Alberto L Sangiovanni-Vincentelli

List of Publications by Year
in descending order

398 papers	17,511 citations	34105 52 h-index	30922 102 g-index
409 all docs	409 docs citations	409 times ranked	6535 citing authors

#	Article	IF	Citations
1	Emotional Semantics-Preserved and Feature-Aligned CycleGAN for Visual Emotion Adaptation. IEEE Transactions on Cybernetics, 2022, 52, 10000-10013.	9.5	6
2	Synthetic Data in DC Microgrids: Label Creation for Ensemble Learning for Fault Isolation. IEEE Transactions on Power Delivery, 2022, 37, 2301-2313.	4.3	3
3	A Review of Single-Source Deep Unsupervised Visual Domain Adaptation. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 473-493.	11.3	123
4	Voltage Regulation and Current Sharing in DC Microgrids With Different Information Scenarios. IEEE Transactions on Control Systems Technology, 2022, 30, 1905-1919.	5.2	7
5	Hypercontracts. Lecture Notes in Computer Science, 2022, , 674-692.	1.3	2
6	Adaptive Body Area Networks Using Kinematics and Biosignals. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 623-633.	6.3	17
7	AVDM: A hierarchical command-and-control system architecture for cooperative autonomous vehicles in highways scenario using microscopic simulations. Autonomous Agents and Multi-Agent Systems, 2021, 35, 1.	2.1	8
8	Industrial control via application containers: Maintaining determinism in IAAS. Systems Engineering, 2021, 24, 352-368.	2.7	2
9	Explainable AI for Chiller Fault-Detection Systems: Gaining Human Trust. Computer, 2021, 54, 60-68.	1.1	19
10	A Hierarchical State-Machine-Based Framework for Platoon Manoeuvre Descriptions. IEEE Access, 2021, 9, 128393-128406.	4.2	3
11	Safety in Autonomous Driving: Can Tools Offer Guarantees?. , 2021, , .		5
12	Optimized Selection of Reliable and Cost-Effective Safety-Critical System Architectures. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 2109-2123.	2.7	16
13	ODRE Workshop: Probabilistic Dynamic Hard Real-Time Scheduling in HPC. , 2020, , .		4
14	Driving-Style-Based Codesign Optimization of an Automated Electric Vehicle: A Cyber-Physical System Approach. IEEE Transactions on Industrial Electronics, 2019, 66, 2965-2975.	7.9	195
15	A new simulation metric to determine safe environments and controllers for systems with unknown dynamics. , 2019, , .		8
16	Industrial Control via Application Containers: Migrating from Bare-Metal to IAAS. , 2019, , .		13
17	Domain Randomization and Pyramid Consistency: Simulation-to-Real Generalization Without Accessing Target Domain Data. , 2019, , .		177
18	Detecting and Diagnosing Incipient Building Faults Using Uncertainty Information from Deep Neural Networks. , 2019, , .		16

#	Article	IF	Citations
19	Constrained synthesis from component libraries. Science of Computer Programming, 2019, 171, 21-41.	1.9	4
20	Stochastic Assume-Guarantee Contracts for Cyber-Physical System Design. Transactions on Embedded Computing Systems, 2019, 18, 1-26.	2.9	19
21	Coherent Extension, Composition, and Merging Operators in Contract Models for System Design. Transactions on Embedded Computing Systems, 2019, 18, 1-23.	2.9	8
22	Contracts for System Design. Foundations and Trends in Electronic Design Automation, 2018, 12, 124-400.	1.0	116
23	SMT-Based Observer Design for Cyber-Physical Systems under Sensor Attacks. ACM Transactions on Cyber-Physical Systems, 2018, 2, 1-27.	2.5	50
24	Specification decomposition for synthesis from libraries of LTL Assume/Guarantee contracts. , 2018, , .		3
25	A Model-based approach for the synthesis of software to firmware adapters for use with automatically generated components. Software and Systems Modeling, 2018, 17, 11-33.	2.7	4
26	Quotient for Assume-Guarantee Contracts. , 2018, , .		7
27	Generating Dominant Strategies for Continuous Two-Player Zero-Sum Games. IFAC-PapersOnLine, 2018, 51, 7-12.	0.9	3
28	Design Automation for Cyber-Physical Systems [Scanning the Issue]. Proceedings of the IEEE, 2018, 106, 1479-1483.	21.3	10
29	Optimized Selection of Wireless Network Topologies and Components via Efficient Pruning of Feasible Paths. , 2018, , .		2
30	Codesign Methodologies and Tools for Cyber–Physical Systems. Proceedings of the IEEE, 2018, 106, 1484-1500.	21.3	25
31	Design Automation for Smart Building Systems. Proceedings of the IEEE, 2018, 106, 1680-1699.	21.3	52
32	CHASE: Contract-based requirement engineering for cyber-physical system design. , 2018, , .		20
33	Optimized selection of wireless network topologies and components via efficient pruning of feasible paths. , 2018, , .		1
34	A LiDAR Point Cloud Generator. , 2018, , .		119
35	SMC: Satisfiability Modulo Convex Programming. Proceedings of the IEEE, 2018, 106, 1655-1679.	21.3	35
36	Hierarchical System Design with Vertical Contracts. Lecture Notes in Computer Science, 2018, , 360-382.	1.3	5

