

Federico Barrero

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

193
papers

5,584
citations

40
h-index

69
g-index

221
ext. papers

6,703
ext. citations

4.2
avg. IF

6.25
L-index

#	Paper	IF	Citations
193	Predictive Control of Multi-Phase Motor for Constant Torque Applications. <i>Machines</i> , 2022 , 10, 211	2.9	1
192	Predictive Stator Current Control of a Five-phase Motor using a Hybrid Control Set. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2022 , 1-1	5.6	1
191	Adaptive Cost Function FCSMPC for 6-Phase IMs. <i>Energies</i> , 2021 , 14, 5222	3.1	2
190	Performance Analysis of Direct Torque Controllers in Five-Phase Electrical Drives. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 11964	2.6	5
189	Predictive current control in electrical drives: an illustrated review with case examples using a five-phase induction motor drive with distributed windings. <i>IET Electric Power Applications</i> , 2020 , 14, 1291-1310	1.8	13
188	Multiphase current imbalance localisation method applied to natural fault-tolerant strategies. <i>IET Electric Power Applications</i> , 2020 , 14, 1421-1429	1.8	5
187	Assessment of Virtual-Voltage-Based Model Predictive Controllers in Six-Phase Drives Under Open-Phase Faults. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 2634-2644	5.6	39
186	Cost function optimization for predictive control of a five-phase IM drive. <i>Optimal Control Applications and Methods</i> , 2020 , 41, 84-93	1.7	10
185	Assessing Variable Sampling Time Controllers for Five-Phase Induction Motor Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 2523-2531	8.9	7
184	Interest and Applicability of Meta-Heuristic Algorithms in the Electrical Parameter Identification of Multiphase Machines. <i>Energies</i> , 2019 , 12, 314	3.1	4
183	Reduction of common-mode voltage using a simplified FSC-MPC for a five-phase induction motor drive. <i>Journal of Engineering</i> , 2019 , 2019, 3772-3777	0.7	3
182	Model-Based Predictive Current Controllers in Multiphase Drives Dealing with Natural Reduction of Harmonic Distortion. <i>Energies</i> , 2019 , 12, 1679	3.1	5
181	Model predictive optimal control considering current and voltage limitations: Real-time validation using OPAL-RT technologies and five-phase permanent magnet synchronous machines. <i>Mathematics and Computers in Simulation</i> , 2019 , 158, 148-161	3.3	8
180	Constraint Satisfaction in Current Control of a Five-Phase Drive with Locally Tuned Predictive Controllers. <i>Energies</i> , 2019 , 12, 2715	3.1	2
179	Predictive controller considering electrical constraints: a case example for five-phase induction machines. <i>IET Electric Power Applications</i> , 2019 , 13, 1079-1088	1.8	5
178	Efficient Model Predictive Control with Natural Fault-Tolerance in Asymmetrical Six-Phase Induction Machines. <i>Energies</i> , 2019 , 12, 3989	3.1	6
177	Assessment of a Universal Reconfiguration-less Control Approach in Open-Phase Fault Operation for Multiphase Drives. <i>Energies</i> , 2019 , 12, 4698	3.1	12

