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HF-015938	Modeling of Faults in Operational Amplifier Circuits using Bond Graph	Cesar Peraza, Jose Gregorio Diaz-Paruell, Francisco J. Arteaga-Bravo, Carlos Villanueva, Francisco Gonzalez-Longatt
HF-016004	High-Order Sliding Mode Control of DFIG-Based Marine Current Turbine	Seif Eddine Ben Elghali, Mohamed Benbouzid, Tarek Ahmed-Ali, Jean FrÉdÉric Charpentier, Fatiha Mekri
HF-016063	Near-field coupled antennas for use in Inductive Power Transfer Communication Systems	Edward L. van Boheemen, John T. Boys, Grant A. Covic
HF-016101	Modeling and Control of a Grid Connected VSI using a delta connected LCL Filter	Sangin Lee, Kui-jun Lee, Dong-seok Hyun
HF-016152	A modular distributed generation system with peak power point tracking	Joel Davey, Udaya Madawala, Rajinish Sharma
HF-016209	An EKF-Based Observer for Sensorless Valve Control in Camless Internal Combustion Engine	Duccio Doretti, Antonio Fabbri, Steffen Braune, Andrea Garulli, Paolo Mercorelli
HF-016225	Purely CMOS Angular Position Sensor Based on a New Hall Microchip	Pavel Kejik, Serge Reymond, Radivoje S. Popovic
HF-016233	Predictive Filling Weight Sequence Control in Automatic Pouring System	Yoshiyuki Noda, Kazuhiko Terashima
HF-016241	Optimal Trajectory Generation for Camless Internal Combustion Engine Valve Control	Antonio Fabbri, Duccio Doretti, Steffen Braune, Andrea Garulli, Paolo Mercorelli
HF-016322	STATCOM Control with Instantaneous Phase-locked Loop for Performance Improvement under Single-line to Ground Fault	Zhengping Xi, Subhashish Bhattacharya
HF-016357	Control of Teleoperation Systems Operating under Communication Line Failures	Mehmet Ismet Can Dede, Sabri Tosunoglu
HF-016454	Voltage Ripple Reduction in Series-Parallel Resonant Converters by a Novel Robust H-inf Control Approach	Majid Pahlevaninezhad, S. Ali Khajehoddi, Alireza Bakhshai, Praveen Jain, Joanne Hui
HF-016519	Modeling and Analysis of PWM Converters with a New GSSA Method	Liang Dong, Hao Ma, Fei Xu
HF-016551	Design of a Robust Model Reference Adaptive Control for a Shunt Active Power Filter	Mrcio Stefanello, Jo, o Kanieski, Rafael Cardoso, Hilton Gr, ndling
HF-016616	Reconfigurable Three-phase Active Filter into an Auxiliary Uninterruptible Power Supply	Rafael OrdoÑez, Daniel Sadarnac
HF-016632	Performance Analysis of VMC and CMCs of Switch-Mode Converters for Photovoltaic Applications	Kazi Nazmul Hasan, Md. Enamul Haque, Michael Negnevitsky, Kashem M. Muttaqi
HF-016667	SU8 Enhanced High Power Density MEMS Inductors	Mingliang Wang, Khai D. T. Ngo, Huikai Xie
HF-016705	Hysteresis Describing Methode for Control of an Active Filter	Rafael OrdoÑez
HF-016756	An Improved CSI Fed Induction Motor Drive for Medium Voltage Applications	Abdul R Beig, Ranganathan V.T.
HF-016799	A Novel Direct AC/DC Converter for Efficient Low Voltage Energy Harvesting	Suman Dwari, Rohan Dayal, Leila Parsa
HF-016861	A Generalized Mathematical Model for Vector Inversion Generators	Duleepa Thrimawithana, Udaya Madawala
HF-017175	Development of Reconfigurable Energy-Efficient Wireless Sensor Networks for Real-Time Data Acquisition	Cheng-tai Yeh, Robert X. Gao
HF-017248	System Modeling and Design Considerations for Point-of-Load Digital Power Supplies	Abhiman Hande, Sukumar Kamalasan
HF-017329	Robust Control of F-16 Lateral Dynamics	Hoa Vo, Sridhar Seshagiri
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HF-017604	Digital Control of a Brushless Excitation Synchronous Starter/Generator in the Generation Mode	Amira Maalouf, Wissem Naouar, Eric Monmasson, Ammar Naassani, Sandrine Leballois, Jean-Yves Midy
HF-017612	Implementation of Multirate Acceleration Control Based Bilateral Control System Including Mode Transformation on FPGA	Hiroyuki Tanaka, Kouhei Ohnishi, Hiroaki Nishi
HF-017639	Analysis, Control and Modeling of Cascaded Multilevel Converter-Based IPC	Afshin Samadi, Shahrokh Farhangi
HF-017647	A Practical Approach to Controlling the Back-to-Back Voltage Source Converter System	Babak Parkhideh, Subhashish Bhattacharya
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HF-017965	Output Error Voltages ñ A First Method to Detect and Locate Faults in Matrix Converters	SÉrgio Cruz, Marco Ferreira, AntÓnio Cardoso
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HF-018155	Study of Neutral Point Potential Variation for Three-Level NPC Inverter under Fault Condition	Jong-Je Park, Tae-Jin Kim, Dong-Seok Hyun
