

## Best cited papers in IEEE Trans. on Industrial Informatics

Cites	Authors	Title	Year	Iss.	Section
193	F. Jammes and H. Smit	Service-oriented paradigms in industrial automation	2005	1	P
90	A Willig	Recent and emerging topics in wireless industrial communications: A selection	2008	2	R
76	K. Thramboulidis	Model-integrated mechatronics-toward a new paradigm in the development of manufacturing systems	2005	1	P
74	J. L. M. Lastra and I. M. Delamer	Semantic web services in factory automation: fundamental insights and research roadmap	2006	1	P
66	F. De Pellegrini, D. Miorandi, S. Vitturi, and A. Zanella	On the use of wireless networks at low level of factory automation systems	2006	2	R
63	A. P. Kalogeras, J. V. Gialelis, C. E. Alexakos, M. J. Georgoudakis, and S. A. Koubias	Vertical integration of enterprise industrial systems utilizing web services	2006	2	S
60	Zhi Wu Li MengChu Zhou	Two-stage method for synthesizing liveness-enforcing supervisors for flexible manufacturing systems using Petri nets	2006	4	I
58	P. Pedreiras, P. Gai, L. Almeida, and G. C. Buttazzo	FTT-Ethernet: a flexible real-time communication protocol that supports dynamic QoS management on Ethernet-based systems	2005	3	S
39	T. T. Quan, S. C. Hui, and A. C. M. Fong	Automatic fuzzy ontology generation for semantic help-desk support	2006	3	P
39	V. V. Vyatkin, J. H. Christensen, and J. L. M. Lastra	OOONEIDA: an open, object-oriented knowledge economy for intelligent industrial automation	2005	1	P
38	T. Skeie, S. Johannessen, and Ø. Holmeide	Timeliness of real-time IP communication in switched industrial Ethernet networks	2006	1	P
34	G. Acampora and V. Loia	Fuzzy control interoperability and scalability for adaptive domotic framework	2005	2	P
33	H. Zhang, J. Yang, and C.-Y. Su	TS fuzzy-model-based robust $H^\infty$ design for networked control systems with uncertainties	2007	4	R
32	L. Gomes and J. P. Barros	Structuring and composability issues in Petri nets modeling	2005	2	P
30	L. Tang, K.-C. Wang, Y. Huang, and F. Gu	Channel characterization and link quality assessment of IEEE 802.15. 4-compliant radio for factory environments	2007	2	S
30	T. Nolte, M. Nolin, and H. A. Hansson	Real-time server-based communication with CAN Closed-loop matrix based model of discrete event systems for machine logic control design	2005	3	S
26	A. Poliřc and K. Jezernik	Modular wireless real-time sensor/actuator network for factory automation applications	2005	1	P
24	H.-J. Körber, H. Wattar, and G. Scholl	Application of neural networks in optical inspection and classification of solder joints in surface mount technology	2007	2	S
24	G. Acciani, G. Brunetti, and G. Fornarelli	Web-based command shaping of cobra 600 robot with a swinging load	2006	3	P
24	T. Chang, P. Jaroonsiriphan, M. Bernhardt, and P. Ludden	System level design for clustered wireless sensor networks	2006	1	P
23	A. Bonivento, C. Fischione, L. Necchi, F. Pianegiani, and A. Sangiovanni-Vincentelli	Evaluation of response times in industrial WLANs	2007	3	S
23	G. Cena, I. C. Bertolotti, A. Valenzano, and C. Zunino		2007	3	S