176	Model-Based Control for Power Converters With Variable Sampling Time: A Case Example Using Five-Phase Induction Motor Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 5800-5809	8.9	8
175	Open-Switch Fault Detection in Five-Phase Induction Motor Drives Using Model Predictive Control. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 3045-3055	8.9	72
174	A Simple, Fast, and Robust Open-Phase Fault Detection Technique for Six-Phase Induction Motor Drives. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 547-557	7.2	80
173	Model Predictive Control of Six-Phase Induction Motor Drives Using Virtual Voltage Vectors. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 27-37	8.9	153
172	An Experimental Assessment of Open-Phase Fault-Tolerant Virtual-Vector-Based Direct Torque Control in Five-Phase Induction Motor Drives. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 2774-2784	7.2	66
171	Tolerancia al Fallo en Control Directo de Par con Vectores Virtuales de Tensi3n. <i>RIAI - Revista Iberoamericana De Automatica E Informatica Industrial</i> , 2018 , 16, 56	1.5	1
170	Trade-offs analysis in predictive current control of multi-phase induction machines. <i>Control Engineering Practice</i> , 2018 , 81, 105-113	3.9	25
169	Impact of Postfault Flux Adaptation on Six-Phase Induction Motor Drives With Parallel Converters. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 515-528	7.2	41
168	Influence of Covariance-Based ALS Methods in the Performance of Predictive Controllers With Rotor Current Estimation. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 2602-2607	8.9	33
167	A Simple Braking Method for Six-Phase Induction Motor Drives With Unidirectional Power Flow in the Base-Speed Region. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 6032-6041	8.9	23
166	Fault-Tolerant Control of Six-Phase Induction Motor Drives With Variable Current Injection. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 7894-7903	7.2	48
165	Sensitivity of predictive controllers to parameter variation in five-phase induction motor drives. <i>Control Engineering Practice</i> , 2017 , 68, 23-31	3.9	25
164	Multiphase Energy Conversion Systems Connected to Microgrids With Unequal Power-Sharing Capability. <i>IEEE Transactions on Energy Conversion</i> , 2017 , 32, 1386-1395	5.4	18
163	Open-Phase Fault-Tolerant Direct Torque Control Technique for Five-Phase Induction Motor Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 902-911	8.9	117
162	Resistance dissymmetry localization method based on vector space decomposition approach for six-phase induction machines 2017 ,		2
161	Multiphase Electric Drives: Introduction 2017 , 1-26		30
160	An Open-phase Fault Detection Method for Six-phase Induction Motor Drives. <i>Renewable Energy and Power Quality Journal</i> , 2017 , 1, 473-478		4
159	A methodology for structured ontology construction applied to intelligent transportation systems. <i>Computer Standards and Interfaces</i> , 2016 , 47, 108-119	3.5	17

158	Optimal Fault-Tolerant Control of Six-Phase Induction Motor Drives With Parallel Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 629-640	8.9	57
157	Recent Advances in the Design, Modeling, and Control of Multiphase Machines Part I. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 449-458	8.9	410
156	Recent Advances in the Design, Modeling, and Control of Multiphase Machines Part II. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 459-468	8.9	350
155	Comparative Study of Predictive and Resonant Controllers in Fault-Tolerant Five-Phase Induction Motor Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 606-617	8.9	140
154	Model predictive current controller using Kalman filter for fault-tolerant five-phase wind energy conversion systems 2016 ,		11
153	Online Estimation of Rotor Variables in Predictive Current Controllers: A Case Study Using Five-Phase Induction Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 5348-5356	8.9	48
152	Multiphase rotor current observers for current predictive control: A five-phase case study. <i>Control Engineering Practice</i> , 2016 , 49, 101-111	3.9	19
151	Harmonic analysis of direct digital control of voltage inverters. <i>Mathematics and Computers in Simulation</i> , 2016 , 130, 155-166	3.3	10
150	Five-Phase Induction Motor Rotor Current Observer for Finite Control Set Model Predictive Control of Stator Current. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 4527-4538	8.9	52
149	Multiphase machines and drives - Revisited. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 429-432	8.9	144
148	Fault-Tolerant Operation of Six-Phase Energy Conversion Systems With Parallel Machine-Side Converters. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 3068-3079	7.2	57
147	An Intelligent Strategy for Tactical Movements of UAVs in Disaster Scenarios. <i>International Journal of Distributed Sensor Networks</i> , 2016 , 12, 8132812	1.7	26
146	ANALYSIS AND SYNTHESIS OF SYMMETRICAL OUTPUT VOLTAGE OF THREE-LEVEL CONVERTERS WITH SPACE-VECTOR PWM. <i>Technical Electrodynamics</i> , 2016 , 2016, 17-19	0.5	1
145	Multi-inverter split-phase traction drive with nonlinear control modes and voltage symmetries 2016 ,		2
144	On-siteDriverID: A secure authentication scheme based on Spanish eID cards for vehicular ad hoc networks. <i>Future Generation Computer Systems</i> , 2016 , 64, 50-60	7.5	25
143	An evaluation methodology for reliable simulation based studies of routing protocols in VANETs. <i>Simulation Modelling Practice and Theory</i> , 2016 , 66, 139-165	3.9	12
142	The role of congestion in probabilistic broadcasting for ubiquitous wireless multi-hop networks through mediation analysis. <i>Pervasive and Mobile Computing</i> , 2015 , 24, 16-29	3.5	4
141	Performance Evaluation of Reactive Routing Protocols for VANETs in Urban Scenarios Following Good Simulation Practices 2015 ,		10