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HF-018341	Categorical Data Analysis for Equipment Failure Prediction	Ming Luo, Xiang Li, Danhong Zhang, Yizhi Zhao, Pin Cheong Lim
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HF-020435	Vision-based Modeling of Human Behavior in Visual Inspection Process	Taichi Ishihara, Sehoon Oh, Yoichi Hori
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HF-020613	An Effective Control Technique for Medium-Voltage High Power Induction Motor Drives	Zhiqiao Wu, Gui-Jia Su
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HF-020753	Power Smoothing of Doubly Fed Induction Generator Wind Turbines	Michel Van Dessel, Geert Deconinck
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## Sensing Capability

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HF-021067	Table-based Scheduling Method for Distributed Demand Side Management	Toshihiko Handa, Akihiro Oda, Tomokazu Tachikawa, Yuji Watanabe, Junichi Ichimura, Hiroaki Nishi
HF-021091	Adoption of cast copper squirrel cages for small induction motors: considerations on a prototype	Luca Ferraris, Paolo Ferraris, Andrea Cavagnino Zhang Xiaotian, Zhang Hao, Guerrero Josep, Ma Xikui
HF-021105	Reactive Power Compensation for Parallel Inverters without Control Interconnections in Microgrid	Tatsuya Kobayashi, Tomoyuki Shimono, Kouhei Ohnishi
HF-021148	An Experimental Validation of Haptic Thrust Wire for Precise Flexible Actuation	M Jes's Díaz, Emilio Bueno, Ra'l Mateos, Francisco J Rodriguez, Eric Monmasson Karel Jezernik
HF-021156	FPGA Implementation of Harmonic Detector based on Second Order Generalized Integrators	Keiichi Taguchi, Kouhei Ohnishi Leonardo A. Serpa, Peter Steimer, Johann W. Kolar
HF-021164	Speed Sensorless Robust Torque Control of Induction Motor	Camilo Lozoya, Pau Marti, Manel Velasco, Josep M. Fuertes
HF-021245	A Bilateral Teleoperation Method Using an Autonomous Control Based on DFT Modal Decomposition	Christian Reinisch, Wolfgang Granzer, Fritz Praus, Wolfgang Kastner
HF-021253	Virtual-Flux Decoupling Hysteresis Control for the Five-Level ANPC Inverter Connected to the Grid	Tomoyuki Shimono, Kouhei Ohnishi Anant Agarwal, Qingchun Zhang, Al Burk, Robert Callanan, Sudip Mazumder
HF-021261	Analysis and design of networked control loops with synchronization at the actuation instants	Lotfi Mostefai, Mouloud Denai, Yoichi Hori Fabrizio Marignetti, Roberto Di Stefano, Yuri Coia
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HF-021458	Analysis of Axial Flux PM Machines Including Eddy Currents Rotor Core Losses	Mahmut Reyhanoglu Lotfi Charaabi, Eric Monmasson, ilhem-Slama Belkhdja
HF-021504	A Neural Networks-Based Method for Single-Phase Harmonic Content Identification	Lan Yu, Timothy Chang Puttiphong Jaroonsiriphan, Timothy Chang Tetsuya Asai, Seiichiro Katsura, Kiyoshi Ohishi Raed Alcharea, Reza Kianinezhad, Babak Nahid-Mobarakeh, Franck Betin, Gerard-Andre Capolino
HF-021539	A Study on Handling System for Cloth Using 3-D Vision Sensor	Mohd. Hasan Ali, Junji Tamura, Bin Wu
HF-021547	Reference Generation Techniques for Active Power Line Conditioners	Ivan Jorge Gabe, Humberto Pinheiro
HF-021717	A ZigBee-based network for home heating control	Amir Khoobroo, Babak Fahimi, Steven Pekarek Wataru Yamanouchi, Yuki Yokokura, Seiichiro Katsura, Kiyoshi Ohishi
HF-021733	Learning from Long-term and Multimodal Interaction between Human and Humanoid Robot	Amir Khoobroo, Mahesh Krishnamurthy, Babak Fahimi, Wei-Jen Lee Brian Grummel, Ryan McClure, Lei Zhou, Ali Gordon, Louis Chow, John Shen
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HF-022578	Development of laboratory prototype of a 12kVA digital shunt active filter	Jayanti Ng, Malabika Basu, Iurie Axente, Kevin Gaughan, Michael Conlon
HF-022616	A new configuration and control of doubly fed induction generator (UPQC-WG)	Jayanti Ng, Malabika Basu, Kevin Gaughan, Michael Conlon
HF-022624	Performance Assessment and Compensation for Secure Networked Control Systems	Rachana A Gupta, Mo-Yuen Chow
HF-022659	Review of Basic Guidelines when Designing Mixed PCBs for SI and EMI	María Teresa Sierra, Jaime Jiménez, Unai Bidarte, José Ignacio G-rate, Aitzol Zuloaga
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HF-022705	Grid Synchronization of Power Converters using Multiple Second Order Generalized Integrators	Pedro Rodriguez, Alvaro Luna, Ignacio Candela, Remus Teodorescu, Frede Blaabjerg
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