

Cesare Fantuzzi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6647453/publications.pdf>

Version: 2024-02-01

184
papers

3,087
citations

236925

25
h-index

276875

41
g-index

186
all docs

186
docs citations

186
times ranked

2092
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A User Study for the Evaluation of Adaptive Interaction Systems for Inclusive Industrial Workplaces. IEEE Transactions on Automation Science and Engineering, 2022, 19, 3300-3310. | 5.2 | 4 |
| 2 | The INCLUSIVE System: A General Framework for Adaptive Industrial Automation. IEEE Transactions on Automation Science and Engineering, 2021, 18, 1969-1982. | 5.2 | 13 |
| 3 | A General Methodology for Adapting Industrial HMIs to Human Operators. IEEE Transactions on Automation Science and Engineering, 2021, 18, 164-175. | 5.2 | 14 |
| 4 | Knowledge-Based Automation for Smart Manufacturing Systems. IEEE Transactions on Automation Science and Engineering, 2021, 18, 2-4. | 5.2 | 0 |
| 5 | Smart Node Networks Orchestration: A New E2E Approach for Analysis and Design for Agile 4.0 Implementation. Sensors, 2021, 21, 1624. | 3.8 | 4 |
| 6 | Worker satisfaction with adaptive automation and working conditions: a theoretical model and questionnaire as an assessment tool. International Journal of Occupational Safety and Ergonomics, 2021, 27, 1235-1250. | 1.9 | 5 |
| 7 | Toward Future Automatic Warehouses: An Autonomous Depalletizing System Based on Mobile Manipulation and 3D Perception. Applied Sciences (Switzerland), 2021, 11, 5959. | 2.5 | 9 |
| 8 | Hierarchical and Flexible Traffic Management of Multi-AGV Systems Applied to Industrial Environments. , 2021, , . | | 3 |
| 9 | Humans interacting with multi-robot systems: a natural affect-based approach. Autonomous Robots, 2020, 44, 601-616. | 4.8 | 10 |
| 10 | Safety barrier functions and multi-camera tracking for human-robot shared environment. Robotics and Autonomous Systems, 2020, 124, 103388. | 5.1 | 51 |
| 11 | Guest Editorial Special Section on the 2018 Conference on Automation Science and Engineering (CASE). IEEE Transactions on Automation Science and Engineering, 2020, 17, 1182-1183. | 5.2 | 0 |
| 12 | A Control Barrier Function Approach for Maximizing Performance While Fulfilling to ISO/TS 15066 Regulations. IEEE Robotics and Automation Letters, 2020, 5, 5921-5928. | 5.1 | 40 |
| 13 | Optimized power modulation in wave based bilateral teleoperation. IEEE/ASME Transactions on Mechatronics, 2020, , 1-1. | 5.8 | 13 |
| 14 | Smart and Adaptive Interfaces for Inclusive Factory Environments. Springer Reference Technik, 2020, , 1-14. | 0.0 | 0 |
| 15 | A General Approach to Natural Human-Robot Interaction. Springer Proceedings in Advanced Robotics, 2019, , 61-71. | 1.3 | 1 |
| 16 | A Methodology for Comparative Analysis of Collaborative Robots for Industry 4.0. , 2019, , . | | 20 |
| 17 | An Adaptive Virtual Training System Based on Universal Design. IFAC-PapersOnLine, 2019, 51, 335-340. | 0.9 | 15 |
| 18 | Measurement and classification of human characteristics and capabilities during interaction tasks. Paladyn, 2019, 10, 182-192. | 2.7 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | A Passivity-Based Strategy for Manual Corrections in Human-Robot Coaching. Electronics (Switzerland), 2019, 8, 320. | 3.1 | 3 |
| 20 | Augmented reality based approach for on-line quality assessment of polished surfaces. Robotics and Computer-Integrated Manufacturing, 2019, 59, 158-167. | 9.9 | 43 |
| 21 | A variable admittance control strategy for stable physical human-robot interaction. International Journal of Robotics Research, 2019, 38, 747-765. | 8.5 | 100 |