140	Combined PWM control of multi-inverter installation with two DC-links 2015 ,		1
139	Dynamically Reconfigurable WSN Node Based on ISO/IEC/IEEE 21451 TEDS. <i>IEEE Sensors Journal</i> , 2015 , 15, 2567-2576	4	5
138	The moderating role of prior experience in technological acceptance models for ubiquitous computing services in urban environments. <i>Technological Forecasting and Social Change</i> , 2015 , 91, 146-160	8.5	30
137	IGBT-Gating Failure Effect on a Fault-Tolerant Predictive Current-Controlled Five-Phase Induction Motor Drive. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 15-20	8.9	77
136	A survey on probabilistic broadcast schemes for wireless ad hoc networks. <i>Ad Hoc Networks</i> , 2015 , 25, 263-292	4.8	87
135	A Self Organising Aerial Ad Hoc Network Mobility Model for Disaster Scenarios 2015 ,		9
134	Problem Based Learning Case in a Control Undergraduate Subject. <i>IFAC-PapersOnLine</i> , 2015 , 48, 182-187	0.7	1
133	Reduced-order Observer Analysis in MBPC Techniques Applied to the Six-phase Induction Motor Drives 2015 ,		4
132	A simple braking method for six-phase induction motor drives with diode front-end rectifier 2015 ,		8
131	Six-phase motor drive with variable switching frequencies and voltage synchronization of inverters 2015 ,		3
130	Five-phase induction machine parameter identification using PSO and standstill techniques 2015 ,		3
129	Open-phase fault operation of 5-phase induction motor drives using DTC techniques 2015 ,		4
128	Learning Achievements Using a PBL-Based Methodology in an Introductory Electronics Course. <i>Revista Iberoamericana De Tecnologias Del Aprendizaje</i> , 2015 , 10, 296-301	1.2	5
127	Comparative study of DTC and RFOC methods for the open-phase fault operation of a 5-phase induction motor drive 2015 ,		4
126	A Survey on Multihop Ad Hoc Networks for Disaster Response Scenarios. <i>International Journal of Distributed Sensor Networks</i> , 2015 , 2015, 1-16	1.7	58
125	Harmonic Distribution in Finite State Model Predictive Control. <i>International Review of Electrical Engineering</i> , 2015 , 10, 172	1.9	2
124	Speed Control of Five-Phase Induction Motors With Integrated Open-Phase Fault Operation Using Model-Based Predictive Current Control Techniques. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 4474-4484	8.9	161
123	Multi-objective performance optimization of a probabilistic similarity/dissimilarity-based broadcasting scheme for mobile ad hoc networks in disaster response scenarios. <i>Soft Computing</i> , 2014 , 18, 1745-1756	3.5	27

