

### Poster Session III – Analytical and numerical methods. Inverse problems

Wednesday, June 16, 2010, 08:10 – 09:30

- PS3/1** Krzysztof Stawicki, Stanisław Gratkowski, “*Frequency Analysis with Fourier Transform of the Excitation Signal in Electro-Magneto-Acoustic Transducer (EMAT)*” (129)
- PS3/2** Marcin Ziolkowski, Stanisław Gratkowski, “*Electromagnetic-Acoustic Transducers Modeling in Time Domain Using the Finite Element Method*” (130)
- PS3/3** Chiara Zorni, Christophe Reboud, Marc Lambert, Jean-Marc Decitre, “*Eddy Current Testing of Ferromagnetic Materials: Modelling of Multiple Flaws in a Planar Stratified Medium*” (131)
- PS3/4** Hassane Mohellebi, Ferroudja Bouali, Mouloud Feliachi, “*Use of a Half-Analytical Method for the Detection of Defects in Diet Pulses*” (133)
- PS3/5** Xiaomin Xue, Sun Qing, Zhang Ling, “*Study on Mechanical Model of Magnetorheological Damper and Its Parameter Identification Using Genetic Algorithm*” (136)
- PS3/6** Jeremy S. Knopp, John Aldrin, Mark Blodgett, “*Efficient Propagation of Uncertainty in Simulations via the Probabilistic Collocation Method*” (137)
- PS3/7** Theodoros Theodoulidis, “*Arbitrary Shape Coils for Eddy Current Testing Simulations*” (139)
- PS3/8** Denis Premel, C. Zorni, B. Marchand, G. Pichenot, “*Computation of the Magnetic Field Due to a Defect Embedded in a Planar Stratified Media: Application to AC Field Measurement Techniques*” (140)
- PS3/9** Piotr Baniukiewicz, Ryszard Sikora, “*Automatic Detection and Identification of Image Quality Indicators in Radiograms*” (142)
- PS3/10** Cuixiang Pei, Kaziuki Demachi, Mitsuru Uesaka, “*Numerical Simulation of Acoustoelastic Effect in Pre-stressed Media*” (143)
- PS3/11** Paweł Wieleba, Jan Sikora, “*BEMLAB – Universal Open Source Boundary Element Method Library Applied in Micro Electro-Mechanical Systems*” (145)
- PS3/12** Tomasz Chady, Jacek Kowalczyk, Leon Nawos-Wysocki, Grzegorz Psuj, Ireneusz Spychalski, “*PLL Based Eddy Current Measuring System for Inspection of Outer Flaw in Titanium Alloy Plate*” (147)
- PS3/13** Tomasz Chady, Lech Napierała, “*Feedback Algorithm for Crack Simulation*” (148)
- PS3/14** Ammar Hamel, Hassane Mohellebi, Mouloud Feliachi, “*Imperialist Competitive Algorithm Applied to Eddy Currents Nondestructive Evaluation*” (149)
- PS3/15** Tommy Henriksson, Marc Lambert, Dominique Lesselier, “*Music-Type Algorithm for Eddy-Current Nondestructive Evaluation of Small Defects in Metal Plates*” (151)
- PS3/16** Jinyi Lee, Jiseong Hwang, Seokjin Kwon, Yongkyu Oh, Shin Kisu, “*Crack Recognition Algorithm of the Express Train Wheel Using a Scan-Type Magnetic Camera*” (153)
- PS3/17** Sofiane Khedimallah, B. Nekhou, L. Boufenneche, M. Chouki, “*Study and Optimization of Domestic Powerline Communication Systems by Improvement Transfer Function*” (155)
- PS3/18** Valery Chrisanov, “*Electromagnetic Transient Analysis of the Cage Induction Motor Start Up*” (157)
- PS3/19** Wojciech Chlewicki, Piotr Baniukiewicz, Tomasz Chady, Andrzej Brykalski, “*Identification of Defects in 3D Space Using Computer Radiography System*” (159)
- PS3/20** W. Sharatchandra Singh, P.B.C. Rao, S. Mahadevan, T. Jayakumar, Baldev Raj, “*GMR Sensor Based Magnetic Flux Leakage Technique for Inspection of Track Ropes*” (160)
- PS1/21** Ryszard Sikora, Tomasz Chady, Marcin Caryk, Piotr Baniukiewicz, Przemysław Łopato, Lech Napierała, Tomasz Pietruszewicz, “*Conception of Industrial System of Automatic Radiograms Analysis*” (162)