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37	Secure State Estimation for Cyber-Physical Systems Under Sensor Attacks: A Satisfiability Modulo Theory Approach. IEEE Transactions on Automatic Control, 2017, 62, 4917-4932.	5.7	219
38	Optimized Design of a Human Intranet Network. , 2017, , .		8
39	Security-Aware Design for Cyber-Physical Systems. , 2017, , .		5
40	Guest Editorial Special Issue on Circuits and Systems for the Internet of Thingsâ€"From Sensing to Sensemaking. IEEE Transactions on Circuits and Systems I: Regular Papers, 2017, 64, 2221-2225.	5.4	10
41	ArchEx. , 2017, , .		11
42	Stochastic contracts for cyber-physical system design under probabilistic requirements. , 2017, , .		17
43	Online computation of polytopic flexibility models for demand shifting applications. , 2017, , .		1
44	Linear temporal logic motion planning for teams of underactuated robots using satisfiability modulo convex programming. , 2017, , .		33
45	Intravehicular Energy-Harvesting Wireless Networks: Reducing Costs and Emissions. IEEE Vehicular Technology Magazine, 2017, 12, 77-85.	3.4	8
46	Turning <i>coders</i> into <i>makers</i>. , 2017, , .		20
47	Characterization, Analysis, and Recommendations for Exploiting the Opportunities of Cyber-Physical Systems. , 2017, , 3-14.		21
48	Constrained Synthesis from Component Libraries. Lecture Notes in Computer Science, 2017, , 92-110.	1.3	2
49	SMC. , 2017, , .		29
50	Scalable lazy SMT-based motion planning. , 2016, , .		23
51	Smart Connected Buildings Design Automation: Foundations and Trends. Foundations and Trends in Electronic Design Automation, 2016, 10, 1-143.	1.0	16
52	Designing a Cyberâ€"Physical System for Fall Prevention by Corticoâ€"Muscular Coupling Detection. IEEE Design and Test, 2016, 33, 66-76.	1.2	32
53	Diagnosis and Repair for Synthesis from Signal Temporal Logic Specifications. , 2016, , .		31
54	Design Automation of Electronic Systems: Past Accomplishments and Challenges Ahead [Scanning the Issue]. Proceedings of the IEEE, 2015, 103, 1952-1957.	21.3	7

