
Session Title [PB-M1] Optimization and Design 3

Date and Time June 20 (Tuesday) / 11:00-12:50

Place Rm. 101 (1F)

Session Chair So Noguchi (Hokkaido Univ., Japan)

PB-M1-1

Digest ID: 9

Cogging Torque Optimization of Flux Concentrated Transverse Flux PM Disk Generator by Skewing PM Poles

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PB-M1-2

Digest ID: 549

Optimal Design of Thinned Array by Using Hybrid Genetic Algorithm

Oh, hyun-su (1); Lee, Kang-in (2); Kim, Jong Mann (3); Chung, Young-seek (4)

1: Kwangwoon University, Korea, Republic of (South Korea); 2: Kwangwoon University, Korea, Republic of (South Korea); 3: Agency for Defense Development, Daejeon 34186, Korea,; 4: Kwangwoon University, Korea, Republic of (South Korea)

PB-M1-3

Digest ID: 187

Global Optimization of Electromagnetic Devices using Quantum Particle Swarm Optimization with Novel Methodology

Rehman, Obaid Ur; Yang, Shiyu; Khan, Shafiullah

Zhejiang University, China, People's Republic of

PB-M1-4

Digest ID: 193

A Kriging-Assisted Light Beam Search Method for Multiobjective Electromagnetic Inverse Problems

An, Siguang (1); Yang, Shiyu (2); Mohammed, Osama A. (3)

1: China Jiliang University, China, People's Republic of; 2: Zhejiang University, China, People's Republic of; 3: Florida International University, USA

PB-M1-5

Digest ID: 240

Iterative Kriging-based RBDO Methods for Expensive Black-Box Models

Deng, Siyang; El Bechari, Reda; Brisset, Stéphane; Clénet, Stéphane

Laboratoire d'Electrotechnique et d'Electronique de Puissance, France

PB-M1-6

Digest ID: 512

Influence of material and geometric parameters on the sensor based on active material

Trang, NGUYEN (1); Stéphane, CLENET (2)

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PB-M1-7

Digest ID: 244

Shape Optimization for the Magnetizing Fixture to Reduce the Torque Ripple of the Ring-type SPM Motor

Lim, Sunghoon (1); Min, Seungjae (2); Hong, Jung-Pyo (2)

1: Department of Mechanical Engineering and Science, Kyoto University, Kyoto, Japan; 2: Department of Automotive Engineering, Hanyang University, Seoul, Korea

PB-M1-8

Digest ID: 176

Field Analysis and Multi-objective Design Optimization of E-Core Transverse-Flux Permanent Magnet Linear Motor

Fu, Dongshan; Xu, Yanliang

Shandong University, China, People's Republic of

PB-M1-9

Digest ID: 256

Shape Optimization of Deposited Layer Produced by Combined Cladding Process

Kotlan, Vaclav; Panek, David; Hamar, Roman; Dolezel, Ivo

University of West Bohemia, Czech Republic

PB-M1-10

Digest ID: 712

Incorporating Control Strategies into the Optimization of Synchronous AC Machines: A Comparison of Methodologies

Mohammadi, Mohammad; Silva, Rodrigo; Lowther, David

McGill University, Canada

PB-M1-11

Digest ID: 632

Performance of Quasi-Newton Method for Estimation of Relative Permittivity in 1-D Inverse Scattering Problem

Tsuburaya, Tomonori (1); Meng, Zhiqi (1); Okamoto, Yoshifumi (2); Wakao, Shinji (3)

1: Fukuoka University, Japan; 2: Hosei University, Japan; 3: Waseda University, Japan

PB-M1-12

Digest ID: 289

Pole Shape Optimization for Radiation Resistant Quadrupole Magnets of the SIS-100 Accelerator

Kalimov, Alexander (1); Leibrock, Hanno (2); Muehle, Carsten (2); Nalimov, Pavel (1)

1: St. Petersburg State Polytechnic University, Russian Federation; 2: GSI Helmholtzzentrum für Schwerionenforschung, Germany

PB-M1-13

Digest ID: 302

Distributed Cooperative Particle Swarm Optimization Algorithm For Electromagnetic Mechanisms Optimization

Xuerong, Ye (1); Hao, Chen (1); Huimin, Liang (1); Xinjun, Chen (2); Jiaxin, You (1)

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PB-M1-14

Digest ID: 319

Design, Analysis and Experimental Validation of Permanent Magnet Synchronous Motor for Articulated Robot Applications

Hong, Do-Kwan (1,2); Hwang, Wook (2); Lee, Ji-Young (1,2); Woo, Byung-Chul (2); Kang, Do-Hyun (2)
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