



Gheorghe-Daniel Andreescu

Professor, Automation and Applied Informatics
Dept., Politehnica University of Timisoara,
Romania

advanced control of electric drives - observers,
mechatronics systems, control of power converters,
greenhouse climate control

Google Scholar

Citation indices

Citations
h-index
i10-index

All
1287
18
26

Since 2012

817
15
20

Title	1–20	Cited by	Year
Combined flux observer with signal injection enhancement for wide speed range sensorless direct torque control of IPMSM drives	GD Andreescu, CI Pitic, F Blaabjerg, I Boldea IEEE Transactions on Energy Conversion 23 (2), 393-402	173	2008
Active flux concept for motion-sensorless unified AC drives	I Boldea, MC Paicu, GD Andreescu IEEE Transactions on Power Electronics 23 (5), 2612-2618	145	2008
Sliding-mode observer and improved integrator with DC-offset compensation for flux estimation in sensorless-controlled induction motors	C Lascu, GD Andreescu IEEE Transactions on Industrial Electronics 53 (3), 785-794	114	2006
"Active Flux" DTFC-SVM sensorless control of IPMSM	I Boldea, MC Paicu, GD Andreescu, F Blaabjerg IEEE Transactions on Energy Conversion 24 (2), 314-322	102	2009
Voltage sags ride-through of motion sensorless controlled PMSG for wind turbines	M Fatu, C Lascu, GD Andreescu, R Teodorescu, F Blaabjerg, I Boldea Industry Applications Conference, 2007. 42nd IAS Annual Meeting. Conference ...	65	2007
DTFC-SVM motion-sensorless control of a PM-assisted reluctance synchronous machine as starter-alternator for hybrid electric vehicles	I Boldea, CI Pitic, C Lascu, GD Andreescu, L Tutelea, F Blaabjerg, ... IEEE Transactions on Power Electronics 21 (3), 711-719	59	2006
Very low speed performance of active flux based sensorless control: interior permanent magnet synchronous motor vector control versus direct torque and flux control	MC Paicu, I Boldea, GD Andreescu, F Blaabjerg IET Electric Power Applications 3 (6), 551-561	46	2009
Sensorless V/f control of high-speed surface permanent magnet synchronous motor drives with two novel stabilising loops for fast dynamics and robustness	R Ancuti, I Boldea, GD Andreescu IET Electric Power Applications 4 (3), 149-157	42	2010
IF starting method with smooth transition to EMF based motion-sensorless vector control of PM synchronous motor/generator	M Fatu, R Teodorescu, I Boldea, GD Andreescu, F Blaabjerg Power Electronics Specialists Conference, 2008. PESC 2008. IEEE, 1481-1487	39	2008

Title	1–20	Cited by	Year
Position and speed sensorless control of PMSM drives based on adaptive observer	GD Andreescu Proc. EPE 99, 1-10	37	1999
Adaptive observer for sensorless control of permanent magnet synchronous motor drives	GD Andreescu Electric Power Components and Systems 30 (2), 107-119	34	2002
Motion-sensorless control of BLDC-PM motor with offline FEM-information-assisted position and speed observer	A Stirban, I Boldea, G Andreescu IEEE Transactions on Industry Applications 48 (6), 1950-1958	26	2012
“Active flux” orientation vector sensorless control of IPMSM	I Boldea, MC Paicu, GD Andreescu, F Blaabjerg Optimization of Electrical and Electronic Equipment, 2008. OPTIM 2008. 11th ...	22	2008
BEGA starter/alternator—vector control implementation and performance for wide speed range at unity power factor operation	I Boldea, V Coroban-Schramel, GD Andreescu, F Blaabjerg, S Scridon IEEE Transactions on Industry Applications 46 (1), 150-158	21	2010
Active-flux-based motion-sensorless vector control of biaxial excitation generator/motor for automobiles	V Coroban-Schramel, I Boldea, GD Andreescu, F Blaabjerg IEEE Transactions on Industry Applications 47 (2), 812-819	20	2011
Active flux based motion-sensorless vector control of DC-excited synchronous machines	I Boldea, GD Andreescu, C Rossi, A Pilati, D Casadei Energy Conversion Congress and Exposition, 2009. ECCE 2009. IEEE, 2496-2503	19	2009
Two sliding mode based observers for sensorless control of PMSM drives	GD Andreescu, A Popa, A Spilca Electric Power Components and Systems 30 (2), 121-133	19	2002
Stable V/f control system with controlled power factor angle for permanent magnet synchronous motor drives	SC Agarlita, CE Coman, GD Andreescu, I Boldea IET Electric Power Applications 7 (4), 278-286	18	2013
Comparison study of PID controller tuning for greenhouse climate with feedback-feedforward linearization and decoupling	EH Gurban, GD Andreescu System Theory, Control and Computing (ICSTCC), 2012 16th International ...	15	2012
Stable V/f control system with unity power factor for PMSM drives	GD Andreescu, CE Coman, A Moldovan, I Boldea Optimization of Electrical and Electronic Equipment (OPTIM), 2012 13th ...	15	2012

Dates and citation counts are estimated and are determined automatically by a computer program.