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55	Optimized Selection of Reliable and Cost-Effective Cyber-Physical System Architectures. , 2015, , .		16
56	Efficient distribution of Triggered Synchronous Block Diagrams on asynchronous platforms. , 2015, , .		1
57	Methodology and Tools for Next Generation Cyber–Physical Systems: The iCyPhy Approach. Incose International Symposium, 2015, 25, 235-249.	0.6	11
58	Sound and complete state estimation for linear dynamical systems under sensor attacks using Satisfiability Modulo Theory solving. , 2015, , .		26
59	Secure state reconstruction in differentially flat systems under sensor attacks using satisfiability modulo theory solving. , 2015, , .		18
60	A mixed discrete-continuous optimization scheme for Cyber-Physical System architecture exploration. , 2015, , .		18
61	Security-Aware Design Methodology and Optimization for Automotive Systems. ACM Transactions on Design Automation of Electronic Systems, 2015, 21, 1-26.	2.6	37
62	A Contract-based Framework for Integrated Demand Response Management in Smart Grids. , 2015, , .		7
63	Security-Aware Modeling and Efficient Mapping for CAN-Based Real-Time Distributed Automotive Systems. IEEE Embedded Systems Letters, 2015, 7, 11-14.	1.9	38
64	Routing-Aware Design of Indoor Wireless Sensor Networks Using an Interactive Tool. IEEE Systems Journal, 2015, 9, 714-727.	4.6	20
65	A Platform-Based Design Methodology With Contracts and Related Tools for the Design of Cyber-Physical Systems. Proceedings of the IEEE, 2015, 103, 2104-2132.	21.3	114
66	Stochastic model predictive control design for load management system of aircraft electrical power distribution. , 2015, , .		7
67	Efficient Wire Routing and Wire Sizing for Weight Minimization of Automotive Systems. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2015, 34, 1730-1741.	2.7	13
68	Design optimization of the control system for the powertrain of an electric vehicle: A cyber-physical system approach. , 2015, , .		7
69	Smart Buildings in the Smart Grid: Contract-Based Design of an Integrated Energy Management System. Power Systems, 2015, , 103-132.	0.5	6
70	Library-based scalable refinement checking for contract-based design. , 2014, , .		11
71	Security-aware mapping for TDMA-based real-time distributed systems. , 2014, , .		24
72	A Model-Based Approach for Bridging Virtual and Physical Sensor Nodes in a Hybrid Simulation Framework. Sensors, 2014, 14, 11070-11096.	3.8	9

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73	Distributed control of a swarm of buildings connected to a smart grid. , 2014, , .		7
74	Metronomy. , 2014, , .		23
75	Looking into the Crystal Ball: From Transistors to the Smart Earth. IEEE Design and Test, 2014, 31, 47-55.	1.2	0
76	Model predictive control with signal temporal logic specifications. , 2014, , .		251
77	Are interface theories equivalent to contract theories?. , 2014, , .		9
78	Model Predictive Control of regulation services from commercial buildings to the smart grid. , 2014, , .		32
79	Contract-based design of control protocols for safety-critical cyber-physical systems. , 2014, , .		5
80	An Efficient Wire Routing and Wire Sizing Algorithm for Weight Minimization of Automotive Systems. , 2014, , .		8
81	Optimized implementation of synchronous models on industrial LTTA systems. Journal of Systems Architecture, 2014, 60, 315-328.	4.3	4
82	A Contract-Based Methodology for Aircraft Electric Power System Design. IEEE Access, 2014, 2, 1-25.	4.2	147
83	Model predictive control approach to online computation of demand-side flexibility of commercial buildings HVAC systems for Supply Following. , 2014, , .		59
84	The Swarm at the Edge of the Cloud. IEEE Design and Test, 2014, 31, 8-20.	1.2	83
85	Contract-based design of control protocols for safety-critical cyber-physical systems. , 2014, , .		5
86	Communication storage optimization for static dataflow with access patterns under periodic scheduling and throughput constraint. Computers and Electrical Engineering, 2014, 40, 1858-1873.	4.8	8
87	Industrial Cyber-Physical Systems â€“ iCyPhy. , 2014, , 21-37.		23
88	An MDA Approach for the Generation of Communication Adapters Integrating SW and FW Components from Simulink. Lecture Notes in Computer Science, 2014, , 353-369.	1.3	6
89	Letâ€™s Get Physical: Computer Science Meets Systems. Lecture Notes in Computer Science, 2014, , 193-208.	1.3	7
90	Library-based scalable refinement checking for contract-based design. , 2014, , .		2

