

Jin-Shyan Lee

List of Publications by Year in descending order

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58
papers

2,112
citations

567281

15
h-index

580821

25
g-index

58
all docs

58
docs citations

58
times ranked

2027
citing authors

#	ARTICLE	IF	CITATIONS
1	A Comparative Study of Wireless Protocols: Bluetooth, UWB, ZigBee, and Wi-Fi. , 2007, , .		621
2	Fuzzy-Logic-Based Clustering Approach for Wireless Sensor Networks Using Energy Predication. IEEE Sensors Journal, 2012, 12, 2891-2897.	4.7	407
3	An Improved Three-Layer Low-Energy Adaptive Clustering Hierarchy for Wireless Sensor Networks. IEEE Internet of Things Journal, 2016, 3, 951-958.	8.7	124
4	An Enhanced Hierarchical Clustering Approach for Mobile Sensor Networks Using Fuzzy Inference Systems. IEEE Internet of Things Journal, 2017, 4, 1095-1103.	8.7	116
5	Performance evaluation of IEEE 802.15.4 for low-rate wireless personal area networks. IEEE Transactions on Consumer Electronics, 2006, 52, 742-749.	3.6	115
6	The Extreme Edge at the Bottom of the Internet of Things: A Review. IEEE Sensors Journal, 2019, 19, 3179-3190.	4.7	74
7	An Application of Petri Nets to Supervisory Control for Human-Computer Interactive Systems. IEEE Transactions on Industrial Electronics, 2005, 52, 1220-1226.	7.9	65
8	Development of an Enhanced Threshold-Based Fall Detection System Using Smartphones With Built-In Accelerometers. IEEE Sensors Journal, 2019, 19, 8293-8302.	4.7	61
9	A Petri Net Design of Command Filters for Semiautonomous Mobile Sensor Networks. IEEE Transactions on Industrial Electronics, 2008, 55, 1835-1841.	7.9	53
10	An Experiment on Performance Study of IEEE 802.15.4 Wireless Networks. , 0, , .		44
11	An Experimental Heuristic Approach to Multi-Pose Pedestrian Dead Reckoning Without Using Magnetometers for Indoor Localization. IEEE Sensors Journal, 2019, 19, 9532-9542.	4.7	36
12	Design and Implementation of the SNMP Agents for Remote Monitoring and Control via UML and Petri Nets. IEEE Transactions on Control Systems Technology, 2004, 12, 293-302.	5.2	32
13	Applications of Short-Range Wireless Technologies to Industrial Automation: A ZigBee Approach. , 2009, , .		31
14	ITRI ZBnode: A ZigBee/IEEE 802.15.4 Platform for Wireless Sensor Networks. , 2006, , .		30
15	Remote supervisory control of the human-in-the-loop system by using Petri nets and java. IEEE Transactions on Industrial Electronics, 2003, 50, 431-439.	7.9	28
16	A preliminary study of low power wireless technologies: ZigBee and Bluetooth Low Energy. , 2015, , .		27
17	A Petri-Net Approach to Modular Supervision With Conflict Resolution for Semiconductor Manufacturing Systems. IEEE Transactions on Automation Science and Engineering, 2007, 4, 584-588.	5.2	22
18	Development of smart shopping carts with customer-oriented service. , 2016, , .		21

