhtala, Kalevi .
Research output: Scientific - peer-review › Conference contribution

Methodology for energy efficiency assessment in the transport sector for smart cities. / Mantilla R., M. Fernanda; Nieto Lee, Angelica; Lastra, Jose L. Martinez; Kotakorpi, Elli.
Research output: Scientific - peer-review › Conference contribution

Motion Model for Positioning with Graph-Based Indoor Map. / Nurminen, Henri; Koivisto, Mike; Ali-Löytty, Simo; Piche, Robert.
Research output: Scientific - peer-review › Conference contribution

Optimal operation of a three camera system on a four-wheel robot. / Raunio, Jukka-Pekka; Ritala, Risto; Välimäki, Tuomas.
Research output: Scientific - peer-review › Conference contribution

Parameters affecting the energy performance of the transport sector in smart cities. / Mantilla R., M. Fernanda; Nieto Lee, Angelica; Lastra, Jose L Martinez.
Research output: Scientific - peer-review › Conference contribution

Photometric stereo system for detailed analysis of material surfaces. / Mettänen, Marja ; Melin, Joonas ; Ihlainen, Heimo.
IMEKO XXI World Congress, Measurement in Research and Industry, Proceedings, August 30 - September 4, 2015, Prague, Czech Republic. 2015.
Research output: Scientific - peer-review › Conference contribution
Piezoelectric sensitivity measurements of cellulose nanofibril sensors. / Rajala, Satu; Vuoriluoto, Maija; Rojas, Orlando; Franssila, Sami; Tuukkanen, Sampo.
IMEKO XXI World Congress, Proceedings, August 30 - September 4, 2015, Prague, Czech Republic. ed. / Jan Holub. 2015.
Research output: Scientific - peer-review › Conference contribution

Risk-aversive optimal planning of sensing. / Lauri, Mikko; Ropponen, Aino; Ritala, Risto.
Research output: Scientific - peer-review › Article

Security Analysis of Various Industrial Devices. / Seppälä, Jari; Takanen, Ari; Korju, Juha; Häyrynen, Antti.
Research output: Professional › Conference contribution

Semantic-Driven CEP for Delivery of Information Streams in Data-Intensive Monitoring Systems. / Evchina, Yulia; Martinez Lastra, Jose Luis.
Research output: Scientific - peer-review › Conference contribution

Service Architecture and Interface Design for Mobile Machine Parameter Optimization System. / Kannisto, Petri; Hästbacka, David; Vilkkol, Matti; Kuikka, Seppo.
Research output: Scientific - peer-review › Article

Simulointi nopeuttaa käyttöönnä määrittelyä. / Ojala, Petteri; Saarenrinne, Pentti; Miettinen, Juha; Multanen, Petteri; Kiilunen, Janne; Hietala, Jukka-Pekka; Kolu, Antti; Pippola, Juha; Mostofizadeh, Milad; Ylönen, Markku.
Research output: Professional › Article

Teollista Internetiä työskentelyssä – palveluarkkitehtuuri suorituskyvyn optimointiin. / Kannisto, Petri; Hästbacka, David; Kuikka, Seppo.
Research output: Scientific - peer-review › Conference contribution

The Fourteenth Scandinavian International Conference on Fluid Power, SICFP15 : Proceedings. / Laamanen, Arto (Editor); Huhtala, Kalevi (Editor).
Tampere University of Technology. Department of Intelligent Hydraulics and Automation, 2015. 835 p. (Scandinavian International Conference on Fluid Power (SICFP)).
Research output: Scientific - peer-review › Anthology

Time-Critical Cooperative Path Following of Multiple UAVs: Case Studies. / Kaminer, Isaac; Xargay, Enric; Cichella, Venanzio; Hovakimyan, N.; Pascoal, Antionio Manuel; Aguia, A. Pedro; Dobrokhodov, Vladimir; Ghacheloo, Reza.
Research output: Scientific - peer-review › Chapter

Towards dependable automation. / Seppälä, Jari; Salmenperä, Mikko.
Research output: Scientific - peer-review › Chapter