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91	Introduction: Modeling, Analysis and Synthesis of Embedded Software and Systems. Embedded Systems, 2014, , 1-16.	0.6	1
92	Modeling and estimating yield and efficiency of photovoltaic solar parks. , 2013, , .		7
93	Security-aware mapping for CAN-based real-time distributed automotive systems. , 2013, , .		48
94	A tool integration approach for architectural exploration of aircraft electric power systems. , 2013, , .		7
95	The design of dynamical observers for hybrid systems: Theory and application to an automotive control problem. Automatica, 2013, 49, 915-925.	5.0	49
96	Duty-cycle optimization for IEEE 802.15.4 wireless sensor networks. ACM Transactions on Sensor Networks, 2013, 10, 1-32.	3.6	35
97	Online Simultaneous State Estimation and Parameter Adaptation for Building Predictive Control. , 2013, , .		25
98	Co-design of control algorithm and embedded platform for building HVAC systems. , 2013, , .		27
99	<scp>metro</scp> II. Transactions on Embedded Computing Systems, 2013, 12, 1-31.	2.9	54
100	Optimal load management system for Aircraft Electric Power distribution. , 2013, , .		27
101	Timing analysis of process graphs with finite communication buffers. , 2013, , .		1
102	Guest Editorial: Special Issue on System Level Design of Automotive Electronics/Software. IEEE Embedded Systems Letters, 2013, 5, 29-29.	1.9	0
103	Polynomial-Time Verification of PCTL Properties of MDPs with Convex Uncertainties. Lecture Notes in Computer Science, 2013, , 527-542.	1.3	48
104	A routing-algorithm-aware design tool for indoor wireless sensor networks. , 2012, , .		2
105	Optimal Control of Building HVAC Systems in the Presence of Imperfect Predictions. , 2012, , .		7
106	A 6-Bit 50-MS/s Threshold Configuring SAR ADC in 90-nm Digital CMOS. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 80-92.	5.4	47
107	Methodology for the Design of Analog Integrated Interfaces Using Contracts. IEEE Sensors Journal, 2012, 12, 3329-3345.	4.7	23
108	Total and Peak Energy Consumption Minimization of Building HVAC Systems Using Model Predictive Control. IEEE Design and Test of Computers, 2012, 29, 26-35.	1.0	105

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109	EDA meets biology! The bumpy road ahead [Perscetives]. IEEE Design and Test of Computers, 2012, 29, 49-50.	1.0	0
110	Cyber-Security for the Controller Area Network (CAN) Communication Protocol. , 2012, , .		130
111	Development of Building Automation and Control Systems. IEEE Design and Test of Computers, 2012, 29, 45-55.	1.0	17
112	Taming Dr. Frankenstein: Contract-Based Design for Cyber-Physical Systems*. European Journal of Control, 2012, 18, 217-238.	2.6	246
113	Optimization of task allocation and priority assignment in hard real-time distributed systems. Transactions on Embedded Computing Systems, 2012, 11, 1-30.	2.9	130
114	Methods and Tools for Calculating the Flexibility of Automotive HW/SW Architectures. SAE International Journal of Passenger Cars - Electronic and Electrical Systems, 2012, 5, 17-26.	0.3	2
115	Separate compilation of hierarchical real-time programs into linear-bounded Embedded Machine code. Science of Computer Programming, 2012, 77, 96-112.	1.9	4
116	Modeling Cyber–Physical Systems. Proceedings of the IEEE, 2012, 100, 13-28.	21.3	566
117	An Industrial System Engineering Process Integrating Model Driven Architecture and Model Based Design. Lecture Notes in Computer Science, 2012, , 810-826.	1.3	2
118	Schedule Optimization of Time-Triggered Systems Communicating Over the FlexRay Static Segment. IEEE Transactions on Industrial Informatics, 2011, 7, 1-17.	11.3	98
119	Robustness in analog systems: Design techniques, methodologies and tools. , 2011, , .		14
120	Component-based design for the future. , 2011, , .		20
121	Model-Based Hierarchical Optimal Control Design for HVAC Systems. , 2011, , .		57
122	Are logic synthesis tools robust?. , 2011, , .		5
123	SAT Sweeping with Local Observability Don't-Cares. , 2011, , 129-148.		1
124	A Platform-Based Methodology for System-Level Mixed-Signal Design. Eurasip Journal on Embedded Systems, 2010, 2010, 1-14.	1.2	3
125	Education panel. , 2010, , .		0
126	Moving From Federated to Integrated Architectures in Automotive: The Role of Standards, Methods and Tools. Proceedings of the IEEE, 2010, 98, 603-620.	21.3	141