| 22 | Survey on usability assessment for industrial user interfaces. IFAC-PapersOnLine, 2019, 52, 25-30. | 0.9 | 7 |
| 23 | Herausforderungen in der interdisziplinären Entwicklung von Cyber-Physischen Produktionssystemen. Automatisierungstechnik, 2019, 67, 445-454. | 0.8 | 3 |
| 24 | TIREBOT: A collaborative robot for the tire workshop. Robotics and Computer-Integrated Manufacturing, 2019, 57, 129-137. | 9.9 | 17 |
| 25 | Systematic Approach to Develop a Flexible Adaptive Human-Machine Interface in Socio-Technological Systems. Advances in Intelligent Systems and Computing, 2019, , 276-288. | 0.6 | 4 |
| 26 | Teleoperation of a Multi-robot System with Adjustable Dynamic Parameters. Springer Proceedings in Advanced Robotics, 2019, , 153-165. | 1.3 | 0 |
| 27 | Passivity Preserving Force Scaling for Enhanced Teleoperation of Multirobot Systems. IEEE Robotics and Automation Letters, 2018, 3, 1925-1932. | 5.1 | 18 |
| 28 | Simulation and optimization of industrial production lines. Automatisierungstechnik, 2018, 66, 320-330. | 0.8 | 8 |
| 29 | The PAN-Robots Project: Advanced Automated Guided Vehicle Systems for Industrial Logistics. IEEE Robotics and Automation Magazine, 2018, 25, 55-64. | 2.0 | 51 |
| 30 | MATE Robots Simplifying My Work: The Benefits and Socioethical Implications. IEEE Robotics and Automation Magazine, 2018, 25, 37-45. | 2.0 | 21 |
| 31 | Big Data for advanced monitoring system: an approach to manage system complexity. , 2018, , . | | 0 |
| 32 | On the Use of Energy Tanks for Multi-Robot Interconnection. , 2018, , . | | 7 |
| 33 | Shaping the Force Feedback by Dynamic Scaling in the Teleoperation of Multi-Robot Systems. IFAC-PapersOnLine, 2018, 51, 143-148. | 0.9 | 2 |
| 34 | An Industrial Social Network for Sharing Knowledge Among Operators. IFAC-PapersOnLine, 2018, 51, 48-53. | 0.9 | 1 |
| 35 | Survey on Human-Robot Interaction for Robot Programming in Industrial Applications. IFAC-PapersOnLine, 2018, 51, 66-71. | 0.9 | 48 |
| 36 | Methodological Approach for the Evaluation of an Adaptive and Assistive Human-Machine System. , 2018, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | A Framework for Affect-Based Natural Human-Robot Interaction. , 2018, , . | | 21 |
| 38 | Controlling the Interaction of a Multi-Robot System with External Entities. , 2018, , . | | 1 |
| 39 | A Passivity-Based Strategy for Coaching in Human-Robot Interaction. , 2018, , . | | 11 |
| 40 | Relieving operatorsâ€™ workload: Towards affective robotics in industrial scenarios. Mechatronics, 2018, 54, 144-154. | 3.3 | 36 |
| 41 | A Low-Cost Navigation Strategy for Yield Estimation in Vineyards. , 2018, , . | | 23 |
| 42 | An Adaptive Speech Interface for Assistance in Maintenance and Changeover Procedures. Lecture Notes in Computer Science, 2018, , 152-163. | 1.3 | 4 |
| 43 | A Natural Infrastructure-Less Humanâ€“Robot Interaction System. IEEE Robotics and Automation Letters, 2017, 2, 1640-1647. | 5.1 | 27 |
| 44 | Cooperative cloud robotics architecture for the coordination of multi-AGV systems in industrial warehouses. Mechatronics, 2017, 45, 1-13. | 3.3 | 82 |
| 45 | Discrete time model of a two-station one-buffer serial system with inventory level-dependent operation. Computers and Industrial Engineering, 2017, 113, 46-63. | 6.3 | 6 |
| 46 | Multi-robot systems implementing complex behaviors under time-varying topologies. European Journal of Control, 2017, 38, 73-87. | 2.6 | 3 |
| 47 | Safe navigation and experimental evaluation of a novel tire workshop assistant robot. , 2017, , . | | 1 |