Vision-based trajectories planning for four wheels independently steered mobile robots with maximum allowable velocities. / Ziae, Zahra; Oftadeh, Reza; Mattila, Jouni.
Augmented reality aiding collimator exchange at the LHC. / Martinez, Hector; Fabry, Thomas; Laukkanen, Seppo; Mattila, Jouni; Tabourrot, Laurent.
Research output: Scientific - peer-review › Article

Automatteen öljyn epäpuhtauksien mittaus ja keskeiset standardit. / Multanen, Petteri; Niiranen, Esko; Elo, Lauri; Rinkinen, Jari.
Research output: Professional › Conference contribution

Automated drop-on-fiber contact angle measurement using a microrobotic platform. / Saketi, Pooya; Hirvonen, Juha; Lai, Yuli; Ganser, Christian; Teichert, Christian; Järnström, Joakim; Fardim, Pedro; Kallio, Pasi.
Research output: Scientific - peer-review › Article

Research output: Scientific - peer-review › Conference contribution

Comparison of proportional control and displacement control using digital hydraulic power management system. / Heikkilä, Mikko; Karvonen, Matti; Linjama, Matti; Tikkanen, Seppo; Huhtala, Kalevi.
Research output: Scientific - peer-review › Conference contribution

Constrained Path Optimization with Bézier Curve Primitives. / Choi, Ji-Wung; Huhtala, Kalevi.
Research output: Scientific - peer-review › Conference contribution

Deriving Efficient and Dependable Parallel Programs from Simulink Models. / Ostroumov, Sergey; Boström, Pontus; Waldén, Marina; Huova, Mikko.
Research output: Professional › Commissioned report

Research output: Scientific - peer-review › Conference contribution

Design Pattern Support for Model-Driven Development. / Vepsäläinen, Timo; Kuikka, Seppo.
Research output: Scientific - peer-review › Conference contribution

Device Status Information Service Architecture for Condition Monitoring Using OPC UA. / Hästbacka, David; Barna, Laurentiu; Karaila, Mika; Liang, Yiqing; Tuominen, Pasi; Kuikka, Seppo.
Research output: Scientific - peer-review › Conference contribution
Digital Hydraulic Power Management System with Five Independent Outlets - Simulation Study of Displacement Controlled Excavator Crane. / Heikkilä, Mikko; Linjama, Matti; Huhtala, Kalevi.
Research output: Scientific - peer-review › Conference contribution

Electro hydraulic gas exchange valve actuation of 4-stroke large bore diesel engine. / Herranen, Mika; Huhtala, Kalevi.
Research output: Scientific - peer-review › Conference contribution

Equal coded digital hydraulic valve system - improving tracking control with pulse frequency modulation. / Paloniitty, Miika; Linjama, Matti; Huhtala, Kalevi.
The Second International Conference on Dynamics and Vibroacoustics of Machines, September 15-17, 2014, Samara, Russia. 2014. p. 618-626.
Research output: Scientific - peer-review › Conference contribution

Experimental Evaluation of Z-Directional Fibre-Fibre Bond Strength using Microrobotics. / Latifi, Seyed Kourosh; Saketi, Pooya; Kallio, Pasi.
Research output: Scientific - peer-review › Conference contribution

Extracting Mobile Machine Routes from GPS Traces. / Laurikkala, Mikko; Vilkko, Matti.
Research output: Scientific - peer-review › Conference contribution

Geometry-Aided Inversion of Manipulator Telescopic Link Length from MEMS Accelerometer and Rate Gyro Readings. / Vihonen, Juho; Honkakorpi, Janne; Mattila, Joui; Visa, Ari.
Research output: Scientific - peer-review › Conference contribution

Geometry-Aided Low-Noise Angular Velocity Sensing of Rigid-Body Manipulator Using MEMS Rate Gyros and Linear Accelerometers. / Vihonen, Juho; Honkakorpi, Janne; Koivumäki, Janne; Mattila, Joui; Visa, Ari.
Research output: Scientific - peer-review › Conference contribution

