Enso Ikonen

List of Publications by Year
in descending order

58 papers	317 citations	1040056 9 h-index	996975 15 g-index
58 all docs	58 docs citations	58 times ranked	270 citing authors

#	Article	IF	Citations
1	Neuro-fuzzy modelling of power plant flue-gas emissions. Engineering Applications of Artificial Intelligence, 2000, 13, 705-717.	8.1	40
2	Forecasting time series with a new architecture for polynomial artificial neural network. Applied Soft Computing Journal, 2007, 7, 1209-1216.	7.2	23
3	Oxidant control and air-oxy switching concepts for CFB furnace operation. Computers and Chemical Engineering, 2014, 61, 203-219.	3.8	22
4	Dynamic model for a bubbling fluidized bed coal combustor. Control Engineering Practice, 1994, 2, 1001-1006.	5.5	19
5	Fuzzy neural networks and application to the FBC process. IET Control Theory and Applications, 1996, 143, 259-269.	1.7	15
6	Self-optimizing control structure design in oxy-fuel circulating fluidized bed combustion. International Journal of Greenhouse Gas Control, 2015, 43, 93-107.	4.6	15
7	Process control using finite Markov chains with iterative clustering. Computers and Chemical Engineering, 2016, 93, 293-308.	3.8	12
8	Use of learning automata in distributed fuzzy logic processor training. IET Control Theory and Applications, 1997, 144, 255-262.	1.7	11
9	Open-loop regulation and tracking control based on a genealogical decision tree. Neural Computing and Applications, 2006, 15, 339-349.	5.6	10
10	Multiple Model-Based Control Using Finite Controlled Markov Chains. Cognitive Computation, 2009, 1, 234-243.	5.2	10
11	Short term optimization of district heating network supply temperatures. , 2014, , .		10
12	Modelling of Pulp Flow Rate with Variable Consistency. Neural Computing and Applications, 2000, 9, 165-171.	5.6	9
13	Online optimization of replacement policies using learning automata. International Journal of Systems Science, 2008, 39, 237-249.	5.5	8
14	Integrated control and process design for improved load changes in fluidized bed boiler steam path. Chemical Engineering Science, 2019, 199, 164-178.	3.8	8
15	Adaptive selection of the optimal order of linear regression models using learning automata. International Journal of Systems Science, 1996, 27, 151-159.	5.5	7
16	Distributed logic processors trained under constraints using stochastic approximation techniques. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 1999, 29, 421-426.	2.9	7
17	Non-linear process modelling based on a Wiener approach. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2001, 215, 15-27.	1.0	7
18	Calculation of residence time for nonlinear systems. International Journal of Systems Science, 1996, 27, 661-667.	5.5	5

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19	A Genealogical Decision Tree Solution to Optimal Control Problems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 169-174.	0.4	5
20	Refiner quality control in a CTMP plant. , 2009, , .		5
21	Energy efficient control techniques in continuous cooking application. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 297-302.	0.4	5
22	Monitoring and control of chip quality in chemical pulping. Nordic Pulp and Paper Research Journal, 2015, 30, 149-159.	0.7	5
23	Optimization based on a team of automata with binary outputs. Automatica, 2004, 40, 1349-1359.	5.0	4
24	Circulating fluidized bed boiler state estimation with an unscented Kalman filter tool. , 2014, , .		4
25	Once-through Circulating Fluidized Bed Boiler Control Design with the Dynamic Relative Gain Array and Partial Relative Gain. Industrial & Engineering Chemistry Research, 2017, 56, 14290-14303.	3.7	4
26	Control Structure Design for Oxy-Fired Circulating Fluidized Bed Boilers Using Self-Optimizing Control and Partial Relative Gain Analyses. IFAC-PapersOnLine, 2017, 50, 2023-2030.	0.9	4
27	APPLICATION OF GENEALOGICAL DECISION TREES FOR OPEN-LOOP TRACKING CONTROL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 288-293.	0.4	3
28	STATE ESTIMATION AND PREDICTIVE CONTROL USING FINITE MARKOV CHAINS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 67-72.	0.4	3
29	Adaptive Process Control Using Controlled Finite Markov Chains Based on Multiple Models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 7919-7924.	0.4	3
30	Short-term pump schedule optimization using MDP and neutral GA. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 315-320.	0.4	3
31	Scheduling and disturbance control of a water distribution network. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 7138-7143.	0.4	3
32	Plant-wide control approach in a pilot CFB boiler. , 2015, , .		3
33	MacPherson suspension system modeling and control with MDP. , 2016, , .		3
34	Integrated control and process design in CFB boiler design and control - application possibilities. IFAC-PapersOnLine, 2017, 50, 1997-2004.	0.9	3
35	Stochastic learning control for nonlinear systems. , 0, , .		2
36	Learning Predictive Control Using Probabilistic Models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 43-48.	0.4	2