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127	A 2.2mW CMOS LNA for 6&#x2013;8.5GHz UWB receivers. , 2010, , .		5
128	Corsi e Ricorsi: The EDA Story. IEEE Solid-State Circuits Magazine, 2010, 2, 6-25.	0.4	9
129	Synthesis of Multitask Implementations of Simulink Models With Minimum Delays. IEEE Transactions on Industrial Informatics, 2010, 6, 637-651.	11.3	55
130	HILAC: A framework for hardware in the loop simulation and multi-platform automatic code generation of WSN applications. , 2010, , .		18
131	A Design Flow for Building Automation and Control Systems. , 2010, , .		12
132	Guest Editorial Special Issue on Automotive Embedded Systems. IEEE Embedded Systems Letters, 2010, 2, 21-22.	1.9	1
133	Using Statistical Methods to Compute the Probability Distribution of Message Response Time in Controller Area Network. IEEE Transactions on Industrial Informatics, 2010, 6, 678-691.	11.3	45
134	Optimizing the Software Architecture for Extensibility in Hard Real-Time Distributed Systems. IEEE Transactions on Industrial Informatics, 2010, 6, 621-636.	11.3	55
135	Optimal Synthesis of Communication Procedures in Real-Time Synchronous Reactive Models. IEEE Transactions on Industrial Informatics, 2010, 6, 729-743.	11.3	6
136	Fault Tree Analysis for the Design Exploration of Fault Tolerant Automotive Architectures. , 2009, , .		5
137	Iterative Node Deployment in an Unknown Environment. , 2009, , .		0
138	Improving the Size of Communication Buffers in Synchronous Models With Time Constraints. IEEE Transactions on Industrial Informatics, 2009, 5, 229-240.	11.3	16
139	SERAN: a Protocol for Clustered WSNs in Industrial Control and Automation. , 2009, , .		0
140	Scheduling the FlexRay bus using optimization techniques. , 2009, , .		32
141	Contract-based system-level composition of analog circuits. , 2009, , .		13
142	Runtime deadlock analysis for system level design. Design Automation for Embedded Systems, 2009, 13, 287-310.	1.0	6
143	Optimizing Extensibility in Hard Real-Time Distributed Systems. , 2009, , .		32
144	Minimum Energy coding in CDMA Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2009, 8, 985-994.	9.2	17

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145	Medium Access Control Analytical Modeling and Optimization in Unslotted IEEE 802.15.4 Wireless Sensor Networks. , 2009, , .		11
146	Metamodeling: An Emerging Representation Paradigm for System-Level Design. IEEE Design and Test of Computers, 2009, 26, 54-69.	1.0	32
147	Automatic Code Generation for Synchronous Reactive Communication. , 2009, , .		5
148	Statistical analysis of Controller Area Network message response times. , 2009, , .		9
149	UMTS MPSoC design evaluation using a system level design framework. , 2009, , .		4
150	Stochastic Analysis of CAN-Based Real-Time Automotive Systems. IEEE Transactions on Industrial Informatics, 2009, 5, 388-401.	11.3	64
151	A Methodology for Constraint-Driven Synthesis of On-Chip Communications. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2009, 28, 364-377.	2.7	17
152	The Tire as an Intelligent Sensor. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2009, 28, 941-955.	2.7	78
153	Metamodels in Europe: Languages, Tools, and Applications. IEEE Design and Test of Computers, 2009, 26, 38-53.	1.0	25
154	Platform-Based Design and Frameworks. Computational Analysis, Synthesis, and Design of Dynamic Models Series, 2009, , 259-322.	0.2	8
155	Compositionally Progressive Solutions of Synchronous FSM Equations. Discrete Event Dynamic Systems: Theory and Applications, 2008, 18, 51-89.	1.5	11
156	A distributed minimum variance estimator for sensor networks. IEEE Journal on Selected Areas in Communications, 2008, 26, 609-621.	14.0	89
157	Is a Unified Methodology for System-Level Design Possible?. IEEE Design and Test of Computers, 2008, 25, 346-357.	1.0	9
158	COSI: A Framework for the Design of Interconnection Networks. IEEE Design and Test of Computers, 2008, 25, 402-415.	1.0	17
159	The State of ESL Design [Roundtable]. IEEE Design and Test of Computers, 2008, 25, 510-519.	1.0	2
160	Fault-Tolerant Distributed Deployment of Embedded Control Software. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2008, 27, 906-919.	2.7	27
161	An FSM Reengineering Approach to Sequential Circuit Synthesis by State Splitting. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2008, 27, 1159-1164.	2.7	36
162	Design and Optimization of an MB-OFDM Ultra-Wideband Receiver Front-End. , 2008, , .		3