Global Path Planning with Obstacle Avoidance for Omnidirectional Mobile Robot Using Overhead Camera. / Ziaei, Zahra; Oftadeh, Reza; Mattila, Joui.
Research output: Scientific - peer-review › Conference contribution

Hydraulic Manipulator Virtual Decomposition Control with Performance Analysis Using Low-Cost MEMS Sensors. / Koivumäki, Janne; Honkakorpi, Janne; Vihonen, Juho; Mattila, Joui.
Research output: Scientific - peer-review › Conference contribution

Hydraulijärjestelmiän suunnitteluperusteet. / Huhtala, Kalevi; Rinkinen, Jari.
Koneeosien suunnittelu. ed. / Timo Björk; Pekka Hautala; Kalevi Huhtala; Seppo Kivioja; Matti Kleimola; Markku Lavi; Heikki Martikka; Juha Miettinen; Aarno Ranta; Jari Rinkinen; Pekka Salonen. Helsinki : Sanoma Pro Oy, 2014. p. 436-463.
Research output: Scientific › Chapter
Robotic software frameworks and software component models in the development of automated handling of individual natural fibers. / Von Essen, Mathias; Hirvonen, Juha; Kuikka, Seppo; Kallio, Pasi.
Research output: Scientific - peer-review › Article

Secure integration of the Home Energy Management System to the battery management system in the customer domain of the smart grid. / Jafary, Peyman; Repo, Sami; Koivisto, Hannu.
Research output: Scientific - peer-review › Conference contribution

Semi-automatic Measurement of Microfibril Angle on a Microrobotic Platform. / Hirvonen, Juha; Latifi, Seyed Kourosh; Palouvori, Karri; Kallio, Pasi.
Research output: Scientific - peer-review › Conference contribution

Simulation-based design process for the verification of ITER remote handling systems. / Sibois, Romain; Määttä, Timo; Siuko, Mikko; Mattila, Jouni.
In: Fusion engineering and design, 2014, p. 2341-2346.
Research output: Scientific - peer-review › Article

Software fault detection and recovery in critical real-time systems: An approach based on loose coupling. / Alho, Pekka; Mattila, Jouni.
Research output: Scientific - peer-review › Article

Stereo vision with consumer grade high resolution cameras for a micro air vehicle. / Melin, Joonas; Lauri, Mikko; Ritala, Risto.
Research output: Scientific - peer-review › Conference contribution

Stochastic control for maximizing mutual information in active sensing. / Lauri, Mikko; Ritala, Risto.
Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Conference contribution

Systeemien teoriat, mallit, menetelmät ja sovellukset. / Halme, Aarne; Lautala, Pentti; Ollus, Martin; Wahlström, Björn; Ylen, Raimo.
Research output: Scientific - peer-review › Conference contribution

Systeemiteoria yksinkertaisesti. / Lautala, Pentti; Ollus, Martin; Wahlström, Björn.
Research output: Scientific - peer-review › Conference contribution

The Effect of Refining on Z-directional Strength of Bleached Softwood Kraft Pulp Fibre Bonds using Microrobotics. / Latifi, Seyed Kourosh; Saketi, Pooya; Bozic, Martina; Kallio, Pasi.
Using a data-centric event-driven architecture approach in the integration of real-time systems at DTP2. / Tuominen, Janne; Viinikainen, Mikko; Alho, Pekka; Mattila, Jouni.
Research output: Scientific - peer-review  Article

Using Digital Mock-Ups Within Simulation Lifecycle Environment for the Verification of ITER Remote Handling Systems Design. / Sibois, Romain; Määttä, Timo; Siuko, Mikko; Mattila, Jouni.
Research output: Scientific - peer-review  Article

Verification and Validation of a Pressure Control Unit for Hydraulic Systems. / Boström, Pontus; Heikkilä, Mikko; Huova, Mikko; Waldén, Marina; Linjama, Matti.
Research output: Scientific - peer-review  Conference contribution

A linear state model for PDR+WLAN positioning. / Raitoharju, Matti; Nurminen, Henri; Piche, Robert.
Research output: Scientific - peer-review  Conference contribution