| 48 | Walk-through Programming for Industrial Applications. Procedia Manufacturing, 2017, 11, 31-38. | 1.9 | 26 |
| 49 | Collision avoidance for multiple Lagrangian dynamical systems with gyroscopic forces. International Journal of Advanced Robotic Systems, 2017, 14, 172988141668710. | 2.1 | 7 |
| 50 | Coordinated Dynamic Behaviors for Multirobot Systems With Collision Avoidance. IEEE Transactions on Cybernetics, 2017, 47, 4062-4073. | 9.5 | 10 |
| 51 | Optimized simultaneous conflict-free task assignment and path planning for multi-AGV systems. , 2017, , . | | 12 |
| 52 | Methodological approach for the design of a complex inclusive human-machine system. , 2017, , . | | 7 |
| 53 | Simulation and optimisation of production lines in the framework of the IMPROVE project. , 2017, , . | | 2 |
| 54 | Configuring the deployment into software-based controllers through hierarchical simulations. IFAC-PapersOnLine, 2017, 50, 4330-4335. | 0.9 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Interacting With a Mobile Robot with a Natural Infrastructure-Less Interface. IFAC-PapersOnLine, 2017, 50, 12753-12758. | 0.9 | 14 |
| 56 | Natural interaction based on affective robotics for multi-robot systems. , 2017, , . | | 7 |
| 57 | Variable admittance control preventing undesired oscillating behaviors in physical human-robot interaction. , 2017, , . | | 26 |
| 58 | Admittance control parameter adaptation for physical human-robot interaction. , 2017, , . | | 63 |
| 59 | Achieving the desired dynamic behavior in multi-robot systems interacting with the environment. , 2017, , . | | 9 |
| 60 | Towards modern inclusive factories: A methodology for the development of smart adaptive human-machine interfaces. , 2017, , . | | 39 |
| 61 | Optimizing the use of power in wave based bilateral teleoperation. , 2016, , . | | 7 |
| 62 | Hierarchical coordination strategy for multi-AGV systems based on dynamic geodesic environment partitioning. , 2016, , . | | 5 |
| 63 | MyAID: a Troubleshooting Application for Supporting Human Operators in Industrial Environment. IFAC-PapersOnLine, 2016, 49, 391-396. | 0.9 | 7 |
| 64 | Tool compensation in walk-through programming for admittance-controlled robots. , 2016, , . | | 8 |
| 65 | TIREBOT: A novel tire workshop assistant robot. , 2016, , . | | 11 |
| 66 | Design of a packaging machine and virtual commissioning via modular hardware-in-the-loop simulations. , 2016, , . | | 1 |
| 67 | Smartwatch-Enhanced Interaction with an Advanced Troubleshooting System for Industrial Machines. IFAC-PapersOnLine, 2016, 49, 277-282. | 0.9 | 19 |
| 68 | Design of cyber-physical systems: Definition and metamodel for reusable resources. , 2016, , . | | 5 |
| 69 | Coordinated motion for multi-robot systems under time varying communication topologies. , 2016, , . | | 2 |
| 70 | Catching the wave: A transparency oriented wave based teleoperation architecture. , 2016, , . | | 8 |
| 71 | Design of mechatronic systems through aspect and object-oriented modeling. Automatisierungstechnik, 2016, 64, 244-252. | 0.8 | 4 |
| 72 | Multi-AGV Systems in Shared Industrial Environments: Advanced Sensing and Control Techniques for Enhanced Safety and Improved Efficiency. , 2016, , 57-81. | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 73 | Advanced sensing and control techniques for multi AGV systems in shared industrial environments. , 2015, , . | | 9 |
| 74 | Decentralized Control of Cooperative Robotic Systems for Arbitrary Setpoint Tracking while Avoiding Collisions. IFAC-PapersOnLine, 2015, 48, 57-62. | 0.9 | 6 |
