

Andrea MonteriÃ¹

List of Publications by Year in descending order

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Version: 2024-02-01

170
papers

1,830
citations

393982

19
h-index

377514

34
g-index

176
all docs

176
docs citations

176
times ranked

1724
citing authors

#	ARTICLE	IF	CITATIONS
1	Augmenting robot intelligence via EEG signals to avoid trajectory planning mistakes of a smart wheelchair. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2023, 14, 223-235.	3.3	7
2	Fault Diagnosis of Rotating Machinery Based on Wasserstein Distance and Feature Selection. <i>IEEE Transactions on Automation Science and Engineering</i> , 2022, 19, 1997-2007.	3.4	11
3	Comparing between Different Sets of Preprocessing, Classifiers, and Channels Selection Techniques to Optimise Motor Imagery Pattern Classification System from EEG Pattern Recognition. <i>Brain Sciences</i> , 2022, 12, 57.	1.1	6
4	Optimal Fault Tolerant Error Governor for PID Controllers. <i>International Journal of Control, Automation and Systems</i> , 2022, 20, 1814-1826.	1.6	2
5	Development and experimental validation of algorithms for human-robot interaction in simulated and real scenarios. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021, 12, 4529-4539.	3.3	1
6	Biological age estimation using an eHealth system based on wearable sensors. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021, 12, 4449-4460.	3.3	7
7	Hybrid Deep Learning (hDL)-Based Brain-Computer Interface (BCI) Systems: A Systematic Review. <i>Brain Sciences</i> , 2021, 11, 75.	1.1	54
8	Stress Detection in Computer Users From Keyboard and Mouse Dynamics. <i>IEEE Transactions on Consumer Electronics</i> , 2021, 67, 12-19.	3.0	16
9	Optimal error governor for PID controllers. <i>International Journal of Systems Science</i> , 2021, 52, 2480-2492.	3.7	7
10	Disturbance Observer Based Fault Tolerant Control for Tilted Hexarotors. , 2021, , .		2
11	Arc fault detection and appliances classification in AC home electrical networks using recurrence quantification plots and image analysis. <i>Electric Power Systems Research</i> , 2021, 201, 107503.	2.1	11
12	Measuring Environmental Data and Physiological Parameters at Home to Assess the Caregiver Burden in Assistants of People with Dementia. <i>Lecture Notes in Electrical Engineering</i> , 2021, , 3-13.	0.3	0
13	Robotics in Education: A Smart and Innovative Approach to the Challenges of the 21st Century. <i>Lecture Notes in Networks and Systems</i> , 2021, , 17-26.	0.5	10
14	Neuromuscular Control Modelling of Human Perturbed Posture Through Piecewise Affine Autoregressive With Exogenous Input Models. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 804904.	2.0	1
15	Constrained Control Allocation for a Remotely Operated Vehicle with Collective Azimuth Thrusters. , 2020, , .		0
16	LS-SVM for LPV-ARX Identification: Efficient Online Update by Low-Rank Matrix Approximation. , 2020, , .		8
17	Estimation of actuator faults in quadrotor vehicles: from theory to validation with experimental flight data. , 2020, , .		1
18	Online Fault Detection: a Smart Approach for Industry 4.0. , 2020, , .		3

