

Session H1 - Transformers, motors, actuators and other power applications I  
*Monday, September 7*

- H1-01** Influence of magnetic materials on claw pole machines behavior  
*L. Li, A. Kedous-Lebouc, A. Foggia, J.C. Mipo*
- H1-02** Photoacoustic spectroscopy of surface-dressed magnetic nanoparticles for transformer applications  
*Paulo C. Morais, Anailde S. Silva, Eliane S. Leite, Vijayendra K. Garg, Aderbal C. Oliveira, Weslye R. Viali, Patrícia P.P. Sartoratto*
- H1-03** Derating of distribution transformers under non-sinusoidal supply voltages and unbalanced non-linear loads  
*Jawad Faiz, Ashkan Farazmand, Bashir Mahdi Ebrahimi*
- H1-04** Extended flux tubes method for calculation of the flux densities waveforms in various sections of a switched reluctance motor  
*Mojtaba Babaie, Jawad Faiz, Bashir Mahdi Ebrahimi, Maryam Bahramgiri*
- H1-05** Analysis and design of a novel axial flux PM motor with SMC cores for pump applications  
*Mauro Andriollo, Manuel De Bortoli, Giovanni Martinelli, Augusto Morini, Andrea Tortella, Massimo Furlan*
- H1-06** Harmonic reduction in a inverter-fed wound toroidal core through the selective harmonic elimination technique  
*Nedim Tutkun, Mehmet Ibrahimbas, Fevzi Arslan*
- H1-07** Electromagnetic actuator to reduce vibration sources  
*Thibaut Chailloux, Laurent Morel, Fabien Sixdenier, Olivier Garrigues*
- H1-08** Inrush current modeling in a single-phase transformer  
*Jawad Faiz, S. Saffari*
- H1-09** Prevention of iron core saturation in multi-winding transformers for DC-DC converters  
*Gorazd Štumberger, Beno Klopčič, Klemen Deželak, Drago Dolinar*
- H1-10** Precision study of leakage inductance in a transverse flux permanent magnet generator by 3D finite element transient analysis  
*Seyed Mohsen Hosseini, Javad S. Moghani*
- H1-11** Novel algorithm for calculation of losses in nonlinear core of three phase power transformers  
*Seyed Ali Mousavi, Hossein Mohseni, Amir A. Shayegani Akmal*

- H1-12** A new magnetic oscillation-type dc-ac power converter using bridge-connected magnetic circuit  
*Shinichi Okanuma, Yoshitomo Ogata*
- H1-14** Losses in sensorless controlled permanent-magnet synchronous machines  
*Peter Sergeant, Frederik De Belie, Luc Dupré*
- H1-15** Introduction of flux barriers and permanent magnets in induction motor geometries - magnetic field and iron loss analysis  
*Tine Marčič, Bojan Štumberger, Gorazd Štumberger, Peter Virtič, Peter Pišek*
- H1-16** Flux distribution analysis in three phase Si-Fe wound transformer cores  
*G. Loizos, T.D. Kefalas, A.G. Kladas, A.T. Souflaris*
- H1-17** Common mode transformers requirements for active EMI filters in induction motor drives  
*Maria Carmela Di Piazza, Antonella Ragusa, Gianpaolo Vitale*
- H1-18** Effects of dc-magnetization components on the three-dimensional loss distribution of transformer cores  
*Edin Mulasalihovic, Helmut Pfützner*
- H1-19** Impact of anisotropy on flux distributions in transformer cores  
*Edin Mulasalihovic, Helmut Pfützner*
- H1-21** Experimental study of the magnetic properties in a double star induction machine under distorted magnetization  
*T. Hamdouche, H. Hammache, D. Moussaoui, K. Marouani*