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163	Outage-Based Rate Maximization in CDMA Wireless Networks. , 2008, , .		1
164	Breath: A Self-Adapting Protocol for Wireless Sensor Networks in Control and Automation. , 2008, , .		17
165	Source-level timing annotation and simulation for a heterogeneous multiprocessor. , 2008, , .		32
166	Composing heterogeneous reactive systems. Transactions on Embedded Computing Systems, 2008, 7, 1-36.	2.9	27
167	Logical reliability of interacting real-time tasks. , 2008, , .		9
168	Synthesis of embedded networks for building automation and control. , 2008, , .		27
169	Logical Reliability of Interacting Real-Time Tasks. , 2008, , .		2
170	Analysis of Interference Effects in MB-OFDM UWB Systems. , 2008, , .		7
171	Duty-Cycle Optimization in Unslotted 802.15.4 Wireless Sensor Networks. , 2008, , .		15
172	Methods, Tools and Standards for the Analysis, Evaluation and Design of Modern Automotive Architectures. , 2008, , .		4
173	Physical Architectures of Automotive Systems. , 2008, , .		2
174	Source-Level Timing Annotation and Simulation for a Heterogeneous Multiprocessor. , 2008, , .		17
175	Software Components for Reliable Automotive Systems. , 2008, , .		3
176	Approximating Behaviors in Embedded System Design. Lecture Notes in Computer Science, 2008, , 721-742.	1.3	0
177	A communication synthesis infrastructure for heterogeneous networked control systems and its application to building automation and control. , 2007, , .		8
178	A new algorithm for the largest compositionally progressive solution of synchronous language equations. , 2007, , .		0
179	Techniques for maintaining connectivity in wireless ad-hoc networks under energy constraints. Transactions on Embedded Computing Systems, 2007, 6, 16.	2.9	4
180	Loosely time-triggered architectures based on communication-by-sampling. , 2007, , .		23

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181	Period optimization for hard real-time distributed automotive systems. Proceedings - Design Automation Conference, 2007, , .	0.0	67
182	Automotive networks. , 2007, , .		0
183	Fresh air. , 2007, , .		0
184	E2RINA: an Energy Efficient and Reliable In-Network Aggregation for Clustered Wireless Sensor Networks. , 2007, , .		15
185	Semantics-Preserving Design of Embedded Control Software from Synchronous Models. IEEE Transactions on Software Engineering, 2007, 33, 497-509.	5.6	5
186	Remembering Richard [Obituary, Richard A.Newton]. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2007, 26, 1357-1366.	2.7	0
187	Modelling and simulation techniques for highly integrated, low-power wireless sensor networks. IET Computers and Digital Techniques, 2007, 1, 528.	1.2	4
188	Quo Vadis, SLD? Reasoning About the Trends and Challenges of System Level Design. Proceedings of the IEEE, 2007, 95, 467-506.	21.3	254
189	Uniprocessor scheduling under precedence constraints for embedded systems design. Transactions on Embedded Computing Systems, 2007, 7, 1-30.	2.9	26
190	System Level Design for Clustered Wireless Sensor Networks. IEEE Transactions on Industrial Informatics, 2007, 3, 202-214.	11.3	52
191	Idle speed control of port-injection enginesvia the polynomial equation approach. International Journal of Robust and Nonlinear Control, 2007, 17, 720-731.	3.7	1
192	Embedded System Design for Automotive Applications. Computer, 2007, 40, 42-51.	1.1	149
193	Refinement preserving approximations for the design and verification of heterogeneous systems. Formal Methods in System Design, 2007, 31, 1-33.	0.8	9
194	Period Optimization for Hard Real-time Distributed Automotive Systems. Proceedings - Design Automation Conference, 2007, , .	0.0	22
195	FSM Encoding for BDD Representations. International Journal of Applied Mathematics and Computer Science, 2007, 17, 113-124.	1.5	6
196	Complexity of two-level logic minimization. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2006, 25, 1230-1246.	2.7	79
197	Embedding Mixed-Signal Design in Systems-on-Chip. Proceedings of the IEEE, 2006, 94, 1070-1088.	21.3	21
198	A Platform-Based Taxonomy for ESL Design. IEEE Design and Test of Computers, 2006, 23, 359-374.	1.0	115