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19	A nonlinear optimal control approach for the autonomous octorotor. <i>Advanced Control for Applications</i> , 2020, 2, e50.	0.8	2
20	Analysis of LGV usage for the improvement of a customized production. <i>Procedia Manufacturing</i> , 2020, 51, 1606-1613.	1.9	1
21	System Thinking Approach for Digital Twin Analysis. , 2020, , .		4
22	Measurement of Usersâ€™ Well-Being Through Domotic Sensors and Machine Learning Algorithms. <i>IEEE Sensors Journal</i> , 2020, 20, 8029-8038.	2.4	28
23	A functional source separation algorithm to enhance error-related potentials monitoring in noninvasive brain-computer interface. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 191, 105419.	2.6	18
24	Actuator Fault-Tolerant Control Architecture for Multirotor Vehicles in Presence of Disturbances. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2020, 99, 859-874.	2.0	9
25	Digital Twin Reference Model Development to Prevent Operatorsâ€™ Risk in Process Plants. <i>Sustainability</i> , 2020, 12, 1088.	1.6	116
26	Decision support methodologies and day-ahead optimization for smart building energy management in a dynamic pricing scenario. <i>Energy and Buildings</i> , 2020, 216, 109963.	3.1	11
27	A Stress Detection System based on Multimedia Input Peripherals. , 2020, , .		2
28	Machine Learning-as-a-Service for Consumer Electronics Fault Diagnosis: a Comparison between Matlab and Azure ML. , 2020, , .		3
29	Augmented Reality Smart Glasses in the Workplace: Safety and Security in the Fourth Industrial Revolution Era. <i>Lecture Notes in Computer Science</i> , 2020, , 231-247.	1.0	12
30	Actuator Fault Tolerant Control of Variable Pitch Quadrotor Vehicles. <i>IFAC-PapersOnLine</i> , 2020, 53, 4095-4102.	0.5	6
31	Sparse Approximation of LS-SVM for LPV-ARX Model Identification: Application to a Powertrain Subsystem. , 2020, , .		4
32	Convolutional Recurrent Neural Networks and Acoustic Data Augmentation for Snore Detection. <i>Smart Innovation, Systems and Technologies</i> , 2020, , 35-46.	0.5	3
33	Cyber-physical manufacturing systems: An architecture for sensor integration, production line simulation and cloud services. <i>Acta IMEKO (2012)</i> , 2020, 9, 39.	0.4	2
34	Day-Ahead Multi-Objective Energy Optimization of a Smart Building in a Dynamic Pricing Scenario. <i>Springer Proceedings in Energy</i> , 2020, , 195-205.	0.2	0
35	Psychophysiological Stress Control via Heart Rate Entrainment. , 2019, , .		1
36	Cyber-Physical Manufacturing Systems for Industry 4.0: Architectural Approach and Pilot Case. , 2019, , .		3

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37	Octarotor Fault Tolerant Control via Dynamic Surface Control. , 2019, , .		2
38	Direct position control of an octarotor unmanned vehicle under wind gust disturbance. , 2019, , .		2
39	A life cycle costing of compacted lithium titanium oxide batteries for industrial applications. Journal of Power Sources, 2019, 436, 226837.	4.0	20
40	The KIMORE Dataset: Kinematic Assessment of Movement and Clinical Scores for Remote Monitoring of Physical Rehabilitation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1436-1448.	2.7	58
41	Actuator Fault Tolerant Position Control of a Quadrotor Unmanned Aerial Vehicle. , 2019, , .		4
42	An Automated Procedure to Evaluate Usability of eHealth Platforms In The Wild. , 2019, , .		1
43	Design and Implementation of a Real-Time Upper Limbs Dyskinesia Detection System. , 2019, , .		1
44	Human-Robot Cooperation via Brain Computer Interface in Assistive Scenario. Lecture Notes in Electrical Engineering, 2019, , 115-131.	0.3	4
45	A Model-Based Approach to Support the Design of Mold Heating for Composites. Lecture Notes in Mechanical Engineering, 2019, , 391-401.	0.3	0
46	Special Issue on "Smart Homes" Editors' Notes. Sensors, 2019, 19, 836.	2.1	3
47	Architecture for Cooperative Interacting Robotic Systems Towards Assisted Living: A Preliminary Study. Lecture Notes in Electrical Engineering, 2019, , 471-486.	0.3	0
48	Smart Monitoring of User and Home Environment: The Health@Home Acquisition Framework. Lecture Notes in Electrical Engineering, 2019, , 23-37.	0.3	3
49	Smart Homes and Assisted Living as an Additional Service Offered to the Users. , 2019, , .		1
50	A Machine-Learning Based Emotion Recognition System in Patients with Parkinson's Disease. , 2019, , .		2
51	Empowered Optical Inspection by Using Robotic Manipulator in Industrial Applications. , 2019, , .		1
52	Recurrence Quantification Analysis of Stator-Current Measurements for Electric Motor Fault Classification. , 2019, , .		1
53	Towards the Design of a Machine Learning-based Consumer Healthcare Platform powered by Electronic Health Records and measurement of Lifestyle through Smartphone Data. , 2019, , .		3
54	Fault Tolerant Control for an Over-Actuated WAM-V Catamaran. IFAC-PapersOnLine, 2019, 52, 353-359.	0.5	1