122	A Dissemination Analysis in Mobile Wireless Ad Hoc Networks Using Probabilistic Broadcast 2014 ,		2
121	A Survey on Ad Hoc Networks for Disaster Scenarios 2014 ,		14
120	A reconfigurable WSN node based on ISO/IEC/IEEE 21451 standard 2014 ,		2
119	Extension of the DTC Technique to Multiphase Induction Motor Drives Using Any Odd Number of Phases 2014 ,		8
118	Networked transducers in intelligent transportation systems based on the IEEE 1451 standard. <i>Computer Standards and Interfaces</i> , 2014 , 36, 300-311	3.5	13
117	SVM Procedure for n -Phase VSI With Low Harmonic Distortion in the Overmodulation Region. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 92-97	8.9	45
116	Improving discovery phase of reactive ad hoc routing protocols using Jaccard distance. <i>Journal of Supercomputing</i> , 2014 , 67, 131-152	2.5	21
115	Standard and Non-Standard Approaches for Voltage Synchronization of Drive Inverters with Space-Vector PWM: a Survey. <i>International Review of Electrical Engineering</i> , 2014 , 9, 688	1.9	18
114	Intelligent Transportation Systems and Wireless Access in Vehicular Environment Technology for Developing Smart Cities. <i>Studies in Computational Intelligence</i> , 2014 , 285-313	0.8	9
113	Hybrid Flooding Scheme for Mobile Ad Hoc Networks. <i>IEEE Communications Letters</i> , 2013 , 17, 592-595	3.8	22
112	Understanding Power Electronics and Electrical Machines in Multidisciplinary Wind Energy Conversion System Courses. <i>IEEE Transactions on Education</i> , 2013 , 56, 174-182	2.1	24
111	Modelling and assessing ad hoc networks in disaster scenarios. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2013 , 4, 571-579	3.7	30
110	Space-Vector PWM With Reduced Common-Mode Voltage for Five-Phase Induction Motor Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 4159-4168	8.9	79
109	The Role of Ad Hoc Networks in the Internet of Things: A Case Scenario for Smart Environments. <i>Studies in Computational Intelligence</i> , 2013 , 89-113	0.8	38
108	Authentication Systems Using ID Cards over NFC Links: The Spanish Experience Using DNIE. <i>Procedia Computer Science</i> , 2013 , 21, 91-98	1.6	10
107	An evolutionary computation approach for optimizing connectivity in disaster response scenarios. <i>Applied Soft Computing Journal</i> , 2013 , 13, 833-845	7.5	32
106	Fault-tolerant control of six-phase induction generators in wind energy conversion systems with series-parallel machine-side converters 2013 ,		6
105	Space Vector PWM With Reduced Common-Mode Voltage for Five-Phase Induction Motor Drives Operating in Overmodulation Zone. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 4030-4040	7.2	75

104	Variable-Speed Five-Phase Induction Motor Drive Based on Predictive Torque Control. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 2957-2968	8.9	113
103	Identification of new added value services on intelligent transportation systems. <i>Behaviour and Information Technology</i> , 2013 , 32, 307-320	2.4	10
102	Analysis of embedded CORBA middleware performance on urban distributed transportation equipments. <i>Computer Standards and Interfaces</i> , 2013 , 35, 150-157	3.5	7
101	An Evolutionary Computational Approach for Optimizing Broadcasting in Disaster Response Scenarios 2013 ,		4
100	Analytical Evaluation of Switching Characteristics in Five-Phase Drives with Discontinuous Space Vector Pulse Width Modulation Techniques. <i>EPE Journal (European Power Electronics and Drives Journal)</i> , 2013 , 23, 24-33	0.4	4
99	Experimental magnetizing inductance identification in five-phase induction machines 2013 ,		3
98	Sensitivity to electrical parameter variations of Predictive Current Control in multiphase drives 2013 ,		18
97	A text categorisation tool for open source communities based on semantic analysis. <i>Behaviour and Information Technology</i> , 2013 , 32, 532-544	2.4	12
96	Harmonic content in VSI operated with homogeneous pulse width 2013 ,		1
95	Dual-rate background subtraction approach for estimating traffic queue parameters in urban scenes. <i>IET Intelligent Transport Systems</i> , 2013 , 7, 122-130	2.4	7
94	An evolutionary computation approach for designing mobile ad hoc networks. <i>Expert Systems With Applications</i> , 2012 , 39, 6838-6845	7.8	17
93	Parameter Identification of Multiphase Induction Machines With Distributed WindingsPart 1: Sinusoidal Excitation Methods. <i>IEEE Transactions on Energy Conversion</i> , 2012 , 27, 1056-1066	5.4	104
92	Environmental wireless sensor network for road traffic applications. <i>IET Intelligent Transport Systems</i> , 2012 , 6, 177	2.4	29
91	Synchronous modulation of cascaded inverters of asymmetrical open-end winding motor drive 2012 ,		3
90	Multiphase multi-inverter drive with discontinuous synchronized modulation 2012 ,		5
89	Direct torque control for five-phase induction motor drives with reduced common-mode voltage 2012 ,		7
88	An evolutionary factor analysis computation for mining website structures. <i>Expert Systems With Applications</i> , 2012 , 39, 11623-11633	7.8	6
87	Parameter Identification of Multiphase Induction Machines With Distributed WindingsPart 2: Time-Domain Techniques. <i>IEEE Transactions on Energy Conversion</i> , 2012 , 27, 1067-1077	5.4	84

