A Reduced-Order Two-Degree-of-Freedom Composite Nonlinear Feedback Control for a Rotary DC Servo Motor
Research output: Scientific - peer-review » Conference contribution

Analysis of common rail pressure signal of dual-fuel large industrial engine for identification of injection duration of pilot diesel injectors
Research output: Scientific - peer-review » Article

Semantic Labeling of User Location Context Based on Phone Usage Features
Research output: Scientific - peer-review » Article

Output Regulation of Infinite-Dimensional Time-Delay Systems
Research output: Scientific - peer-review » Conference contribution

Conclusions
Research output: Scientific - peer-review » Chapter

Independent Loops Search in Flow Networks Aiming for Well-Conditioned System of Equations
Research output: Scientific - peer-review » Conference contribution

Kullback-Leibler Divergence Approach to Partitioned Update Kalman Filter
Raitoharju, M., García-Fernández, Á. & Piche, R. 2017 In : Signal Processing. 130
Research output: Scientific - peer-review » Article

MULTI-POS: Lessons Learnt from Fellows and Supervisors
Research output: Scientific - peer-review » Chapter

MULTI-POS: Multi-Technology Positioning Professionals Training Network
Research output: Scientific - peer-review » Chapter

Multi-Technology Positioning
Research output: Scientific - peer-review » Anthology

Teollinen internet ja semanttinen mallinnus
Research output: Scientific - peer-review » Chapter

Distribution of spin-axes longitudes and shape elongations of main-belt asteroids
Planning for robotic exploration based on forward simulation
Research output: Scientific - peer-review › Article

Asymptotic Behaviour of Platoon Systems
Research output: Scientific - peer-review › Conference contribution

Acoustic Modelling
Research output: Scientific - peer-review › Chapter

Geometric solution strategy of Laplace problems with free boundary
Research output: Scientific - peer-review › Article

Data-based stochastic modeling of tree growth and structure formation
Potapov, I., Järvenpää, M., Åkerblom, M., Raumonen, P. & Kaasalainen, M. 2016 In : Silva Fennica. 50, 1, 1413
Research output: Scientific - peer-review › Article

On Detecting the Shape of an Unknown Object in an Electric Field
Research output: Scientific - peer-review › Conference contribution

Online tests of Kalman filter consistency
Research output: Scientific - peer-review › Article

Spectral density function of the Doob transformation of fractional Brownian motion (i.e. the fractional Ornstein-Uhlenbeck process)
Research output: Scientific › Paper, poster or abstract

Binomial Gaussian mixture filter
Research output: Scientific - peer-review › Article

Graph-Based Map Matching for Indoor Positioning
Research output: Scientific - peer-review › Conference contribution

Kalman filter with a linear state model for PDR+WLAN positioning and its application to assisting a particle filter
Raitoharju, M., Nurminen, H. & Piché, R. 1 Dec 2015 In : Eurasip Journal on Advances in Signal Processing. 2015, 1, 33
Research output: Scientific - peer-review › Article

SimpleTree: An Efficient Open Source Tool to Build Tree Models from TLS Clouds
Research output: Scientific - peer-review › Article
Comparison Study for Whitney (Raviart-Thomas) Type Source Models in Finite Element Method Based EEG Forward Modeling
Research output: Scientific - peer-review › Article

CytoSpectre: A tool for spectral analysis of oriented structures on cellular and subcellular levels
Research output: Scientific - peer-review › Article

A NLOS-robust TOA positioning filter based on a skew-t measurement noise model
Research output: Scientific - peer-review › Conference contribution

Polynomial Input-Output Stability for Linear Systems
Research output: Scientific - peer-review › Article

VLT/SPHERE- and ALMA-based shape reconstruction of asteroid (3) Juno
Research output: Scientific - peer-review › Article

Modelling and control of vertical oscillation in overhead cranes
Research output: Scientific - peer-review › Conference contribution

From artificial cognitive systems and open architectures to cognitive manufacturing systems
Research output: Scientific - peer-review › Conference contribution

Received Signal Strength models for WLAN and BLE-based indoor positioning in multi-floor buildings
Research output: Scientific - peer-review › Conference contribution