| 75 | Overcoming real time bond in high level simulation environments. , 2015, , . | | 1 |
| 76 | Verification and validation based on the generation of testing sequences from timing diagram specifications in industrial automation. , 2015, , . | | 4 |
| 77 | Structured Product Development Process Implementation for a Packaging Company. IFAC-PapersOnLine, 2015, 48, 190-196. | 0.9 | 1 |
| 78 | Mission Assignment for Multi-Vehicle Systems in Industrial Environments**This paper is written within PAN-Robots project. The research leading to these results has received funding from the European Union Seventh Framework Programme (FP7/2007-2013) under grant agreement n. 314193.. IFAC-PapersOnLine, 2015, 48, 268-273. | 0.9 | 13 |
| 79 | Towards an abstraction layer for PLC programming using object-oriented features of IEC61131-3 applied to motion control. , 2015, , . | | 3 |
| 80 | Coordinated dynamic behaviors in multi-robot systems with time-varying topologies. , 2015, , . | | 3 |
| 81 | Improving AGV systems: Integration of advanced sensing and control technologies. , 2015, , . | | 6 |
| 82 | Interacting with a multi AGV system. , 2015, , . | | 7 |
| 83 | Conducting multi-robot systems: Gestures for the passive teleoperation of multiple slaves. , 2015, , . | | 6 |
| 84 | Eigenvalue placement for asymptotic stability in piecewise linear switched systems. , 2015, , . | | 4 |
| 85 | Generating automatically the documentation from PLC code by D4T3 to improve the usability and life cycle management of software in automation. , 2015, , . | | 2 |
| 86 | Modelling and Simulation for the Integrated Design of Mechatronic Systems. IFAC-PapersOnLine, 2015, 48, 75-80. | 0.9 | 7 |
| 87 | A PackML-based Design Pattern for Modular PLC Code. IFAC-PapersOnLine, 2015, 48, 178-183. | 0.9 | 14 |
| 88 | Cloud robotics paradigm for enhanced navigation of autonomous vehicles in real world industrial applications. , 2015, , . | | 7 |
| 89 | Edge-weighted consensus-based formation control strategy with collision avoidance. Robotica, 2015, 33, 332-347. | 1.9 | 46 |
| 90 | Implementation of Coordinated Complex Dynamic Behaviors in Multirobot Systems. IEEE Transactions on Robotics, 2015, 31, 1018-1032. | 10.3 | 36 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | A dynamic routing strategy for the traffic control of AGVs in automatic warehouses. , 2015, , . | | 9 |
| 92 | Ensemble Coordination Approach in Multi-AGV Systems Applied to Industrial Warehouses. IEEE Transactions on Automation Science and Engineering, 2015, 12, 922-934. | 5.2 | 97 |
| 93 | The two-machine one-buffer continuous time model with restart policy. Annals of Operations Research, 2015, 231, 33-64. | 4.1 | 5 |
| 94 | The PLC UML State-chart design pattern. , 2014, , . | | 1 |
| 95 | Obstacle avoidance for industrial AGVs. , 2014, , . | | 22 |
| 96 | Hierarchical traffic control for partially decentralized coordination of multi AGV systems in industrial environments. , 2014, , . | | 45 |
| 97 | An automatic approach for the generation of the roadmap for multi-AGV systems in an industrial environment. , 2014, , . | | 23 |
| 98 | Implementation of arbitrary periodic dynamic behaviors in networked systems. , 2014, , . | | 3 |
| 99 | A model-based design methodology for the development of mechatronic systems. Mechatronics, 2014, 24, 833-843. | 3.3 | 78 |
| 100 | Multisensor data fusion for obstacle detection in automated factory logistics. , 2014, , . | | 16 |
| 101 | Cooperative dynamic behaviors in networked systems with decentralized state estimation. , 2014, , . | | 9 |