86	Route duration improvement in wireless sensor and actuator networks based on mobility parameters and flooding control. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2012 , 2012,	3.2	3
85	Wind energy conversion system course for electrical engineers. Part 1: Theoretical background 2012 ,		2
84	Reduction of Common-Mode Voltage in Five-Phase Induction Motor Drives Using Predictive Control Techniques. <i>IEEE Transactions on Industry Applications</i> , 2012 , 48, 2059-2067	4.3	78
83	An ontology-based semantic service for cooperative urban equipments. <i>Journal of Network and Computer Applications</i> , 2012 , 35, 2037-2050	7.9	5
82	Modeling of a five-phase induction motor drive with a faulty phase 2012 ,		5
81	Optimization of network lifetime through energy-efficient broadcast scheme using dynamic random walk 2012 ,		2
80	Networked Electronic Equipments Using the IEEE 1451 Standard VisionWay: A Case Study in the ITS Area. <i>International Journal of Distributed Sensor Networks</i> , 2012 , 8, 467124	1.7	1
79	A comprehensive fault analysis of a five-phase induction motor drive with an open phase 2012 ,		22
78	Dynamic communication architecture for intelligent rail network governance 2012 ,		2
77	Speed control of five-phase induction motor drives with an open phase fault condition and predictive current control methods 2012 ,		2
76	Predictive current control with modulation in asymmetrical six-phase motor drives 2012 ,		8
75	Output current ripple analysis for asymmetrical six-phase drives using double zero-sequence injection PWM 2011 ,		15
74	Fault-tolerant current predictive control of five-phase induction motor drives with an open phase 2011 ,		20
73	Switching Ripple Characteristics of Space Vector PWM Schemes for Five-Phase Two-Level Voltage Source Inverters Part 2: Current Ripple. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 2799-2808	8.9	55
72	Predictive Current Control of Dual Three-Phase Drives Using Restrained Search Techniques. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 3253-3263	8.9	103
71	An Enhanced Predictive Current Control Method for Asymmetrical Six-Phase Motor Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 3242-3252	8.9	107
70	Comparative Analysis of Discontinuous and Continuous PWM Techniques in VSI-Fed Five-Phase Induction Motor. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 5324-5335	8.9	80
69	Distributed urban traffic applications based on CORBA event services. <i>International Journal of Space-Based and Situated Computing</i> , 2011 , 1, 86	0.3	9

68	A Reliable Route Selection Scheme Based on Caution Zone and Nodes' Arrival Angle. <i>IEEE Communications Letters</i> , 2011 , 15, 1252-1255	3.8	9
67	Switching Ripple Characteristics of Space Vector PWM Schemes for Five-Phase Two-Level Voltage Source Inverters Part 1: Flux Harmonic Distortion Factors. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 2789-2798	8.9	57
66	Identification of the design variables of eLearning tools. <i>Interacting With Computers</i> , 2011 , 23, 279-288	1.6	13
65	Evaluation of Ad Hoc Networks in Disaster Scenarios 2011 ,		26
64	Analysis of the Core Team Role in Open Source Communities 2011 ,		5
63	A framework for WSN using TinyOS and the IEEE1451 standard 2011 ,		2
62	Restrained search predictive control for five-phase dual-inverter supplied loads 2011 ,		1
61	An Exploratory Social Network Analysis of Academic Research Networks 2011 ,		8
60	Estimation of the electrical parameters of a five-phase induction machine using standstill techniques. Part II: Practical implications 2011 ,		5
59	An improvement of route duration in WSN based on nodes' mobility and RSS 2011 ,		1
58	Estimation of the electrical parameters of a five-phase induction machine using standstill techniques. Part I: Theoretical discussions 2011 ,		8
57	Web site structure mining using social network analysis. <i>Internet Research</i> , 2011 , 21, 104-123	4.8	11
56	Aplicaci3n de algoritmos gen3ricos a la identificaci3n de la estructura de enlaces en portales web. <i>Revista Espanola De Documentacion Cientifica</i> , 2011 , 34, 232-252	0.7	2
55	A shadow removal algorithm for vehicle detection based on reflectance ratio and edge density 2010 ,		5
54	The role of Internet in the development of future software projects. <i>Internet Research</i> , 2010 , 20, 72-86	4.8	28
53	A modified continuous PWM technique for asymmetrical six-phase induction machines 2010 ,		5
52	Predictive Torque Control for five-phase induction motor drives 2010 ,		12
51	Predictive current control of dual three-phase drives using restrained search techniques and multi level voltage source inverters 2010 ,		6