Gaussian filtering and variational approximations for Bayesian smoothing in continuous-discrete stochastic dynamic systems
Research output: Scientific - peer-review › Article

ADAM: A general method for using various data types in asteroid reconstruction
Viikinkoski, M., Kaasalainen, M. & Durech, J. 1 Apr 2015 In : Astronomy and Astrophysics. 576, 11 p., A8
Research output: Scientific - peer-review › Article

On improvement of transient stage of composite nonlinear feedback control using arbitrary order set point filters
Research output: Scientific - peer-review › Conference contribution
Engineering motif search for large graphs
Research output: Scientific - peer-review » Conference contribution

Frequency domain robust regulation of signals generated by an infinite-dimensional exosystem
Research output: Scientific - peer-review » Article

GNSS orbit prediction with enhanced force model
Research output: Scientific - peer-review » Conference contribution

Massive-Scale Tree Modelling from TLS Data
Research output: Scientific - peer-review » Conference contribution

Motion Model for Positioning with Graph-Based Indoor Map
Research output: Scientific - peer-review » Conference contribution

New Insights for Relational Capital
Research output: Scientific - peer-review » Article

Nondestructive estimates of above-ground biomass using terrestrial laser scanning
Research output: Scientific - peer-review » Article

Novel Method For Online Stereo Self-Calibration
Melin, J. & Ritala, R. 2015 XXI IMEKO World Congress "Measurements In Research and Industry".
Research output: Scientific - peer-review » Conference contribution

On Robustness of Strongly Stable Semigroups with Spectrum on iR
Research output: Scientific - peer-review » Chapter

Ostinato: The Exploration-Automation Cycle of User-Centric, Process-Automated Data-Driven Visual Network Analytics
Research output: Scientific - peer-review » Chapter

Perfect Pavelka Logic
Research output: Scientific - peer-review » Article
Quantitative structure tree models from terrestrial laser scanner data
Research output: Professional › Conference contribution

Reducing uncertainties in above-ground biomass estimates using terrestrial laser scanning
Research output: Professional › Conference contribution

Robustness of strong stability of discrete semigroups
Research output: Scientific - peer-review › Article

Robust Regulation of SISO Systems: The Fractional Ideal Approach
Research output: Scientific - peer-review › Conference contribution

Robust Regulation Theory for Transfer Functions With a Coprime Factorization
Research output: Scientific - peer-review › Article

Simulointi nopeuttaa käytöönsä määrittämää
Research output: Professional › Article

Terrestrial LiDAR and 3D tree Quantitative Structure Model for quantification of aboveground biomass loss from selective logging in a tropical rainforest of Peru
Research output: Professional › Conference contribution

Traceability of essential climate variables through forest stand reconstruction with terrestrial laser scanning
Research output: Professional › Conference contribution

Using context overlays to analyse the role of a priori information with Process Mining
Research output: Scientific - peer-review › Conference contribution

UWB Positioning with Generalized Gaussian Mixture Filters
Research output: Scientific - peer-review › Article

Finite Element Method for Electromagnetics on Riemannian Manifolds: Topology and Differential Geometry Toolkit
Pellikka, M. 2 May 2014 Tampere: Tampere University of Technology. 131 p. (Tampere University of Technology. Publication; vol. 1209)
Research output: Monograph › Doctoral Thesis
A Measurement-based Statistical Model to Evaluate Uncertainty in Long-range Noise Assessments
Maijala, P. 3 Jan 2014 VTT. 178 p. (VTT Science; vol. 48)
Research output: Monograph › Doctoral Thesis

20th Inverse Days 2014, Tampere 9th-11th December 2014: Abstracts
Research output: Professional › Commissioned report

Adaptive mobile tracking in unknown non-line-of-sight conditions with application to digital TV networks
Research output: Scientific - peer-review › Article

A field test of parametric WLAN-fingerprint-positioning methods
Research output: Scientific - peer-review › Conference contribution

A method to enforce map constraints in a particle filter’s position estimate
Research output: Scientific - peer-review › Conference contribution

An algebraic study of Peterson’s Intermediate Syllogisms
Research output: Scientific - peer-review › Article

A New Controller Structure for Robust Output Regulation
Research output: Scientific - peer-review › Conference contribution