| 102 | Controllability and Observability Preservation for Networked Systems with Time Varying Topologies. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1837-1842. | 0.4 | 17 |
| 103 | TRAFCON â€“ Traffic Control of AGVs in Automatic Warehouses. Springer Tracts in Advanced Robotics, 2014, , 85-105. | 0.4 | 2 |
| 104 | TRAFCON â€“ Traffic Control of AGVs in Automatic Warehouses. Springer Tracts in Advanced Robotics, 2014, , 85-105. | 0.4 | 1 |
| 105 | Closed-Curve Path Tracking for Decentralized Systems of Multiple Mobile Robots. Journal of Intelligent and Robotic Systems: Theory and Applications, 2013, 71, 109-123. | 3.4 | 18 |
| 106 | Design patterns for model-based automation software design and implementation. Control Engineering Practice, 2013, 21, 1608-1619. | 5.5 | 55 |
| 107 | Towards decentralized coordination of multi robot systems in industrial environments: A hierarchical traffic control strategy. , 2013, , . | | 25 |
| 108 | Tools for the development of a design methodology for mechatronic systems. , 2013, , . | | 5 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Collision avoidance using gyroscopic forces for cooperative Lagrangian dynamical systems. , 2013, , . | | 10 |
| 110 | Hardware in the loop simulation and Machine Modular Development: Concepts and application. , 2013, , . | | 4 |
| 111 | Decentralized global connectivity maintenance for interconnected Lagrangian systems in the presence of data corruption. European Journal of Control, 2013, 19, 461-468. | 2.6 | 7 |
| 112 | Discrete time model for two-machine one-buffer transfer lines with restart policy. Annals of Operations Research, 2013, 209, 41-65. | 4.1 | 12 |
| 113 | A low cost localization algorithm for an autonomous lawnmower. , 2013, , . | | 5 |
| 114 | Decentralized control strategy for the implementation of cooperative dynamic behaviors in networked systems. , 2013, , . | | 14 |
| 115 | Time critical wireless data transmission in autonomous control applications. , 2013, , . | | 0 |
| 116 | A tank-based approach to impedance control with variable stiffness. , 2013, , . | | 132 |
| 117 | Decentralized Global Connectivity Maintenance for Interconnected Lagrangian Systems with Communication Delays. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 78-83. | 0.4 | 5 |
| 118 | An Inertial/RFID Based Localization Method for Autonomous Lawnmowers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 145-150. | 0.4 | 5 |
| 119 | Experimental comparison of 3D vision sensors for mobile robot localization for industrial application: Stereo-camera and RGB-D sensor. , 2012, , . | | 11 |
| 120 | Model-driven approach to design ICT infrastructure for precision farming. , 2012, , . | | 2 |
| 121 | Hardware in the loop simulation for distributed automation systems. , 2012, , . | | 3 |
| 122 | An algorithm to diagnose ball bearing faults in servomotors running arbitrary motion profiles. Mechanical Systems and Signal Processing, 2012, 27, 667-682. | 8.0 | 29 |
| 123 | AGV global localization using indistinguishable artificial landmarks. , 2011, , . | | 61 |
| 124 | An efficient control strategy for the traffic coordination of AGVs. , 2011, , . | | 13 |
| 125 | A Design Pattern for translating UML software models into IEC 61131-3 Programming Languages. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 9158-9163. | 0.4 | 13 |
| 126 | A Graph-Based Collision-Free Distributed Formation Control Strategy. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 6011-6016. | 0.4 | 19 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 127 | Coordination of industrial AGVs. International Journal of Vehicle Autonomous Systems, 2011, 9, 5. | 0.2 | 32 |