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55	Fault detection of a VTOL UAV using Acceleration Measurements. , 2019, , .		11
56	An Effective and Simple Adaptive Algorithm for Ship Course Control Systems. , 2019, , .		0
57	ErrP Signals Detection for Safe Navigation of a Smart Wheelchair. , 2019, , .		2
58	Real time indoor localization integrating a model based pedestrian dead reckoning on smartphone and BLE beacons. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 1-12.	3.3	64
59	A Non-invasive Method for Biological Age Estimation Using Frailty Phenotype Assessment. Lecture Notes in Electrical Engineering, 2019, , 81-94.	0.3	3
60	Dual-Arm Manipulators Kinematic Control Under Multiple Constraints via Virtual Joints Approach. , 2019, , .		0
61	Dynamic surface fault tolerant control for underwater remotely operated vehicles. ISA Transactions, 2018, 78, 10-20.	3.1	53
62	Complex activity recognition system based on cascade classifiers and wearable device data. , 2018, , .		8
63	Improving mobility and autonomy of disabled users via cooperation of assistive robots. , 2018, , .		12
64	Statistical Spectral Analysis for Fault Diagnosis of Rotating Machines. IEEE Transactions on Industrial Electronics, 2018, 65, 4301-4310.	5.2	110
65	A robust and self-tuning speed control for permanent magnet synchronous motors via meta-heuristic optimization. International Journal of Advanced Manufacturing Technology, 2018, 96, 1283-1292.	1.5	6
66	A Hidden Semi-Markov Model based approach for rehabilitation exercise assessment. Journal of Biomedical Informatics, 2018, 78, 1-11.	2.5	40
67	An automatic temperature control for induction cooktops to reduce energy consumption. , 2018, , .		1
68	Dual-arm cooperative manipulation under joint limit constraints. Robotics and Autonomous Systems, 2018, 99, 110-120.	3.0	36
69	A Constrained Thrust Allocation Algorithm for Remotely Operated Vehicles. IFAC-PapersOnLine, 2018, 51, 250-255.	0.5	6
70	Fault Tolerant Control Scheme for Robotic Manipulators Affected by Torque Faults. IFAC-PapersOnLine, 2018, 51, 886-893.	0.5	13
71	A Model-based Active Fault Tolerant Control Scheme for a Remotely Operated Vehicle. IFAC-PapersOnLine, 2018, 51, 798-805.	0.5	16
72	Upper and Lower Limbs Dyskinesia Detection for Patients with Parkinsonâ€™s Disease. , 2018, , .		0