Analysing security issues for a smart grid demonstration environment. / Paananen, Kim; Seppälä, Jari; Koivisto, Hannu; Repo, Sami.
Research output: Scientific - peer-review  Conference contribution

Analysis of Textural Features for Face Biometric Anti-Spoofing. / Waris, Muhammad-Adeel; Zhang, Honglei; Ahmad, Iftikhar; Kiranyaz, Serkan; Gabbouj, Moncef.
Research output: Scientific - peer-review  Conference contribution

An Energy-Efficient High Performance Motion Control of a Hydraulic Crane Applying Virtual Decomposition Control. / Koivumäki, Janne; Mattila, Jouni.
Research output: Scientific - peer-review  Conference contribution

A New Hybrid Approach for Augmented Reality Maintenance in Scientific Facilities. / Martinez, Hector; Laukkanen, Seppo; Mattila, Jouni.
Research output: Scientific - peer-review  Article

An extended second order polynomial model for hydraulic fluid density. / Karjalainen, J.P.; Karjalainen, R.; Huhtala, K.
Research output: Scientific - peer-review  Conference contribution

A Novel Time Optimal Path Following Controller with Bounded Velocities for Mobile Robots with Independently Steerable Wheels. / Ofatdeh, Reza; Ghabcheloo, Reza; Mattila, Jouni.
**Computer-Assisted Bilateral Teleoperation System for Water Hydraulic Manipulator.** / Viinikainen, Mikko; Mattila, Jouni; Tuominen, Janne.


Research output: Scientific › peer-review › Conference contribution

**Control arrangement of an electro-hydraulic gas exchange valve actuation system.** / Herranen, Mika (Inventor); Huhtala, Kalevi (Inventor); Virvalo, Tapio (Inventor).


Research output: Scientific › Patent

**Correlation approach for the detection of the heartbeat intervals using force sensors placed under the bed posts.** / Vehkaoja, Antti; Rajala, Satu; Kumpulainen, Pekka; Lekkala, Jukka.

In: Journal of Medical Engineering & Technology, Vol. 37, No. 5, 2013, p. 327-333.

Research output: Scientific › peer-review › Article

**Design and analysis of secure integration solution for Smart grids.** / Salmenperä, Mikko; Erola, Risto; Seppälä, Jari; Kivistö, Hannu.


Research output: Scientific › peer-review › Conference contribution

**Detection and isolation of faults in mobile hydraulic valves based on a reduced-order model and adaptive thresholds.** / Nurmi, Jarmo; Mattila, Jouni.


Research output: Scientific › peer-review › Conference contribution

**Digitaalihydrauliikan seminaarin satoa Tampereella.** / Linjama, Matti.


Research output: Professional › Article

**Displacement control of a mobile crane using a digital hydraulic power management system.** / Heikkilä, Mikko; Linjama, Matti.


Research output: Scientific › peer-review › Article

**Divertor cassette locking system remote handling trials with WHMAN at DTP2.** / Lyttikäinen, Ville; Kinnunen, Pasi; Koivumäki, Janne; Mattila, Jouni; Siuko, Mikko; Esque, Salvador; Palmer, Jim.


Research output: Scientific › peer-review › Article

**Dynaamisten voimalaitosmallien parametrien määrittäminen ja virittäminen.** / Yli-Fossi, Timo.


Research output: Scientific › peer-review › Conference contribution

**Dynamic modeling and simulation of cone crushing circuits.** / Itävuo, Pekka; Vilkko, Matti; Jaatinen, Antti; Viito, Keijo.


Research output: Scientific › peer-review › Article

**Early design verification of ITER remote handling systems using Digital Mock-Ups within simulation lifecycle environment.** / Sibois, R.; Määttä, T.; Siuko, M.; Mattila, J.

Energy Efficiency of Digital Hydraulic Valve Control Systems. / Huova, Mikko; Linjama, Matti; Huhtala, Kalevi.
(SAE Technical Papers).