| 128 | A SysML-Based Methodology for Manufacturing Machinery Modeling and Design. IEEE/ASME Transactions on Mechatronics, 2011, 16, 1049-1062. | 5.8 | 97 |
| 129 | Arbitrarily shaped formations of mobile robots: artificial potential fields and coordinate transformation. Autonomous Robots, 2011, 30, 385-397. | 4.8 | 81 |
| 130 | Time-complemented event-driven control framework for distributed motion control systems based on IEC 61499 and IEEE 1588. , 2011, , . | | 4 |
| 131 | An efficient control strategy for the traffic coordination of AGVs. , 2011, , . | | 2 |
| 132 | Coordination of Multiple Robots with Assigned Paths. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 312-317. | 0.4 | 5 |
| 133 | Tracking of closed-curve trajectories for multi-robot systems. , 2010, , . | | 6 |
| 134 | A nonlinear proportional controller for motion control application. , 2010, , . | | 0 |
| 135 | An engineering process for the mechatronic development of industrial automation systems. , 2010, , . | | 1 |
| 136 | Automatic Experiments Design for Discrete Event System. , 2010, , . | | 0 |
| 137 | Potential based control strategy for arbitrary shape formations of mobile robots. , 2009, , . | | 12 |
| 138 | A Design Pattern for Model Based Software Development for Automatic Machinery. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1429-1434. | 0.4 | 3 |
| 139 | A Coordination Technique for Automatic Guided Vehicles in an Industrial Environment. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 359-364. | 0.4 | 4 |
| 140 | Formation Control over Delayed Communication Network. Understanding Complex Systems, 2009, , 59-74. | 0.6 | 3 |
| 141 | Variable delay in scaled port-Hamiltonian telemanipulation. Mechatronics, 2008, 18, 357-363. | 3.3 | 8 |
| 142 | Transparency in Port-Hamiltonian-Based Telemanipulation. IEEE Transactions on Robotics, 2008, 24, 903-910. | 10.3 | 15 |
| 143 | Authors' Reply to "Comments on Object-Oriented Modeling of Complex Mechatronic Components for the Manufacturing Industry": IEEE/ASME Transactions on Mechatronics, 2008, 13, 487-489. | 5.8 | 0 |
| 144 | Formation control over delayed communication networks. , 2008, , . | | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | An analytical model for automated packaging lines design. , 2008, , . | | 0 |
| 146 | Coordination of multiple AGVs in an industrial application. , 2008, , . | | 30 |
| 147 | A simulation based approach for supporting Automated Guided Vehicles (AGVs) systems design. , 2008, , . | | 3 |
| 148 | Comparison Between Time-Frequency Techniques to Predict Ball Bearing Faults in Drives Executing Arbitrary Motion Profiles. , 2008, , . | | 3 |
| 149 | A Study of Fault Diagnosis and Recovery Techniques for Manufacturing Systems. , 2007, , 1372-1377. | | 0 |
| 150 | Energy shaping over networks for mechanical systems. , 2007, , . | | 5 |
| 151 | Complex Packaging Line Modelling and Simulation. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , . | 0.0 | 1 |
| 152 | Object-Oriented Modeling of Complex Mechatronic Components for the Manufacturing Industry. IEEE/ASME Transactions on Mechatronics, 2007, 12, 696-702. | 5.8 | 25 |
| 153 | On the Use of UML for Modeling Mechatronic Systems. IEEE Transactions on Automation Science and Engineering, 2007, 4, 105-113. | 5.2 | 61 |
| 154 | PWA Dynamic Identification for Nonlinear Model Fault Detection. , 2007, , 1121-1126. | | 0 |
| 155 | Kinematic Compensation in Port-Hamiltonian Telemanipulation. , 2007, , 99-110. | | 0 |