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37	Forecasting time series with a logarithmic model for the Polynomial Artificial Neural Networks. , 2011, , .		2
38	Identification and monitoring of failure pathways in a chemical pulping line. Nordic Pulp and Paper Research Journal, 2012, 27, 568-576.	0.7	2
39	Active suspension control with state estimation using finite Markov chains. International Journal of Advanced Mechatronic Systems, 2017, 7, 183.	0.2	2
40	Examination of operational optimization at Kemi district heating network. Thermal Science, 2016, 20, 667-678.	1.1	2
41	MODELLING OF AN INTEGRATED SUPERHEATER BASED ON A WIENER APPROACH. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 133-138.	0.4	1
42	Model-Based Multivariable Control of a Secondary Air System Using Controlled Finite Markov Chains. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 38-43.	0.4	1
43	Analysis and tuning of a CFB model using particle filtering. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 711-716.	0.4	1
44	Optimization of Pumping Schedules Using the Genealogical Decision Tree Approach. Chemical Product and Process Modeling, 2012, 7, .	0.9	1
45	On the bounds of the fastest admissible decay of generalized energy in controlled LTI systems subject to state and input constraints. , 2018, , .		1
46	Validation of a Nonlinear Two-dimensional MacPherson Suspension System Model with Multibody Simulations. , 2018, , .		1
47	Role of specific energy in decomposition of time-invariant least-cost reservoir filling problem. European Journal of Operational Research, 2019, 272, 565-573.	5.7	1
48	DISTRIBUTED WIENER LOGIC PROCESSORS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 391-396.	0.4	0
49	Improved version of the McMurtry-Fu reinforcement learning scheme. International Journal of Systems Science, 2003, 34, 37-47.	5.5	0
50	Process regulation via genealogical decision trees. Optimal Control Applications and Methods, 2009, 30, 121-133.	2.1	0
51	Gain scheduling control with Markov transition models. , 2009, , .		0
52	Analysis of students' study paths using finite Markov chains. , 2009, , .		0
53	Tube-based robust MPC for pump scheduling in water distribution systems. , 2016, , .		0
54	Finite state estimation and control of a multi-input CSTR benchmark * *This paper was prepared during E. Ikonen's visit to Departamento de Ingeniería de Sistemas y Automática (Málaga, Spain) with financial support from the Foundations' Professor Pool (Suomen Kulttuurirahasto, Kalle ja Dagmar Välimaan) Tj ETQq0 0 0 rgBT /Overlock 10	0.9	0

#	Article	IF	Citations
55	Dynamic Modelling and Optimization of a Supermarket CO_2 Refrigeration System for Demand Side Management. , 2018, , .		0
56	Fundamental Limitations of the Decay of Generalized Energy in Controlled (Discrete–Time) Nonlinear Systems Subject to State and Input Constraints. International Journal of Applied Mathematics and Computer Science, 2019, 29, 629-639.	1.5	0
57	Calibration of Physical Models with Process Data using FIR Filtering. , 2020, , .		0
58	On-line estimation of circulating fluidized bed boiler fuel composition. , 2022, , .		0