#	ARTICLE	IF	CITATIONS
19	Multiparadigm Modeling for Hybrid Dynamic Systems Using a Petri Net Framework. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2008, 38, 493-498.	2.9	18
20	A systematic approach for the sequence controller design in manufacturing systems. International Journal of Advanced Manufacturing Technology, 2005, 25, 754-760.	3.0	17
21	Implementation of a Remote Hierarchical Supervision System Using Petri Nets and Agent Technology. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2007, 37, 77-85.	2.9	16
22	Experimental Evaluation of ZigBee-Based Wireless Networks in Indoor Environments. Journal of Engineering (United States), 2013, 2013, 1-9.	1.0	16
23	An improved evaluation of ladder logic diagrams and Petri nets for the sequence controller design in manufacturing systems. International Journal of Advanced Manufacturing Technology, 2004, 24, 279.	3.0	14
24	An Extended Hierarchical Clustering Approach to Energy-Harvesting Mobile Wireless Sensor Networks. IEEE Internet of Things Journal, 2021, 8, 7105-7114.	8.7	14
25	Enhanced fuzzy logic-based power-assisted control with user-adaptive systems for human electric bikes. IET Intelligent Transport Systems, 2019, 13, 1492-1498.	3.0	11
26	A PLC-based design for the sequence controller in discrete event systems. , 0, , .		10
27	Design and Implementation of ZigBee/IEEE 802.15.4 Nodes for Wireless Sensor Networks. Measurement and Control, 2006, 39, 204-208.	1.8	9
28	Design and simulation of control systems for electric-assist bikes. , 2016, , .		9
29	An Application of Grey Prediction to Transmission Power Control in Mobile Sensor Networks. IEEE Internet of Things Journal, 2018, 5, 2154-2162.	8.7	9
30	Development of indoor air quality supervision systems using ZigBee wireless networks. , 2018, , .		9
31	A new approach to evaluate ladder logic diagrams and Petri nets via the IF-THEN transformation. , 0, , .		6
32	UML-based modeling and multi-threaded simulation for hybrid dynamic systems. , 0, , .		6
33	STATECHART MODELING AND WEB-BASED SIMULATION OF HYBRID DYNAMIC SYSTEMS FOR E-AUTOMATION. Journal of the Chinese Institute of Industrial Engineers, 2005, 22, 19-27.	0.5	4
34	Design of remote environmental monitoring systems. , 0, , .		3
35	A filtering agent scheme to remote control of industrial processes using Petri nets. Expert Systems With Applications, 2011, 38, 15310-15315.	7.6	3
36	Performance evaluation of ZigBee-based sensor networks using empirical measurements. , 2012, , .		3

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37	Development of residential lighting control systems using ZigBee wireless technology. , 2017, , .		3
38	Development of AI-based Recycling Bins Using MobileNet-SSD Networks. , 2021, , .		3
39	An IDEF0/Petri net approach to the system integration in semiconductor manufacturing systems. , 0, , .		2
40	Development of a Petri net-based fault diagnostic system for industrial processes. , 2009, , .		2
41	A modular command filtering approach to coordination of flexible manufacturing systems. International Journal of Advanced Manufacturing Technology, 2011, 56, 1115-1123.	3.0	2
42	A comparative study of communication disturbance observers for time-delay systems. , 2014, , .		2
43	Development of an Automatic Custom-Made Drink Making System Using PLC and Java Applet. , 2019, , .		2
44	Development of Imitated-Handwriting Systems Using PLC-Controlled CoreXY Mechanisms. , 2019, , .		2
45	A Vectorized Data Communication System for Localization in ZigBee Sensor Networks. Advanced Science Letters, 2012, 9, 487-492.	0.2	2
46	Design and Implementation of Smart Agricultural Systems Based on Networked PLC and Mobile App. , 2021, , .		2
47	Development of Fuzzy-Logic-Based Controllers for Energy Conservation in Human-Electric Bikes. , 2021, , .		2
48	An object-oriented design of the hybrid controller for automated vehicles in an AHS. , 0, , .		1
49	A Command Filtering Framework to Collision Avoidance for Mobile Sensory Robots. , 2007, , .		1
50	A preliminary application of Petri nets to the supervision of remotely operated systems. , 2010, , .		1
51	A gateway-based inter-PAN binding mechanism for ZigBee sensor networks. , 2011, , .		1
52	A Petri-net approach to hierarchical supervision for remote-controlled processes. , 0, , .		0
53	A multi-paradigm modeling approach for hybrid dynamic systems. , 0, , .		0
54	Model construction of pharmaceutical manufacturing processes using Petri nets. , 2011, , .		0

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55	A UML-based approach to automatic cruise control modeling for smart vehicles. , 2012, , .		0
56	Hybrid P2P Client-Server Data Transmission Using Dynamic Peer Grouping and Switching. , 2012, , .		0
57	Behavior modeling and remote control of industrial conveyor systems via internet. , 2013, , .		0
58	Applications of support vector machines to standby power reduction. , 2016, , .		0