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73	A Smart Home Services Demonstration: Monitoring, Control and Security Services Offered to the User. , 2018, , .		11
74	Hear to see - See to hear: a Smart Home System User Interface for visually or hearing-impaired people. , 2018, , .		0
75	Kinematic Fault Tolerant Control of a Dual-Arm Robotic System Under Torque Faults. , 2018, , .		2
76	Induction Mold Heating: Modelling and Hardware-in-the-Loop Simulation for Temperature Control. , 2018, , .		0
77	Fall Detection System by Using Ambient Intelligence and Mobile Robots. , 2018, , .		9
78	Dynamic Surface Control for Multicopter Vehicles. , 2018, , .		4
79	Cooperative Robots Architecture for an Assistive Scenario. , 2018, , .		5
80	Energy Saving in Industrial Wireless Power Recharge System: Simulation of a PI-Sliding Mode Control for a Non-Inverting Buck-Boost Converter. , 2018, , .		0
81	Fault Detection, Diagnosis and Fault Tolerant Output Control for a Remotely Operated Vehicle. , 2018, , .		8
82	A Gestures Recognition Based Approach for Human-Robot-Interaction. , 2018, , .		0
83	Collaborative design of a telerehabilitation system enabling virtual second opinion based on fuzzy logic. IET Computer Vision, 2018, 12, 502-512.	1.3	6
84	First Approach to a Holistic Tool for Assessing RES Investment Feasibility. Sustainability, 2018, 10, 1153.	1.6	2
85	A Smart Sensing Architecture for Domestic Monitoring: Methodological Approach and Experimental Validation. Sensors, 2018, 18, 2310.	2.1	45
86	Non intrusive load identification for smart energy management systems. , 2018, , .		1
87	A Preliminary Study of a Cyber Physical System for Industry 4.0: Modelling and Co-Simulation of an AGV for Smart Factories. , 2018, , .		9
88	Health@Home: pilot cases and preliminary results : Integrated residential sensor network to promote the active aging of real users. , 2018, , .		12
89	Fault-Tolerant Disturbance Observer Based Control for Altitude and Attitude Tracking of a Quadrotor. , 2018, , .		3
90	Fault Detection and Isolation of Linear Discrete-Time Periodic Systems Using the Geometric Approach. IEEE Transactions on Automatic Control, 2017, 62, 1518-1523.	3.6	21

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91	An adaptive VSS control for remotely operated vehicles. International Journal of Adaptive Control and Signal Processing, 2017, 31, 507-521.	2.3	5
92	Robust Control of a Photovoltaic Battery System via Fuzzy Sliding Mode Approach. Studies in Computational Intelligence, 2017, , 115-142.	0.7	1
93	Particle Swarm Optimization Based Sliding Mode Control Design: Application to a Quadrotor Vehicle. Studies in Computational Intelligence, 2017, , 143-169.	0.7	5
94	Temperature control of an innovative aluminium-steel molds induction preheat process placed on automated laser guided vehicles. , 2017, , .		6
95	Active Fault Tolerant Control of Remotely Operated Vehicles via Control Effort Redistribution. , 2017, , .		3
96	A Parametric Optimization Approach of an Induction Heating System for Energy Consumption Reduction. , 2017, , .		3
97	Nonlinear control of a photovoltaic battery system via ABC-tuned Dynamic Surface Controller. , 2017, , .		1
98	Human-robot cooperation via brain computer interface. , 2017, , .		5
99	A QR-code localization system for mobile robots: Application to smart wheelchairs. , 2017, , .		11
100	Cyber-physical system integration for industry 4.0: Modelling and simulation of an induction heating process for aluminium-steel molds in footwear soles manufacturing. , 2017, , .		17
101	A Variable Structure System Control and its Application in Underwater Vehicles. IFAC-PapersOnLine, 2017, 50, 7019-7026.	0.5	1
102	An Avoidance Control Strategy for Joint-Position Limits of Dual-Arm Robots. IFAC-PapersOnLine, 2017, 50, 1056-1061.	0.5	7
103	Real-time fall detection system by using mobile robots in smart homes. , 2017, , .		7
104	Modelling and hardware-in-the-loop simulation for energy management in induction cooktops. , 2017, , .		2
105	Human Indoor Localization for AAL Applications: An RSSI Based Approach. Lecture Notes in Electrical Engineering, 2017, , 239-250.	0.3	3
106	An Open and Modular Hardware Node for Wireless Sensor and Body Area Networks. Journal of Sensors, 2016, 2016, 1-16.	0.6	13
107	An Integrated Simulation Module for Cyber-Physical Automation Systems. Sensors, 2016, 16, 645.	2.1	18
108	Redundancy analysis of cooperative dual-arm manipulators. International Journal of Advanced Robotic Systems, 2016, 13, 172988141665775.	1.3	19