50	DC-bus utilization and overmodulation performance of five-phase voltage source inverters using model predictive control 2010 ,		7
49	Multiphase machines in propulsion drives of electric vehicles 2010 ,		20
48	Ubiquitous architecture for environmental sensor networks in road traffic applications 2010 ,		1
47	A Wireless In-door System for Assisting Victims and Rescue Equipments in a Disaster Management 2010 ,		2
46	Internet in the development of future road-traffic control systems. <i>Internet Research</i> , 2010 , 20, 154-168	4.8	11
45	Predictive-space vector PWM current control method for asymmetrical dual three-phase induction motor drives. <i>IET Electric Power Applications</i> , 2010 , 4, 26	1.8	86
44	Current paradigms in intelligent transportation systems. <i>IET Intelligent Transport Systems</i> , 2010 , 4, 201	2.4	22
43	An Enhanced Background Estimation Algorithm for Vehicle Detection in Urban Traffic Scenes. <i>IEEE Transactions on Vehicular Technology</i> , 2010 , 59, 3694-3709	6.8	60
42	Reforming ICT Graduate Programs to Meet Professional Needs. <i>Computer</i> , 2010 , 43, 22-29	1.6	1
41	Stability analysis of five-phase induction motor drives with variable third harmonic injection. <i>Electric Power Systems Research</i> , 2010 , 80, 1459-1468	3.5	6
40	Analysis of virtual communities supporting OSS projects using social network analysis. <i>Information and Software Technology</i> , 2010 , 52, 296-303	3.4	77
39	Enhanced predictive current control method for the asymmetrical dual three phase induction machine 2009 ,		4
38	Improved sigma-delta background estimation for vehicle detection. <i>Electronics Letters</i> , 2009 , 45, 32	1.1	20
37	Modeling Learner Satisfaction in an Electronic Instrumentation and Measurement Course Using Structural Equation Models. <i>IEEE Transactions on Education</i> , 2009 , 52, 190-199	2.1	8
36	Multi-phase current control using finite-state model-predictive control. <i>Control Engineering Practice</i> , 2009 , 17, 579-587	3.9	78
35	Embedded Multimedia Processors for Road-Traffic Parameter Extension. <i>Computer</i> , 2009 , 42, 61-68	1.6	13
34	Virtual communities as a resource for the development of OSS projects: the case of Linux ports to embedded processors. <i>Behaviour and Information Technology</i> , 2009 , 28, 405-419	2.4	29
33	Multi-sensor integration in the vehicular system using the IEEE1451 Std.: A case study 2009 ,		2

