
Session Title	[PA-A4] Optimization and Design 2
Date and Time	June 19 (Monday) / 14:10-16:00
Place	Rm. 101 (1F)
Session Chair	Dianhai Zhang (Shenyang Univ. of Tech., China)

PA-A4-1 **Digest ID: 8**

Performance Analysis of Four Topologies of Ferrite Permanent Magnet Synchronous Generators for a Small Wind Energy Turbine

Kölzer, José Fabio; Bazzo, Thiago de Paula; Carlson, Renato; Sadowski, Nelson
 Universidade Federal de Santa Catarina, Brazil

PA-A4-2 **Digest ID: 575**

Robust Tolerance Design Optimization of a Claw Pole PM Motor with Soft Magnetic Composite Cores

MA, BO; Lei, Gang; Zhu, Jianguo; Guo, Youguang
 University of Technology Sydney, Australia

PA-A4-3 **Digest ID: 410**

Shape Design of a Rotor Bar for Improving Starting Torque And Running Efficiency in Squirrel Cage Induction Motor

Lee, Ha Jeong; Im, Sang Hyeon; Park, Gwan Soo
 Pusan National University, Korea, Republic of (South Korea)

PA-A4-4 **Digest ID: 159**

A Real Coded Vector Population-Based Incremental Learning for Multi-objective Optimizations of Electromagnetic Devices

Ho, S. L. (1); Yang, Shiyu (2)
 1: The Hong Kong Polytechnic University, Hong Kong; 2: Zhejiang University, China, People's Republic of

PA-A4-5 **Digest ID: 174**

Characteristics Investigation of a Variable Flux Magnetic-Geared Motor Using Mathematical and Numerical Methods

Niguchi, Noboru; Hirata, Katsuhiro; Kohara, Akira; Takahara, Kazuaki
 Osaka University, Japan

PA-A4-6 **Digest ID: 192**

Stable and Efficient Magnetic Field Optimization of 18 MeV Sector Focused Cyclotron Magnet Using Bezier Curve Fitting

Kim, Su-Hun (1); Kwak, Chang-Seob (2); Lee, Se-Hee (1)
 1: Kyungpook National University, Daegu, Republic of Korea; 2: Korea Electrotechnology Research Institute, Changwon, Republic of Korea

PA-A4-7

Withdrawn

PA-A4-8

Digest ID: 207

Analyzing and Weakening the Cogging Torque of Line-start Permanent Magnet Motor

Liu, Lin (1); Jing, Libing (1,2); Gao, Qixing (1); Luo, Zhenghao (1); Cheng, Jia (1); Lin, Ying (1); Zhang, Ting (1)
1: China Three Gorges University, China, People's Republic of; 2: Huazhong University of Science and Technology, Wuhan, China, People's Republic of

PA-A4-9

Digest ID: 213

Enhanced Meta-model Based Optimization under Constraints using Parallel Computations

El Bechari, Reda (1,2); Brisset, Stéphane (1); Clénet, Stéphane (1); Mipo, Jean-Claude (2)
1: Université Lille, Centrale Lille, Arts et Métiers ParisTech, HEI, EA 2697 - L2EP - Laboratoire d'Electrotechnique et d'Electronique de Puissance, F-59000 Lille, France; 2: Valeo Equipements Electriques Moteur, Créteil, France

PA-A4-10

Digest ID: 214

An Efficient Serial-Loop Strategy for Reliability-Based Robust Optimization of Electromagnetic Design Problems

Kim, Dong-Hun (1); Kang, Byungsu (1); Choi, K. K. (2)
1: Kyungpook National University, Korea, Republic of (South Korea); 2: Dept. of Mechanical and Industrial Eng., Univ. of Iowa, Iowa City, IA 52242-1527, USA

PA-A4-11

Withdrawn

PA-A4-12

Digest ID: 229

Topological Optimization Using Basis Functions for Improvement of Rotating Machine Performances

Sasaki, Hidenori; Igarashi, Hajime
Graduate School of Information Science and Technology, Hokkaido University, Japan

PA-A4-13

Digest ID: 236

Optimization of design parameters of a toroid HTS coil for large scale SMES

Lee, Ji-Young (1); Lee, Seyeon (2); Choi, Kyeongdal (2); Kim, Woo-Seok (2)
1: Institute for Basic Science, Korea, Republic of (South Korea); 2: Korea Polytechnic University, Korea, Republic of (South Korea)

PA-A4-14

Digest ID: 237

Topology Optimization Based on On/Off Method for Synchronous Motor

Watanabe, Kota; Suga, Takao; Kitabatake, Shinya
Muroran Institute of Technology, Japan

Electromagnetic Actuation Scheme for Steering MNPs with Aggregations at Multi-Channel Vessels

Kafash Hoshidar, Ali (1,2); Le, Tuan-Anh (1); Yoon, JungWon (1)

1: Gyeongsang National University, Korea, Republic of (South Korea); 2: Islamic Azad University, Qazvin Branch, Qazvin (Iran)