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<b>Session Title</b>	<b>[PD-M3] Optimization and Design 9</b>
<b>Date and Time</b>	<b>June 22 (Thursday) / 11:00-12:50</b>
<b>Place</b>	<b>Rm. 103 (1F)</b>
<b>Session Chair</b>	<b>Byungtak Kim (Kunsan Nat'l Univ., Korea)</b>

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**PD-M3-1**

**Withdrawn**

**PD-M3-2**

**Digest ID: 776**

**A Novel Hybrid Algorithm of Black Hole and Differential Evolution for High Dimensional Electromagnetic Optimal Problems**

Ren, Ziyang (1); He, Siying (1); Zhang, Dianhai (1); Koh, Chang-Seop (2)  
1: Shenyang University of Technology, China; 2: Chungbuk National University, Korea, Republic of (South Korea)

**PD-M3-3**

**Digest ID: 251**

**DC Current Control Method of Current Superimposition Variable Flux Reluctance Machine**

Kohara, Akira; Hirata, Katsuhiko; Niguchi, Noboru  
Osaka university, Japan

**PD-M3-4**

**Withdrawn**

**PD-M3-5**

**Digest ID: 703**

**Modeling of Return Strokes with Their Initiation Processes under Consideration**

Zhou, Mi (1); Wang, Jianguo (1); Wang, Daohong (2); Fan, Yadong (1)  
1: Wuhan University, China, People's Republic of; 2: Department of Electrical, Electronic and Computer Engineering, Gifu University

**PD-M3-6**

**Digest ID: 713**

**Automated Design of Rotor Topology for Synchronous Reluctance Machines considering Motor Control Strategies**

Mohammadi, Mohammad; Li, Min; Silva, Rodrigo; Lowther, David  
McGill University, Canada

**PD-M3-7**

**Digest ID: 719**

**Analytical Modeling of Switched Flux Memory Machine**

Yang, Hui; Lin, Heyun; Wang, Haitao; Li, Yibo; Fang, Shuhua; Huang, Yunkai  
Southeast University, China, People's Republic of

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**PD-M3-8**

**Digest ID: 727**

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**Investigation of the forces acting on the coils of a Modular Slotless Permanent Magnet Generator**

Kallaste, Ants (1); Vaimann, Toomas (1,2); Rassõlkin, Anton (1); Belahcen, Anouar (1,2)  
1: Tallinn University of Technology, Estonia; 2: Aalto University, Finland

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**PD-M3-9**

**Digest ID: 738**

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**Design of an Axial Flux Permanent Synchronous Motor with Segmented Cores**

Hwang, Nae-Won (1); Jung, Hyun-Kyo (2); Woo, Dong-Kyun (1)  
1: Yeungnam University, Korea, Republic of (South Korea); 2: Seoul National University, Korea, Republic of (South Korea)

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**PD-M3-10**

**Digest ID: 743**

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**Taguchi Robust Design Optimization for Water Cooled ISG Considering Temperature Distribution and Manufacturing Tolerance**

Kim, Kyu-Seob (1); Lee, Byeong-Hwa (1); Lee, Bong-Hyun (1); Jung, Jae-Woo (2); Hong, Jung-Pyo (3)  
1: KATECH, Korea, Republic of (South Korea); 2: Hyundai Mobis, Korea, Republic of (South Korea); 3: Hanyang University, Korea, Republic of (South Korea)

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**PD-M3-11**

**Digest ID: 751**

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**Halbach Array Permanent Magnet Tubular Linear Generator for Direct-Driver Wave Energy Conversion**

Liu, Chunyuan (1); Liu, Qiang (2); Zhu, He (1)  
1: College of Mechanical and Electrical Engineering, Jiaying University, Jiaying, People's Republic of China; 2: Department of Electrical Engineering, Jiangsu Maritime Institute, People's Republic of China

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**PD-M3-12**

**Digest ID: 755**

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**A New Multimodal Robust Optimization for Cogging Torque Reduction of Interior Permanent Magnet Motor**

Park, Hyeon-Jeong (1); Yeo, Han-Kyeol (1); Jung, Hyun-Kyo (1); Jung, Sang-Yong (2); Ro, Jong-Suk (3)  
1: Department of Electrical and Computer Engineering, Seoul National University, Seoul, Korea; 2: School of Electronic and Electrical Engineering, Sungkyunkwan University, Suwon, Korea; 3: School of Electrical and Electronics Engineering, Chung-Ang Univer

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**PD-M3-13**

**Digest ID: 771**

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**Core Loss Analysis of Permanent Magnet Linear Synchronous Generator Considering the 3-D Flux Path**

Kim, Chang-Woo; Kim, Jeong-Man; Seo, Sung-Won; Ahn, Ji-Hun; Choi, Jang-Young  
Department of Electrical Engineering, Chungnam National University, 99 Daehak-ro, Yuseong-gu, Daejeon 305-764, Korea

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**PD-M3-14**

**Digest ID: 774**

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**Robust Optimization for Reducing Cogging Torque of Permanent Magnet Motor with Static Analysis Assisted Technique.**

Lee, Jae-Gil (1); Lim, Dong-Kuk (1); Jung, Hyun-Kyo (1); Jung, Sang-Yong (2); Woo, Dong-Kyun (3)  
1: Seoul National University, Korea, Republic of (South Korea); 2: Sungkyunkwan University, Suwon, Republic of (South Korea); 3: Yeungnam University, Gyeongbuk, Republic of (South Korea)