| 156 | Flexray and ISOBUS Integration for Off-Road Vehicles: New Standards Together for Safety and Effective Applications. , 2006, , . | | 1 |
| 157 | Behavioural inheritance in object-oriented models for mechatronic systems. International Journal of Manufacturing Research, 2006, 1, 421. | 0.2 | 9 |
| 158 | Dynamic system identification and model-based fault diagnosis of an industrial gas turbine prototype. Mechatronics, 2006, 16, 341-363. | 3.3 | 57 |
| 159 | An object-oriented approach to manufacturing systems modeling. , 2006, , . | | 4 |
| 160 | Intrinsically Passive Force Scaling in Haptic Interfaces. , 2006, , . | | 4 |
| 161 | Position Drift Compensation in Port-Hamiltonian Based Telemanipulation. , 2006, , . | | 51 |
| 162 | A Distributed Embedded Control System for Agricultural Machines. , 2006, , . | | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 163 | Design by Extension and Inheritance of Behavior in Dynamical Systems. , 2006, , . | | 0 |
| 164 | Towards Object-Oriented Modeling of Complex Mechatronic Systems for the Manufacturing Industry. , 2006, , . | | 1 |
| 165 | Transparency in port-Hamiltonian based telemanipulation. , 2005, , . | | 5 |
| 166 | Power scaling in port-Hamiltonian based telemanipulation. , 2005, , . | | 3 |
| 167 | Sampled data systems passivity and discrete port-Hamiltonian systems. , 2005, 21, 574-587. | | 155 |
| 168 | A practical approach to object-oriented modeling of logic control systems for industrial applications. , 2004, , . | | 3 |
| 169 | Identification of piecewise affine models in noisy environment. International Journal of Control, 2002, 75, 1472-1485. | 1.9 | 42 |
| 170 | Tuning of myoelectric prostheses using fuzzy logic. Artificial Intelligence in Medicine, 2001, 21, 221-225. | 6.5 | 5 |
| 171 | Fault diagnosis in power plant using neural networks. Information Sciences, 2000, 127, 125-136. | 6.9 | 74 |
| 172 | High-speed DSP-based implementation of piecewise-affine and piecewise-quadratic fuzzy systems. Signal Processing, 2000, 80, 951-963. | 3.7 | 45 |
| 173 | Diagnosis techniques for sensor faults of industrial processes. IEEE Transactions on Control Systems Technology, 2000, 8, 848-855. | 5.2 | 88 |
| 174 | Parameter identification for piecewise-affine fuzzy models in noisy environment. International Journal of Approximate Reasoning, 1999, 22, 149-167. | 3.3 | 46 |
| 175 | Quantized norms and generalized relational composition on dense universes. International Journal of Approximate Reasoning, 1998, 19, 299-314. | 3.3 | 1 |
| 176 | Multiple-Layer Variable Structure Controller with Parameter Adaptation. European Journal of Control, 1998, 4, 249-259. | 2.6 | 0 |
| 177 | Rule Reduction Algorithm for SISO Takagi-Sugeno Models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 385-389. | 0.4 | 0 |
| 178 | Efficient Least Squares Identification with SISO Takagi-Sugeno Models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 539-543. | 0.4 | 1 |
| 179 | s-norm aggregation of infinite collections. Fuzzy Sets and Systems, 1996, 84, 255-269. | 2.7 | 10 |
| 180 | Design and verification of mechatronic object-oriented models for industrial control systems. , 0, , . | | 29 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|----|-----------|
| 181 | On the Use of UML for Modeling Physical Systems. , 0, , . | | 5 |
| 182 | Unified Modeling and Verification of Logic Controllers for Physical Systems. , 0, , . | | 8 |
| 183 | Verification of Behavioral Substitutability in Object-Oriented Models for Industrial Controllers. , 0, , . | | 2 |
| 184 | Object-oriented modeling of multi-domain systems. , 0, , . | | 7 |