Enhancement of the use of digital mock-ups in the verification and validation process for ITER remote handling systems. / Sibois, R.; Salminen, K.; Siuko, M.; Mattila, J.; Määttä, T.

Euratom and EFDA Fusion Training Scheme, EFDA goal oriented training in remote handling -GOTRH. / Mattila, J.; Alho, P.; Väyrynen, J.; Sibois, R.; Salminen, K.; Määttä, T.
VTT, 2013. 3 p. (VTT Science; Vol. 30).

Experiences of Online Measurements in Technical Cleanliness of Fluid Power System. / Elo, Lauri; Pekkonen, Juuso; Rinkinen, Jari.

Extracting the respiration cycle lengths from ECG signal recorded with bed sheet electrodes. / Vehkaoja, A.; Peltokangas, M.; Lekkala, J.

Fault-tolerant scheduling of stateful tasks in uniprocessor real-time systems. / Alexeev, P.; Boström, P.; Walden, M.; Huova, M.; Linjama, M.; Sere, K.

Fusion for Energy and ITER Activities, Divertor RH design updates and DTP2 Phase 2 testing. / Siuko, M.; Järvenpää, J.; Mattila, J.
VTT, 2013. 5 p. (VTT Science; Vol. 30).

Generic Microcontroller Board for Automated Heavy Machinery with Modular Control System. / Karhu, Otso; Hauhtala, Kalevi.

Geometry-Aided Angular Acceleration Sensing of Rigid Multi-Body Manipulator Using MEMS Rate Gyros and Linear Accelerometers. / Vihonen, Juho; Honkakorpi, Janne; Mattila, Jouni; Visa, Ari.

Geometry-Aided MEMS Motion State Estimation for Multi-Body Manipulators. / Vihonen, Juho; Honkakorpi, Janne; Mattila, Jouni; Visa, Ari.
Huokisen keraamin karakterisointi sähköisellä herätteellä. / Järveläinen, Matti; Salpavaara, Timo; Seppälä, Sari; Roinila, Torri; Vilkko, Matti; Levänen, Erkki.
Research output: Scientific - peer-review › Conference contribution

Hydraulic Energy Recovery in Displacement Controlled Digital Hydraulic System. / Heikkilä, M.; Linjama, M.
Research output: Scientific - peer-review › Conference contribution

Improved energy efficiency and controllability of mobile work machines by reduced engine rotational speed. / Ahopelto, Miika; Backas, Joni; Ghabcheloo, Reza; Huhtala, Kalevi.
Research output: Scientific - peer-review › Conference contribution

Improving Asset Management: Plant Models Supported by Composite Services. / Kannisto, Petri; Hästbacka, David; Kuikka, Seppo.
Research output: Scientific - peer-review › Conference contribution

Indirect Particle Size Distribution Control in Cone Crushers. / Itävuo, Pekka; Vilkko, Matti; Jaatinen, Antti.
Research output: Scientific - peer-review › Conference contribution

Integration of Microfluidic System with Silicon Nanowires Biosensor for Multiplexed Detection. / Gao, Anran; Dai, Pengfei; Lu, Na; Li, Tie; Wang, Yuelin; Hemmilä, Samu; Kallio, Pasi.
Research output: Scientific - peer-review › Conference contribution

Internal leakage fault detection for variable displacement axial piston pump. / Kivelä, Tuomo; Mattila, Jouni.
Research output: Scientific - peer-review › Conference contribution

Interoperability of remote handling control system software modules at Divertor Test Platform 2 using middleware. / Tuominen, Janne; Rasi, Teemu; Mattila, Jouni; Siuko, Mikko; Esque, Salvador; Hamilton, David.
Research output: Scientific - peer-review › Article

Research output: Scientific - peer-review › Article
Kohti automaattista yksittäisten paperikuitujen manipulointia. / Hirvonen, Juha; Kallio, Pasi.
Research output: Scientific - peer-review › Conference contribution

Koulutuksen ytimessä. / Hietanen, Tero; Rask, Outi; Zenger, Kai; Strömman, Mika.
Research output: Professional › Article