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109	A detection-estimation approach with refinement to filtering for Gaussian systems with intermittent observations. , 2016, , .		1
110	A kinematic joint fault tolerant control based on relative jacobian method for dual arm manipulation systems. , 2016, , .		4
111	Implementation of an "at-home" e-Health system using heterogeneous devices. , 2016, , .		16
112	The Role of ICT in the Italian Health Care System. Lecture Notes in Electrical Engineering, 2016, , 3-17.	0.3	0
113	Wireless sensor network based management system for electric bicycle-sharing. , 2016, , .		1
114	A thruster failure tolerant control scheme for underwater vehicles. , 2016, , .		4
115	Room occupancy detection: Combining RSS analysis and fuzzy logic. , 2016, , .		6
116	A Nonlinear System with Coupled Switching Surfaces for Remotely Operated Vehicle Control. IFAC-PapersOnLine, 2016, 49, 311-316.	0.5	7
117	A novel RSSI based approach for human indoor localization: The Fuzzy Discrete Multilateration. , 2016, , .		5
118	Fault detection of nonlinear processes based on switching linear regression models. , 2016, , .		0
119	rapros: A ROS Package for Rapid Prototyping. Studies in Computational Intelligence, 2016, , 491-508.	0.7	4
120	A Virtual Thruster-Based Failure Tolerant Control Scheme for Underwater Vehicles. IFAC-PapersOnLine, 2015, 48, 146-151.	0.5	11
121	A detection-estimation approach to filtering with intermittent observations with generally correlated packet dropouts. , 2015, , .		7
122	A novel LDA-based approach for motor bearing fault detection. , 2015, , .		22
123	An integrated simulation environment for Wireless Sensor Networks. , 2015, , .		4
124	An integrated simulation module for wireless cyber-physical system. , 2015, , .		2
125	A Smart Lighting System for Visual Comfort and Energy Savings in Industrial and Domestic Use. Electric Power Components and Systems, 2015, 43, 1696-1706.	1.0	27
126	AAL Technologies for Independent Life of Elderly People. Biosystems and Biorobotics, 2015, , 329-343.	0.2	10

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127	Low Cost RGB-D Vision Based System to Support Motor Disabilities Rehabilitation at Home. Biosystems and Biorobotics, 2015, , 449-461.	0.2	2
128	Nonlinear Decentralized Model Predictive Control for Unmanned Vehicles Moving in Formation. Information Technology and Control, 2015, 44, .	1.1	7
129	Training and Retraining Motor Functions at Home with the Help of Current Technology for Video Games: Basis for the Project. Biosystems and Biorobotics, 2015, , 439-447.	0.2	2
130	SLAM-based autonomous wheelchair navigation system for AAL scenarios. , 2014, , .		16
131	A low cost mobile platform for educational robotic applications. , 2014, , .		3
132	A detection-estimation approach to filtering for Gaussian systems with intermittent observations. , 2014, , .		3
133	Actuator fault detection and isolation system for an hexacopter. , 2014, , .		18
134	Development of a smart LED lighting system: Rapid prototyping scenario. , 2014, , .		1
135	Respiratory rate detection algorithm based on RGB camera: theoretical background and experimental results. Healthcare Technology Letters, 2014, 1, 81-86.	1.9	58
136	Autonomous Assistive Robot for Respiratory Rate Detection and Tracking. , 2014, , 61-72.		4
137	A smart lighting system for industrial and domestic use. , 2013, , .		26
138	Geometric tools for solving the FDI problem for linear periodic discrete-time systems. International Journal of Control, 2013, 86, 1214-1226.	1.2	4
139	Optimal reduced-order quadratic solution for the non-Gaussian finite-horizon regulator problem. , 2013, , .		2
140	Reduced-Order Quadratic Kalman-Like Filtering of Non-Gaussian Systems. IEEE Transactions on Automatic Control, 2013, 58, 1744-1757.	3.6	16
141	A Fault Diagnosis and Prognosis LED Lighting System for Increasing Reliability in Energy Efficient Buildings. , 2013, , .		6
142	Actuator Fault Detection System for a Remotely Operated Vehicle. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 356-361.	0.4	7
143	Reduced-order quadratic Kalman-like filtering for non-Gaussian systems. , 2012, , .		2
144	A Diagnostic Thau Observer for a Class of Unmanned Vehicles. Journal of Intelligent and Robotic Systems: Theory and Applications, 2012, 67, 61-73.	2.0	52

