Situation Awareness Framework for Multi-machine Environments: An Application to Operator Assistive Collision Warning System. / Rajala, Miika; Ritala, R.
Research output: Scientific - peer-review › Article

Management of distributed knowledge encapsulated in embedded devices. / Ramis Ferrer, Borja; Iarovyi, Sergii; Gonzalez, Luis; Lobov, Andrei; Martinez Lastra, Jose L.
Research output: Scientific - peer-review › Article

Binomial Gaussian mixture filter. / Raitoharju, Matti; Ali-Löytty, Simo; Piché, Robert.
Research output: Scientific - peer-review › Article

CytoSpectre: A tool for spectral analysis of oriented structures on cellular and subcellular levels. / Kartasalo, Kimmo; Polonen, Risto-Pekka; Ojala, Marisa; Rasku, Jyrki; Lekkala, Jukka; Aalto-Setälä, Katriina; Kallio, Pasi.
Research output: Scientific - peer-review › Article

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

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

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

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

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.
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

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

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

Ontology-Based Backend Engine for Manufacturing and Logistics Systems. / Xu, Xiangbin.
Research output: Scientific - peer-review › Chapter

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

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

Anomaly detection for communication network monitoring applications. / Kumpulainen, Pekka.
Tampere : Tampere University of Technology, 2014. 172 p. (Tampere University of Technology. Publication; No. 1192).
Research output: Monograph › Doctoral Thesis

A framework for fast low-power multi-sensor 3D scene capture and reconstruction. / Chuchvara, Aleksanda; Georgiev, Mihail; Gotchev, Atanas.
Research output: Scientific - peer-review › Conference contribution

Detection of Prostate Cancer by an Electronic Nose; A Proof of Principle Study. / Roine, Antti; Veskimäe, Erik; Tuokko, Antti; Kumpulainen, Pekka; Koakimäki, Juha; Keinänen, Tuomo A.; Häkkinen, Merja R.; Vepsäläinen, Jouko; Paavonen, Timo; Lekkala, Jukka; Lehtimäki, Terho; Tammela, Teuvo L.; Oksala, Niku K.J.
Research output: Scientific - peer-review › Article

Ecosystemic relational capital: framework and process for measuring it. / Still, Kaisa; Huhtamäki, Jukka; Russell, Martha G.
Insights for orchestrating innovation ecosystems: the case of EIT ICT Labs and data-driven network visualisations. / Still, Kaisa; Huhtamäki, Jukka; Russell, Martha G.; Rubens, Neil.
Research output: Scientific - peer-review › Article

Modeling Drug Delivery in Gravity-Driven Microfluidic System. / Mäki, Anti-Juhana; Kreutzer, Joose; Kallio, Pasi.
Research output: Scientific - peer-review › Conference contribution

New Insights for Relational Capital. / Still, Kaisa; Huhtamäki, Jukka; Russell, Martha.
Research output: Scientific - peer-review › Conference contribution

Perusteita seuraavan sukupolven metsävarajärjestelmälle - Forest Big Data-hanke. / Hämäläinen, Jarmo; Holopainen, Markus; Hynynen, Jari; Jyrkilä, Jorma; Rajala, Pekka T; Ritala, Risto; Räsänen, Tapio; Visala, Arto.
Research output: Scientific › Article

Analysing 3G radio network performance with fuzzy methods. / Kumpulainen, Pekka; Särkioja, Mika; Kylväjä, Mikko; Hätönen, Kimmo.
Research output: Scientific - peer-review › Article

Bayesian analysis of GUHA hypotheses. / Piche, Robert; Järvenpää, Marko; Turunen, Esko; Simunek, Milan.
Research output: Scientific - peer-review › Article

Capacitive facial activity measurement. / Rantanen, Ville; Kumpulainen, Pekka; Venesvirta, Hanna; Verho, Jarmo; Spakov, Oleg; Lylykangas, Jani; Vetek, Akos; Surakka, Veikko; Lekkala, Jukka.
Research output: Scientific - peer-review › Article

Device self-calibration in location systems using signal strength histograms. / Laoudias, Christos; Piche, Robert; Panayiotou, Christos G.
Research output: Scientific - peer-review › Article

EANN 2012: exploratory analysis of mobile phone traffic patterns using 1-dimensional SOM, clustering and anomaly detection. / Kumpulainen, Pekka; Hätönen, Kimmo.
Research output: Scientific - peer-review › Article