Making sense of information security in real time automation - information flow approach. / Seppälä, Jari; Salmenperä, Mikko; Koivisto, Hannu.
Research output: Scientific - peer-review › Conference contribution

Mallipohjainen automaatio tulee. / Vepsäläinen, Timo; Kuikka, Seppo.
Research output: Professional › Article

Mass-Flow Estimation in Mineral-processing Applications. / Väyrynen, Teemu; Itävuo, Pekka; Vilkko, Matti; Jaatinen, Antti; Peltonen, Mika.
Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Conference contribution

MEMS-based State Feedback Control of Multi-Body Hydraulic Manipulator. / Honkakorpi, Janne; Vihonen, Juho; Mattila, Jouni.
Research output: Scientific - peer-review › Conference contribution

Mem sensor network based anti-sway control system for articulated hydraulic crane. / Honkakorpi, Janne; Vihonen, Juho; Mattila, Jouni.
Research output: Scientific - peer-review › Conference contribution

Method for detecting free fiber ends in tissue paper. / Raunio, Jukka-Pekka; Ritala, Risto.
Research output: Scientific - peer-review › Article

Method for Investigations of Aged Fibre-Fibre Bonds with Micro and Nanorobotic Tools. / Saketi, Pooya; Mikczinski, Manuel; Fatikow, Sergej; Kallio, Pasi.
Research output: Scientific - peer-review › Conference contribution


New energy efficient solutions to mobile machines. / Huhtala, Kalevi; Ahopelto, Miika; Heikkilä, Mikko; Backas, Joni; Tammisto, Jyrki; Huova, Mikko; Linjama, Matti. The 8th International Conference on Fluid Power Transmission and Control, ICFP 2013, April 9-11, 2013, Zhejiang University, Hangzhou, China. ed. / Lu Yongxiang; Wang Qingfeng; Ju Bingfeng; Zou Jun. 2013. p. 38-52. Research output: Scientific - peer-review › Conference contribution


Path Planning in Dynamic Environments with the Partially Observable Canadian Traveller's Problem. / Lauri, Mikko; Ritala, Risto. Proceedings of the 1st Workshop on Planning and Robotics, PlanRob 2013, Rome, Italy, June 10, 2013. ed. / Alberto Finzi; Felix Ingrand; Andrea Orlandini. 2013. p. 89-95 (Workshop on Planning and Robotics). Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Conference contribution

Recognition of Operating States of a Wheel Loader for Diagnostics Purposes. / Krogerus, Tomi; Hyvönen, Mika; Huhtala, Kalevi.
Research output: Scientific - peer-review › Article

Reliability of operating window identified from process data. / Ihalainen, Heimo; Ritala, Risto; Saarela, Olli.
Research output: Scientific - peer-review › Article

Reliability requirements management for ITER Remote Handling maintenance systems. / Väyrynen, Jukka; Mattila, Jouni.
Research output: Scientific - peer-review › Article

Remote Handling Control System for Water Hydraulic Mover. / Tuominen, Janne; Mattila, Jouni.
Research output: Scientific - peer-review › Conference contribution

Scale and Rotation Invariant Two View Microgripper Detection that Uses a Planar Pattern. / Hirvonen, Juha; Kallio, Pasi.
Research output: Scientific - peer-review › Conference contribution

Semantics enhanced engineering and model reasoning for control application development. / Hästbacka, David; Kuikka, Seppo.
Research output: Scientific - peer-review › Article

Simulation-Based Development of Safety Related Interlocks. / Vepsäläinen, Timo; Kuikka, Seppo.
Research output: Scientific - peer-review › Chapter

Stable and high performance energy-efficient motion control of electric load sensing controlled hydraulic manipulators. / Koivumäki, Janne; Mattila, Jouni.
Research output: Scientific - peer-review › Conference contribution

Super-FRS target area remote handling: Scenario and development. / Orona, Luis Miguel; Weick, Helmut; Mattila, Jouni; Amjad, Faraz; Kozlova, Ekaterina; Karagiannis, Christos; Behr, Karl-Heinz; Winkler, Martin.
Research output: Scientific - peer-review › Article