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145	A coordination architecture for UUV fleets. Intelligent Service Robotics, 2012, 5, 133-146.	1.6	13
146	An Actuator Failure Tolerant Control Scheme for an Underwater Remotely Operated Vehicle. IEEE Transactions on Control Systems Technology, 2011, 19, 1036-1046.	3.2	84
147	Cooperative and decentralized navigation of autonomous underwater gliders using predictive control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 12813-12818.	0.4	5
148	An actuator failure tolerant robust control approach for an underwater Remotely Operated Vehicle. , 2011, , .		9
149	Fault tolerant decentralized nonlinear MPC for fleets of unmanned marine vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 348-353.	0.4	2
150	Actuator Failure Tolerant Control Design for Underwater Remotely Operated Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 25-30.	0.4	3
151	Observer-based Fault Tolerant Sliding Mode Control for Remotely Operated Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 173-178.	0.4	5
152	Actuator fault detection system for a mini-quadrotor. , 2010, , .		37
153	A geometric approach to Fault Detection and Isolation Problem for linear periodic systems. , 2010, , .		4
154	Fault Detection for Linear Periodic Systems Using a Geometric Approach. IEEE Transactions on Automatic Control, 2009, 54, 1637-1643.	3.6	33
155	Real-Time Model-Based Fault Detection and Isolation for UGVs. Journal of Intelligent and Robotic Systems: Theory and Applications, 2009, 56, 425-439.	2.0	18
156	A Model-Based Fault Diagnosis System for Unmanned Aerial Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 71-76.	0.4	14
157	An Actuator Failure Tolerant Approach for Underwater Remotely Operated Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 267-272.	0.4	2
158	Cooperative control of underwater glider fleets by fault tolerant decentralized MPC. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 16021-16026.	0.4	11
159	A geometric approach to fault detection of periodic systems. , 2007, , .		2
160	AN ACTUATOR FAULT TOLERANT APPROACH FOR UNDERWATER REMOTELY OPERATED VEHICLES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 293-299.	0.4	0
161	Model-Based Sensor Fault Detection and Isolation System for Unmanned Ground Vehicles: Experimental Validation (part II). Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	10
162	Model-Based Sensor Fault Detection and Isolation System for Unmanned Ground Vehicles: Theoretical Aspects (part I). Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	27

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163	Safe flying for an UAV helicopter. , 2007, , .		16
164	Residual generation approaches in navigation sensors fault detection applications. , 2007, , .		2
165	Autonomous Helicopter for Surveillance and Security. , 2007, , .		1
166	Experimental Validation of a Real-Time Model-Based Sensor Fault Detection and Isolation System for Unmanned Ground Vehicles. , 2006, , .		15
167	ON-LINE SENSOR FAULT DETECTION SYSTEM FOR A SMART WHEELCHAIR. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 91-96.	0.4	2
168	Experimental Validation of a Real-Time Model-Based Sensor Fault Detection and Isolation System for Unmanned Ground Vehicles. , 2006, , .		6
169	MODEL-BASED SENSOR FAULT DETECTION SYSTEM FOR A SMART WHEELCHAIR. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 269-274.	0.4	6
170	Navigation system for a smart wheelchair. Journal of Zhejiang University Science B, 2005, 6A, 110-117.	0.4	12