Another paraconsistent algebraic semantics for Lukasiewicz-Pavelka logic
Research output: Scientific - peer-review › Article

Application of Hill-Clohessy-Wiltshire Equation in GNSS Orbit Prediction
Research output: Scientific - peer-review › Conference contribution

A Time-Harmonic Approach to Numerically Model Losses in the Metal Matrix in Twisted Superconductors in External Magnetic Field
Research output: Scientific - peer-review › Article

Bayesian Methods for Hybrid Indoor Positioning
Research output: Scientific - peer-review › Conference contribution
Change Detection of Tree Biomass with Terrestrial Laser Scanning and Quantitative Structure Modelling
Research output: Scientific - peer-review › Article

Evaluating the Consistency of Estimation
Research output: Scientific - peer-review › Conference contribution

Gaussian Scale Mixture Models For Robust Linear Multivariate Regression With Missing Data
Research output: Scientific - peer-review › Article

Indirect Emissions of Forest Bioenergy: Detailed Modelling of Stump-Root Systems
Research output: Scientific - peer-review › Article

Minimal Solutions of Fuzzy Relation Equations with General Operators on the Unit Interval
Research output: Scientific - peer-review › Conference contribution

Modelling of Joule heating based self-alignment method for metal grid line passivation
Research output: Scientific - peer-review › Conference contribution

On Convergence and Accuracy of State-Space Approximations of Squared Exponential Covariance Functions
Research output: Scientific - peer-review › Conference contribution

On polynomial stability of linear systems
Research output: Scientific - peer-review › Conference contribution

Optimal storage scheme for access point coverage data
Research output: Scientific › Patent

Performance of HQ02, an Optimized Version of the 120 mm Nb3Sn LARP Quadrupole
Research output: Scientific - peer-review › Article

Predicting tree structure from tree height using terrestrial laser scanning and quantitative structure models
Research output: Scientific - peer-review › Article
Quench Protection Study of the Nb3Sn Low-beta Quadrupole for the LHC Luminosity Upgrade
Research output: Scientific - peer-review » Article

Robustness of Controllers for SISO-Plants and Signals Generated by an Infinite-Dimensional Exosystem
Research output: Scientific - peer-review » Conference contribution

The Internal Model Principle for Systems with Unbounded Control and Observation
Research output: Scientific - peer-review » Article

The Role of Exosystems in Output Regulation
Research output: Scientific - peer-review » Article

Tree Root System Characterization and Volume Estimation by Terrestrial Laser Scanning and Quantitative Structure Modeling
Research output: Scientific - peer-review » Article

Algorithm for Pedestrian Navigation Combining IMU Measurements and Gait Models
Davidson, P. & Takala, J. 2013 In : Gyroscopy and Navigation. 4, 2, p. 79-84 6 p.
Research output: Scientific - peer-review » Article

A linear state model for PDR+WLAN positioning
Research output: Scientific - peer-review » Conference contribution

Bandwidth and Storage Reduction of Radio Maps for Offline WLAN Positioning
Research output: Scientific - peer-review » Conference contribution

Bayesian trees and forests: combining precise empirical and theoretical tree models
Research output: Scientific - peer-review » Conference contribution

Canonical methods of constructing invariant tori by phase-space sampling
Research output: Scientific - peer-review » Article

Challenges in Heterogeneous Web Data Analytics - Case Finnish Growth Companies in Social Media
Manifolds in electromagnetism and superconductor modelling: Using their properties to model critical current of twisted conductors in self-field with 2-D model

Networks of innovation relationships: multiscopic views on Finland

Normal Distributions Transform Occupancy Maps: Application to Large-Scale Online 3D Mapping

On the Structure of Robust Controllers for Infinite-Dimensional Systems

Particle filter and smoother for indoor localization

Pedestrian Navigation Based on Inertial Sensors, Indoor, Map, and WLAN Signals

Process for Measuring and Visualizing an Open Innovation Platform: Case Demola

Rapid Characterisation of Forest Structure from TLS and 3D Modelling

Relational Capital and Social Capital: One or two Fields of Research?

SO-I: a surrogate model algorithm for expensive nonlinear integer programming problems including global optimization applications