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Research output: Scientific - peer-review › Conference contribution
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Research output: Scientific - peer-review › Article

Lehtonen, Eetu; Rinkinen, Jari / Keskipakopumppujen mitoituksen ja käytön haasteet.
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Research output: Scientific - peer-review › Conference contribution

Heikkilä, Mikko; Linjama, Matti; Huhtala, Kalevi / Digital Hydraulic Power Management System with Five Independent Outlets - Simulation Study of Displacement Controlled Excavator Crane.
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Research output: Scientific - peer-review › Conference contribution

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

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Research output: Scientific - peer-review › Conference contribution
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Research output: Scientific - peer-review › Conference contribution

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Research output: Scientific - peer-review › Conference contribution

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Research output: Scientific - peer-review › Conference contribution

Kreutzer, Joose; Kallio, Pasi / Integrated microfluidic culture environments for in vitro cell studies.
Research output: Scientific › Conference contribution
Tiemerding, Tobias; Von Essen, Mathias; Diederichs, Claas; Kallio, Pasi; Fatikow, Sergei / Integrating Robotic Software Frameworks for Convenient Software Component Exchange in Micro- and Nanoscale Applications.
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Research output: Scientific - peer-review › Conference contribution

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Research output: Scientific - peer-review › Article

Peltokangas, Mikko; Verho, Jarmo; Salpavaara, Timo; Vehkaoja, Antti / Non-Invasive System for Mechanical Arterial Pulse Wave Measurements.
Research output: Scientific - peer-review › Conference contribution

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Grigoray, Olga; Wondraczek, Holger; Daus, Stephen; Kühnöl, Katrin; Latifi, Seyed Kourosh; Saketi, Pooya; Fardim, Pedro; Kallio, Pasi; Heinze, Thomas / Photocontrol of Mechanical Properties of Pulp Fibers and Fiber-to-Fiber Bonds via Self-Assembled Polysaccharide Derivatives.
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Research output: Scientific - peer-review › Conference contribution

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

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

Lauri, Mikko; Ritala, Risto / **Stochastic control for maximizing mutual information in active sensing.**
Rauhämäki, Jari; Kuikka, Seppo / Strategies for Hazard Management Process. 

Halme, Aarne; Lautala, Pentti; Ollus, Martin; Wahlström, Björn; Ylinen, Raimo / Systeemien teoriait, mallit, menetelmiä ja sovellukset. 

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Latifi, Seyed Kourosh; Saketi, Pooya; Bozic, Martina; Kallio, Pasi / The Effect of Refining on Z-directional Strength of Bleached Softwood Kraft Pulp Fibre Bonds using Microrobotics. 

Tuominen, Janne; Viinikainen, Mikko; Alho, Pekka; Mattila, Jouni / Using a data-centric event-driven architecture approach in the integration of real-time systems at DTP2. 

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Boström, Pontus; Heikkilä, Mikko; Huova, Mikko; Waldén, Marina; Linjama, Matti / Verification and Validation of a Pressure Control Unit for Hydraulic Systems. 

Raitoharju, Matti; Nurminen, Henri; Piche, Robert / A linear state model for PDR+WLAN positioning. 

Paananen, Kim; Seppälä, Jari; Koivisto, Hannu; Repo, Sami / Analysing security issues for a smart grid demonstration environment. 

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

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

Research output: Scientific - peer-review › Conference contribution

Oftadeh, Reza; Ghachcheloo, Reza; Mattila, Jouni / A Novel Time Optimal Path Following Controller with Bounded Velocities for Mobile Robots with Independently Steerable Wheels.
Research output: Scientific - peer-review › Conference contribution

Nybond, Susanna; Karp, Matti; Tammela, Päivi / Antimicrobial assay optimization and validation for HTS in 384-well format using a bioluminescent E. coli K-12 strain.
Research output: Scientific - peer-review › Article

Khosravi, Mohammad A.; Taghirad, Hamid D.; Oftadeh, Reza / A positive tensions PID controller for a planar cable robot: An experimental study.
Research output: Scientific - peer-review › Conference contribution

Vepsäläinen, Timo; Kuikka, Seppo / Arkkitehtuurinäkymät turvallisuuteen liittyvien järjestelmien kehityksessä.
Research output: Scientific - peer-review › Conference contribution

Pyrhönen, Veli-Pekka; Koivistoo, Hannu / A Track Following Stage Controller for HDD Servo System Using Reduced Order Controller with Integration.
Research output: Scientific - peer-review › Conference contribution

Sorsa, Aki; Leiviskä, Kauno; Santa-aho, Suvi; Vippola, Minnamari; Lepistö, Toivo / Barkhausen kohina -mittauksen hyödyntäminen materiaalien ominaisuuksien annustamisessa.
Research output: Scientific - peer-review › Conference contribution