32	Sigma-Delta modulation for multiphase drives 2009 ,		2
31	Improved techniques of restrained search predictive control for multiphase drives 2009 ,		8
30	A Proof of Concept Study of Predictive Current Control for VSI-Driven Asymmetrical Dual Three-Phase AC Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 1937-1954	8.9	150
29	. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 1974-1983	8.9	105
28	An empirical study of the driving forces behind online communities. <i>Internet Research</i> , 2009 , 19, 378-392	4.8	64
27	A License Plate Extraction Algorithm Based on Edge Statistics and Region Growing. <i>Lecture Notes in Computer Science</i> , 2009 , 317-326	0.9	4
26	ESTUDIO Y ANÁLISIS DE LAS LISTAS DE DISTRIBUCIÓN EN PROYECTOS DE SOFTWARE DE CÓDIGO ABIERTO COMO MEDIO PARA COMPARTIR CONOCIMIENTO. <i>Investigaciones Europeas De Dirección Y Economía De La Empresa</i> , 2008 , 14, 79-90		
25	An Enhanced Background Estimation Algorithm for Vehicle Detection in Urban Traffic Video 2008 ,		7
24	Development of an Embedded Vision based Vehicle Detection System using an ARM Video Processor 2008 ,		5
23	A technological acceptance of e-learning tools used in practical and laboratory teaching, according to the European higher education area 1.1. This research has been funded by the Spanish Education and Science Ministry, in its Study and Analysis Programme (EA2005 D176). View all notes. <i>Behaviour and Information Technology</i> , 2008 , 27, 495-505	2.4	104
22	eDSPLab: remote laboratory for experiments on DSP applications. <i>Internet Research</i> , 2008 , 18, 79-92	4.8	19
21	Multi-Dimensional Space Vector Pulse Width Modulation Scheme for Five-Phase Series-Connected Two-Motor Drives 2007 ,		5
20	Interactive multimedia teaching of digital signal processors. <i>Computer Applications in Engineering Education</i> , 2007 , 15, 88-98	1.6	8
19	A learning methodology using Matlab/Simulink for undergraduate electrical engineering courses attending to learner satisfaction outcomes. <i>International Journal of Technology and Design Education</i> , 2007 , 17, 55-73	1.1	28
18	An electronic engineering curriculum design based on concept-mapping techniques. <i>International Journal of Technology and Design Education</i> , 2007 , 17, 341-356	1.1	17
17	Improving learning performance in laboratory instruction by means of SMS messaging. <i>Innovations in Education and Teaching International</i> , 2007 , 44, 409-422	1.3	7
16	Analysis of utility and use of a web-based tool for digital signal processing teaching by means of a technological acceptance model. <i>Computers and Education</i> , 2007 , 49, 957-975	9.5	38
15	Real-time implementation of multi-dimensional five-phase space vector pulse-width modulation. <i>Electronics Letters</i> , 2007 , 43, 949	1.1	18

14	Multi-dimensional space vector pulse width modulation for disturbance-free operation of a five-phase AC motor drive 2007 ,		3
13	Addressing Learner Satisfaction Outcomes in Electronic Instrumentation and Measurement Laboratory Course Organization. <i>IEEE Transactions on Education</i> , 2007 , 50, 129-136	2.1	22
12	Real-Time Implementation of Multi-Dimensional Five-Phase Space Vector PWM Using Look-Up Table Techniques 2007 ,		5
11	eDSPlab: A remote-accessed instrumentation laboratory for digital signal processors training based on the Internet. <i>Industrial Electronics Society (IECON), Annual Conference of IEEE</i> , 2006 ,		8
10	SMALL-SCALE DOMOTIC SYSTEM AS PROTOTYPE OF REMOTE CYBERNETIC APPLICATIONS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 499-504		
9	Planning a Master's Level Curriculum According to Career Space Recommendations Using Concept Mapping Techniques. <i>International Journal of Technology and Design Education</i> , 2006 , 16, 237-252	1.1	10
8	A digital signal processing teaching methodology using concept-mapping techniques. <i>IEEE Transactions on Education</i> , 2005 , 48, 422-429	2.1	24
7	Implementation of a web-based educational tool for digital signal processing teaching using the technological acceptance model. <i>IEEE Transactions on Education</i> , 2005 , 48, 632-641	2.1	27
6	Speed control of induction motors using a novel fuzzy sliding-mode structure. <i>IEEE Transactions on Fuzzy Systems</i> , 2002 , 10, 375-383	8.3	69
5	ASITRON: ASIC for vectorial control of induction motors and speed regulation using fuzzy-logic		2
4	Self-commissioning for voltage-referenced voltage-fed vector controlled induction motor drives		4
3	Fuzzy logic control of a variable speed, variable pitch wind turbine		3
2	A switching fuzzy controller for induction motor with self-tuning capability		2
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