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<th>Session Title</th>
<th>[PA-M2] Optimization and Design 1</th>
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<td>Date and Time</td>
<td>June 19 (Monday) / 11:00-12:50</td>
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<td>Place</td>
<td>Rm. 102 (1F)</td>
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<td>Session Chair</td>
<td>Zhuoxiang Ren (Université Pierre et Marie CURIE, France)</td>
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**PA-M2-1**
Digest ID: 3

**Electromagnetic Wave Travel Time in Biological Tissue for Imaging**
Yang, Dan; Xu, Bin; Wang, Xu; Luan, Feng; Zhang, Dianhai
Northeastern University, China, People's Republic of

**PA-M2-2**
Digest ID: 74

**Design Optimization of A Novel Scale-Down Hybrid-Excited Dual-PM Generator for Direct-Drive Wind Power Application**
Wang, Qingsong (1); Niu, Shuangxia (1); Yang, Lin (2)
1: The Hong Kong Polytechnic University, Hong Kong S.A.R. (China); 2: State Power Economic Research Institute, Beijing, China

**PA-M2-3**
Digest ID: 88

**Electromagnetic Field Characteristic Analysis of Interior Permanent Magnet Motor considering Operating Conditions**
Lee, Do-Jae; Park, Yu-Seop
Korean National University of Transportation, Korea, Republic of (South Korea)

**PA-M2-4**
Digest ID: 95

**Influence of Die Cast Rotor Fill Factor on the Starting Performance of Induction Machines**
Yun, Jangho (1,2); Lee, Sungho (2); Jeong, Myung (1); Lee, Sang Bin (1)
1: Korea University, Korea, Republic of (South Korea); 2: Hyundai Heavy Industries, Korea, Republic of (South Korea)

**PA-M2-5**
Digest ID: 107

**Analysis of Magneto-Mechanical Jiles-Atherton-Sablik Model Regarding its Sensitivity to Non-linear Algorithm Parametrization**
Mailhé, Benjamin Joseph; Bernard, Laurent; Sadowski, Nelson; Batistela, Nelson Jhoe; Bastos, João Pedro Assumpção
GRUCAD - Universidade Federal de Santa Catarina, Brazil

**PA-M2-6**
Digest ID: 120

**Distribution characteristic and combined optimization of maximum cogging torque of surface mounted few slots permanent-magnet machines**
Jin, Ping (1); Guo, Yujing (1); Fang, Shuhua (2); Lin, Heyun (2); Yang, Hui (2)
1: Hohai University, China, People's Republic of; 2: Southeast University, China, People's Republic of
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<td>1: Changwon National University, Korea, Republic of (South Korea); 2: S&amp;T Motiv, Motor R&amp;D Center, Korea, Republic of (South Korea)</td>
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<td>1: Hanyang University, Korea, Republic of (South Korea); 2: Hyundai Wia, Korea, Republic of (South Korea)</td>
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<td>A Wind Driven Optimization Algorithm for Global Optimization of Electromagnetic Devices</td>
<td>Ho, S. L. (1); Yang, Shiyou (2)</td>
<td>1: The Hong Kong Polytechnic University, Hong Kong; 2: Zhejiang University, China, People's Republic of</td>
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<td>Multi-Objective Synthesis of NFC-Transponder Systems based on PEEC Method</td>
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<td>1: Institute of Fundamentals and Theory in Electrical Engineering, Graz University of Technology, Austria; 2: Institute of Automotive Engineering, Graz University of Technology, Austria; 3: Dipartimento di Ingegneria Industriale, Universita degli Studi di</td>
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<td>Design of Surface-Mounted Permanent Magnet Vernier Machines Considering Harmonic Characteristics of Winding MMF</td>
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<td>Dona-A University, Korea, Republic of (South Korea)</td>
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<td>1: Peter the Great St. Petersburg Polytechnic University, Russian Federation; 2: Peter the Great St. Petersburg Polytechnic University, Russian Federation; 3: Pskovelectrosvar – a producer of high power welding machines, Pskov, Russian Federation</td>
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<td>Tunable Waveguide Filter Design using Topology optimization based on the ON/OFF method</td>
<td>Shin, Hyundo (1); Yoo, Jeonghoon (2)</td>
<td>1: Graduate School of Mechanical Engineering, Yonsei University; 2: School of Mechanical Engineering, Yonsei University</td>
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Study on Surface Charge Distribution Characteristics on surface of Dielectric under Negative Corona in Sphere-plane Gaps

Du, Zhiye; Huang, Congpeng; Lian, Qixiang; Ruan, Jiangjun; Yuan, Jiaxin
Wuhan University, China, People's Republic of