Survey and Introduction to the Focused Section on Mechatronics for Sustainable and Resilient Civil Infrastructure. / Yunhua, Li; Yang, Wang; Chase, J.G.; Mattila, J.; Hyun, Myung; Sawodny, O.
Research output: Scientific - peer-review › Review Article
Survey on Remote Handling Logistics for Super-FRS Regular Paper. / Amjad, Faraz; Weick, Helmut; Mattila, Jouni; Orona, Luis Miguel; Kozlova, Ekaterina; Winkler, Martin; Behr, Karl-Heinz; Karagiannis, Christos.
Research output: Scientific - peer-review › Article

Suunnittelumallien hyödyntäminen suunnittelutyössä ja oppimisessa. / Rauhamäki, Jari; Rask, Outi; Kuikka, Seppo.
Research output: Scientific - peer-review › Conference contribution

Teollisuusvoimalaiksten liukuva vastapaineen säätö. / Majanne, Yrjö; Maasalo, Mikael; Nyman, Jarno.
Research output: Scientific - peer-review › Conference contribution

Test bench for measuring technical cleanliness of assembled fluid power components. / Pekkonen, Juuso; Elo, Lauri; Kuosku, Mika; Rinkinen, Jari.
Research output: Scientific - peer-review › Conference contribution

Text entry by gazing and smiling. / Tuisku, Outi; Surakka, Veikko; Rantanen, Ville; Vanhala, Toni; Lekkala, Jukka.
Research output: Scientific - peer-review › Article

Research output: Scientific - peer-review › Conference contribution

The Automation of Multi Degree of Freedom Hydraulic Crane by Using Virtual Decomposition Control. / Koivumäki, Janne; Mattila, Jouni.
Research output: Scientific - peer-review › Conference contribution

Three-dimensional calibration of micromanipulators using stereo vision. / Xiong, Yi; Hirvonen, Juha; Kallio, Pasi.
Research output: Scientific - peer-review › Article

Towards Fully Automated Pick and Place Operations of Individual Natural Fibers. / Von Essen, Mathias; Hirvonen, Juha; Kuikka, Seppo; Kallio, Pasi.
Research output: Scientific - peer-review › Conference contribution

Washing Durability of Embroidered Polymer Coated RFID Tags. / Toivonen, Mikko; Koski, Karoliina; Moradi, Elham; Babar, A. Ali; Sydänheimo, Lauri; Ukkonen, Leena; Kallio, Pasi; Rahmat-Samii, Yahya.
Web-wide imaging of paper; Analyzing the potential of on-line light transmittance measurement in quality control and diagnostics of paper. / Raunio, Jukka-Pekka; Tirronen, Ville; Lehtoranta, Ilkka; Ritala, Risto.
Research output: Scientific - peer-review › Article

Research output: Scientific › Conference contribution

Divertor RH design updates and DTP2 Phase 2 testing. / Siuko, M.; Järvenpää, J.; Mattila, J.
VALTION TEKNILLINEN TUTKIMUSKESKUS, 2012. 8 p. (VTT Science; Vol. 7).
Research output: Professional › Commissioned report

EFDA goal oriented training in remote handling - GOTRH. / Mattila, J.; Alho, P.; Väyrynen, J.; Sibois, R.; Salminen, K.
VALTION TEKNILLINEN TUTKIMUSKESKUS, 2012. 3 p. (VTT Science; Vol. 7).
Research output: Professional › Commissioned report

Divertor RH design updates and DTP2 Phase 2 testing. / Siuko, M.; Järvenpää, J.; Mattila, J.
Research output: Professional › Commissioned report

EFDA quality assurance exercise. / Mattila, Jouni; Järvenpää, Jorma.
Research output: Professional › Commissioned report

The design and development of ITER divertor RH equipment @ DTP2 facility. / Mattila, J.; Poutanen, J.; Saarinen, H.; Kekäläinen, T.; Siuko, M.; Palmer, J.; Irving, M.; Timperi, A.
Research output: Scientific - peer-review › Conference contribution