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199	Yield Prediction for 3D Capacitive Interconnections. IEEE/ACM International Conference on Computer-Aided Design, Digest of Technical Papers, 2006, , .	0.0	4
200	Languages and Tools for Hybrid Systems Design. Foundations and Trends in Electronic Design Automation, 2006, 1, 1-193.	1.0	92
201	A Framework for Modeling the Distributed Deployment of Synchronous Designs. Formal Methods in System Design, 2006, 28, 93-110.	0.8	8
202	Platform based design for wireless sensor networks. Mobile Networks and Applications, 2006, 11, 469-485.	3.3	21
203	SAT sweeping with local observability don't-cares. , 2006, , .		45
204	System level design paradigms. ACM Transactions on Design Automation of Electronic Systems, 2006, 11, 537-563.	2.6	48
205	A hierarchical coordination language for interacting real-time tasks. , 2006, , .		42
206	Communication by sampling in time-sensitive distributed systems. , 2006, , .		7
207	Hybrid systems in automotive electronics design. International Journal of Control, 2006, 79, 375-394.	1.9	9
208	Constraints Assisted Modeling and Validation in Metropolis Framework. , 2006, , .		1
209	Interchange Format for Hybrid Systems: Abstract Semantics. Lecture Notes in Computer Science, 2006, , 491-506.	1.3	19
210	Idle Speed Control â€" A Benchmark for Hybrid System Research11This work is supported by the Network of Excellence HYCON, E.C. IST-511368.. , 2006, , 259-264.		2
211	Interchange Formats for Hybrid Systems: Review and Proposal. Lecture Notes in Computer Science, 2005, , 526-541.	1.3	17
212	An embedded system for an eye-detection sensor. Computer Vision and Image Understanding, 2005, 98, 104-123.	4.7	50
213	Rialto. , 2005, , .		16
214	A structural approach to quasi-static schedulability analysis of communicating concurrent programs. , 2005, , .		1
215	A formal approach to fault tree synthesis for the analysis of distributed fault tolerant systems. , 2005, , .		12
216	Grand challenges in embedded systems. , 2005, , .		0

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217	FSM re-engineering and its application in low power state encoding. , 2005, , .		17
218	Simulation based deadlock analysis for system level designs. , 2005, , .		8
219	Tag machines. , 2005, , .		22
220	Efficient Solution of Optimal Control Problems Using Hybrid Systems. SIAM Journal on Control and Optimization, 2005, 43, 1923-1952.	2.1	14
221	Extensible and scalable time triggered scheduling. , 2005, , .		26
222	Maximizing the stability radius of a set of systems under real-time scheduling constraints. IEEE Transactions on Automatic Control, 2005, 50, 1790-1795.	5.7	30
223	The importance of innovation in the economy of advanced countries. IEEE Design and Test of Computers, 2005, 22, 14-16.	1.0	0
224	JPEG encoding on the Intel MXP5800: a platform-based design case study. , 2005, , .		7
225	Metropolis. , 2005, , 465-496.		0
226	The best of both worlds. , 2004, , .		7
227	Logic synthesis for manufacturability. IEEE Design and Test of Computers, 2004, 21, 192-199.	1.0	23
228	Separation of concerns. , 2004, , .		9
229	Conservative approximations for heterogeneous design. , 2004, , .		1
230	Heterogeneous reactive systems modeling. , 2004, , .		21
231	Benefits and challenges for platform-based design. , 2004, , .		77
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