		Network architecture and communication modules for guaranteeing acceptable control and communication performance for networked multi-agent systems	2006	1	P
23	F.-L. Lian, J. K. Yook, D. M. Tilbury, and J. Moyne				
23	L. Lo Bello, G. A. Kaczyn'ski, and O. Mirabella	Improving the real-time behavior of Ethernet networks using traffic smoothing	2005	3	S
22	M. Short and M. J. Pont	Fault-tolerant time-triggered communication using CAN	2007	2	R
22	A. Kusiak and Z. Song	Combustion efficiency optimization and virtual testing: A data-mining approach	2006	3	P
20	M. Marinoni and G. Buttazzo	Elastic DVS management in processors with discrete voltage/frequency modes	2007	1	I
20	G. Prati, D. Dietrich, G. P. Hancke, and W. T. Penzhorn	A new model for autonomous, networked control systems	2007	1	I
20	T. M. Chan, K. F. Man, K. S. Tang, and S. Kwong	A jumping-genes paradigm for optimizing factory WLAN network	2007	1	I
20	J. Ferreira, L. Almeida, J. A. Fonseca, P. Pedreiras, E. F. V. Martins, G. Rodríguez-Navas, J. Rigo, and J. Proenza	Combining operational flexibility and dependability in FTT-CAN	2006	2	S
20	N. Hagge and B. Wagner	A new function block modeling language based on petri nets for automatic code generation	2005	4	P
20	K. C. Lee, S. Lee, and M. H. Lee	QoS-based remote control of networked control systems via Profibus token passing protocol	2005	3	S
19	N. Pereira, B. Andersson, and E. Tovar	WiDom: A dominance protocol for wireless medium access	2007	2	S
18	Y. Xu, R. Song, L. Korba, L. Wang, W. Shen, and S. Lang	Distributed device networks with security constraints	2005	4	P
17	A. Lüder, A. Klostermeyer, J. Peschke, A. Bratoukhine, and T. Sauter	Distributed automation: PABADIS versus HMS	2005	1	P
16	F. Tao, D. Zhao, Y. Hu, and Z. Zhou	Resource service composition and its optimal-selection based on particle swarm optimization in manufacturing grid system	2008	4	R
16	K. Natori, R. Oboe, and K. Ohnishi	Stability analysis and practical design procedure of time delayed control systems with communication disturbance observer	2008	3	I
16	R Obermaisser	Reuse of CAN-based legacy applications in time-triggered architectures	2006	4	I
16	G. Cena and V. Valenzano	On the properties of the flexible time division multiple access technique	2006	2	S
16	A. Talevski, E. Chang, and T. S. Dillon	Reconfigurable web service integration in the extended logistics enterprise	2005	2	P
16	M. Ulieru and M. Cobzaru	Building holonic supply chain management systems: an e-logistics application for the telephone manufacturing industry	2005	1	P
15	R. Moraes, F. Vasques, P. Portugal, and J. A. Fonseca	VTP-CSMA: A virtual token passing approach for real-time communication in IEEE 802.11 wireless networks	2007	3	S
15	Delamer, I.M. Lastra, J.L.M.	Service-oriented architecture for distributed publish/subscribe middleware in electronics production	2006	4	I
15	M. Barranco, J. Proenza, G.	An active star topology for improving fault	2006	2	S

	Rodríguez-Navas, and L. Almeida	confinement in CAN networks			
15	A. Willig	Redundancy concepts to increase transmission reliability in wireless industrial LANs	2005	3	S
15	S. Cavalieri	Meeting real-time constraints in CAN	2005	2	P
14	Z. Song and A. Kusiak	Constraint-based control of boiler efficiency: A data-mining approach	2007	1	I
14	J. Ploennigs, P. Buchholz, M. Neugebauer, and K. Kab	Automated modeling and analysis of CSMA-type access schemes for building automation networks	2006	2	S
14	S Simani	Identification and fault diagnosis of a simulated model of an industrial gas turbine	2005	3	R
13	S Eberle	Adaptive internet integration of field bus systems	2007	1	I
13	J. Li, Y. Song, and F. Simonot-Lion	Providing Real-Time Applications With Graceful Degradation of QoS and Fault Tolerance According to $(m, k)$ -Firm Model	2006	2	S
13	M. Long, C.-H. Wu, and J. Y. Hung	Denial of service attacks on network-based control systems: impact and mitigation	2005	2	P
12	CY Chang	Adaptive fuzzy controller of the overhead cranes with nonlinear disturbance	2007	2	R
12	N. Pogkas, G. F. Karastergios, C. P. Antonopoulos, S. Koubias, and G. Papadopoulos	Architecture design and implementation of an ad-hoc network for disaster relief operations	2007	1	I
12	M Staroswiecki	Intelligent sensors: A functional view	2005	4	P
11	C. Lozoya, M. Velasco, and P. Martí	The one-shot task model for robust real-time embedded control systems	2008	3	I
11	Orlowska-Kowalska, T. Szabat, K. Ferrari, P. Flammini, A. Marioli, D. Taroni, A.	Damping of torsional vibrations in two-mass system using adaptive sliding neuro-fuzzy approach	2008	1	I
11		A distributed instrument for performance analysis of real-time Ethernet networks	2008	1	I
11	S. Ali, B. Soh, and T. Torabi	A novel approach toward integration of rules into business processes using an agent-oriented framework	2006	3	P