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Research output: Scientific - peer-review  Conference contribution


Research output: Monograph  Doctoral Thesis


Research output: Scientific - peer-review  Article


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Research output: Scientific - peer-review › Conference contribution

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

Hietala, Jukka-Pekka; Krogerus, Tomi; Multanen, Petteri; Hyvönen, Mika; Huhtala, Kalevi / Novel Procedure for Supporting Maintenance of Mobile Work Machines Using R&D Simulators.
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Research output: Scientific - peer-review › Conference contribution

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Research output: Scientific - peer-review › Article

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Research output: Scientific - peer-review › Conference contribution


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Research output: Scientific - peer-review › Article


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Research output: Scientific - peer-review › Article


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Research output: Scientific - peer-review › Conference contribution


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Research output: Scientific › Conference contribution

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Research output: Scientific - peer-review › Conference contribution

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

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

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Heikkilä, Mikko; Linjama, Matti / Displacement control of a mobile crane using a digital hydraulic power management system.
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Research output: Scientific - peer-review › Conference contribution

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Järveläinen, Matti; Salpavaara, Timo; Seppälä, Sari; Roinila, Tomi; Vilkkko, Matti; Levänen, Erkki / Huokoinen keraamin karakterisointi sähköisellä herätteellä.
Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Conference contribution

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

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

Research output: Scientific › peer-review › Conference contribution

Research output: Professional › Article

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

Raunio, Jukka-Pekka; Ritala, Risto / Method for detecting free fiber ends in tissue paper.
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Saketi, Pooya; Mikczinski, Manuel; Fatikow, Sergej; Kallio, Pasi / Method for Investigations of Aged Fibre-Fibre Bonds with Micro and Nanorobotic Tools.
Research output: Scientific - peer-review › Conference contribution

Nummi, Jarmo; Honkakorpi, Janne; Vihonen, Juho; Mattila, Jouni / Micro-electromechanical System Sensors in Unscented Kalman Filter-based Condition Monitoring of Hydraulic Systems.
Research output: Scientific - peer-review › Conference contribution

Uotila, Turkka; Korpela, Timo; Majanne, Yrjö / Monitoring of CO2 emissions in coal fired power plants.
Research output: Scientific - peer-review › Conference contribution

Huhtala, Kalevi; Ahopelto, Miika; Heikkilä, Mikko; Backas, Joni; Tammisto, Jyrki; Huova, Mikko; Linjama, Matti / New energy efficient solutions to mobile machines.
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Ziaei, Zahra; Oftadeh, Reza; Mattila, Jouni / New Scheme for Image Space Path Planning Incorporating CAD-Based Recognition Methods for Visual Servoing.
Research output: Scientific - peer-review › Conference contribution

Kattipparambil Rajan, Dhanesh; Raunio, Jukka-Pekka; Karjalainen, Markus Tapani; Ryynänen, Tomi; Lekkala, Jukka / Novel method for intensity correction using a simple maskless lithography device.
Research output: Scientific - peer-review › Article

Roinila, Tomi; Huusari, Juha; Vilkko, Matti / On frequency-response measurements of power-electronic systems applying MIMO identification techniques.
Research output: Scientific - peer-review › Article

Roinila, Tomi; Vilkko, Matti; Sun, Jian / Online Grid Impedance Measurement Using Discrete-Interval Binary Sequence Injection.
Research output: Scientific - peer-review › Conference contribution
Roinila, Tomi; Vilkkö, Matti; Taskinen, Aki / Projektilähtöinen työkurssi osana ei-parametrisen mallinnuksen opetusmenetelmää. 
Research output: Scientific - peer-review › Conference contribution

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Research output: Professional › Article

Alho, Pekka; Mattila, Jouni / Real-Time Service-Oriented Architectures: A Data-Centric Implementation for Distributed and Heterogeneous Robotic System. 
Research output: Scientific - peer-review › Conference contribution

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

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

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

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

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

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

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