Vepsäläinen, Timo; Kuikka, Seppo / Benefit from Simulating Early in MDE of Industrial Control.
Research output: Scientific - peer-review › Conference contribution
Oftadeh, Reza; Aref, Mohammad M.; Ghabcheloo, Reza; Mattila, Jouni / Bounded-Velocity Motion Control of Four Wheel Steered Mobile Robots.
Research output: Scientific - peer-review › Conference contribution

Alho, Pekka; Mattila, Jouni / Breaking down the requirements: Reliability in remote handling software.
Research output: Scientific - peer-review › Article

Roinila, Tomi; Vilkko, Matti; Sun, Jian / Broadband Methods for Online Grid Impedance Measurement.
Research output: Scientific - peer-review › Conference contribution

Roinila, Tomi; Vilkko, Matti; Sun, Jian / Breaking down the requirements: Reliability in remote handling software.
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Vehkaoja, Antti; Peltokangas, Mikko; Verho, Jarmo; Lekkala, Jukka / Combining the Information of Unconstrained Electrocardiography and Ballistography in the Detection of Night-Time Heart Rate and Respiration Rate.
Research output: Scientific - peer-review › Article

Viinikainen, Mikko; Mattila, Jouni; Tuominen, Janne / Computer-Assisted Bilateral Teleoperation System for Water Hydraulic Manipulator.
Research output: Scientific - peer-review › Conference contribution

Herranen, Mika (Inventor); Huhtala, Kalevi (Inventor); Virvalo, Tapio (Inventor) / Control arrangement of an electro-hydraulic gas exchange valve actuation system.
Research output: Scientific › Patent

Vehkaoja, Antti; Rajala, Satu; Kumpulainen, Pekka; Lekkala, Jukka / Correlation approach for the detection of the heartbeat intervals using force sensors placed under the bed posts.
In: Journal of Medical Engineering & Technology, Vol. 37, No. 5, 2013, p. 327-333.
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Salmenperä, Mikko; Eerola, Risto; Seppälä, Jari; Koivisto, Hannu / Design and analysis of secure integration solution for Smart grids.
Research output: Scientific - peer-review › Conference contribution

Nurmi, Jarmo; Mattila, Jouni / Detection and isolation of faults in mobile hydraulic valves based on a reduced-order model and adaptive thresholds.
Research output: Scientific - peer-review › Conference contribution

Linjama, Matti / Digitaalihydrauliikan seminaarin satoa Tampereella.
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Karhu, Otso; Huhtala, Kalevi / Generic Microcontroller Board for Automated Heavy Machinery with Modular Control System.
Research output: Scientific - peer-review › Conference contribution

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

Vihonen, Juho; Honkakorpi, Janne; Mattila, Jouni; Visa, Ari / Geometry-Aided MEMS Motion State Estimation for Multi-Body Manipulators.
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Järveläinen, Matti; Salpavaara, Timo; Seppälä, Sari; Roinila, Tomi; Vilko, Matti; Levänen, Erkki / Huokoisen keraamin karakterisoimi sähköisellä herätteellä.
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Ahopelto, Miika; Backas, Joni; Ghabcheloo, Reza; Huhtala, Kalevi / Improved energy efficiency and controllability of mobile work machines by reduced engine rotational speed.
Research output: Scientific - peer-review › Conference contribution

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

Itävuo, Pekka; Vilko, Matti; Jaatinen, Antti / Indirect Particle Size Distribution Control in Cone Crushers.
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Gao, Anran; Dai, Pengfei; Lu, Na; Li, Tie; Wang, Yueling; Hemmiä, Samu; Kallio, Pasi / Integration of Microfluidic System with Silicon Nanowires Biosensor for Multiplexed Detection.
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Kivelä, Tuomo; Mattila, Jouni / Internal leakage fault detection for variable displacement axial piston pump.
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Hirvonen, Juha; Kallio, Pasi / Kohti automaattista yksiltäisten paperikuitujen manipulointia.
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Research output: Scientific - peer-review › Conference contribution

Vepsäläinen, Timo; Kuikka, Seppo / Mallipohjainen automaatio tulee.
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Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Conference contribution

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Honkakorpi, Janne; Vihonen, Juho; Mattila, Jouni / Mems sensor network based anti-sway control system for articulated hydraulic crane.

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Research output: Scientific - peer-review › Article


Research output: Scientific - peer-review › Review Article


Research output: Scientific - peer-review › Article


Research output: Scientific - peer-review › Conference contribution


Research output: Scientific - peer-review › Conference contribution


Research output: Scientific - peer-review › Conference contribution


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