COMPUMAG

15th Conference on the Computation of Electromagnetic Fields

June 26-30, 2005
Shenyang, China

RECORD OF THE 15TH COMPUMAG CONFERENCE
ON THE COMPUTATION OF ELECTROMAGNETIC FIELDS
VOLUME 4/4: Thursday, June 30
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VOLUME 4/4: Thursday, June 30
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Optimization VI
Prof. Shinji Wakao, Japan
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IV-164 Yueqiang Liu, Paulo Sousa Jr., Ener Salinas, Pedro Cruz, Jaap Daalder
Chalmers University of Technology  Sweden

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Using the Cone of Efficient Directions Algorithm Coupled with the
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IV-166 Adriano Chaves Lisboa, Douglas Alexandre Gomes Vieira,
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Ricardo Hiroshi Caldeira Takahashi
Universidade Federal de Minas Gerais  Brazil

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Chalmers University of Technology  Sweden

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H. Chetouani, F. Wurtz, G. Reyne, H. Rostaing, B. Delinchant  
*Laboratoire d'électrotechnique de Grenoble*

### PH3-8
**Optimization of Eddy Current Brake Based on Finite Element Techniques**
K. Tatis, A. Kladas, J. Tegopoulos  
*National Technical University of Athens*

### PH3-9
**Design of Harmonic Rejection Microstrip Low-Pass Filter with Defected-Ground Using Finite-Difference Time-Domain and Optimization Algorithms**
Ming-Sze Tong, Myeong-Su Kang, Myeong-Sub Jung, Jun-Seok Park, Hyeong-Seok Kim  
*Chung-Ang University*

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**Optimal Design of Slotless-type PMLSM Considering Multiple Responses by Response Surface Methodology**
Sung-Il Kim, Jung-Pyo Hong, Young-Kyoun Kim, Hyuk Nam, Han-Ik Cho  
*Changwon National University*

### PH3-11
**Further Advances in Applying Continuum Design Sensitivity Analysis in Combination with Commercial Electromagnetic Software to Aid Design Optimization**
Dong-Hun Kim, Jan K. Sykulski, David Lowther, Jong-Woo Choi, Tae-Young Kim  
*Kyungpook National University*

### PH3-12
**Superconducting Motor Design using 3D Analysis Model and Response Surface Methodology**
Ji-Young Lee, Sung-Il Kim, Jung-Pyo Hong, Seung-Kyu Jeong  
*Changwon National University*

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**Poster Session PH4:**
**Numerical Techniques VII, Education**
*June 30 Thursday 13:30-15:10*

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Erich Schmidt, Herbert De Gersem, Thomas Weiland
Technische Universität Wien

\textbf{OH-2} FEM Vibration Analysis of a Doubly-Fed Twin Stator Cage Induction Generator
R. Carlson, F. Rünco, A.M. Oliveira, P. Kuo-Peng, N. Sadowski
GRUCAD-UFSC

\textbf{OH-3} A Magneto-thermal Study of a High Speed Synchronous Reluctance Machine
M.I. Lamghari-Jamal, M.E. Zaim, J. Fouladgar, D. Trichet
Institut de Recherche en Electronique et Electrotechnique de Nantes Atlantique

\textbf{OH-4} Dynamic Analysis of Toroidal Winding Switched Reluctance Motor driven by Full Bridge Inverter
Ji-Young Lee, Tao Sun, Jung-Pyo Hong, Woo-Taik Lee
Changwon National University

\textbf{OH-5} The Current Transport Mechanism of Transparent Anode and Its Optimal Design
Cailin Wang, Yong Gao
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