

WEMDCD'2019 Final Program	
MONDAY APRIL 22, 2019	
8:00	Registration opening
9:00-9:15	Workshop opening (Ceremony Room, Central Administration Building at Zografou Campus of NTUA)
9:15-10:00	Keynote Speech - Current Trends for Electric Traction Motors, Konstantinos Laskaris, USA
Electrical Machines Design - Session 1 – Session Chair: M. Hofer, Austria	
10:00-10:30	WD-000205 - Necessary Condition for Development of High Efficiency, High Density and High Speed Motor - Masato Enokizono, Japan
10:30-11:00	Coffee Break
11:00-11:30	WD-000566 - Additive Manufacturing in Construction of Electrical Machines – A Review - Rafal Wrobel, UK
11:30-12:00	WD-000809 - Magnetic Bearing Technology for Industrial Bearingless Motor Systems - Eric L. Severson - USA
12:00-14:00	Lunch
Electrical Machines Control - Session 1 – Session Chair: M. Enokizono, Japan	
14:00-14:30	WD-000841 - Adaptive Predictive Control of Induction Motors with On Line Parameter Estimation Using a Modified Genetic Algorithm - Dimitrios Raptis, Greece
14:30-15:00	WD-000469 - Post-Fault Compensation Control Strategy for Multi-Three-Phase PMSM under Open-Circuit and Short-Circuit Condition - Azlia Abdul Rahman, UK
15:00-15:30	WD-000981 - Position Control of Boom Crane via DC-driven Guy Line - Panos Papageorgiou, Greece
15:30-16:00	Coffee Break
Electrical Machines Diagnosis/Prognosis - Session 1 – Session Chair: V. Fireteanu, Romania	
16:00-16:30	WD-000515 - Monitoring and Diagnostics of Electrical Machines and Drives: a State of the Art - Lucia Frosini, Italy
16:30-17:00	WD-000965 – Experimentally Validated Model of a fast Switched Salient Pole Rotor Winding - Roberto Felicetti, Sweden
17:00-17:30	WD-000833 - Diagnosis of Defective Hall-effect Position Sensors in Brushless DC Motor Drives - Epaminondas Mitronikas, Greece
20:00-23:00	Social Dinner (President Hotel)

TUESDAY APRIL 23, 2019	
Electrical Machines Diagnosis/Prognosis - Session 2 – Session Chair: E. Mitronikas, Greece	
10:00-10:30	WD-001058 - State of the Art on Stray Flux Analysis in Faulted Electrical Machines - Gérard-André Capolino, France
10:30-11:00	Coffee Break
11:00-11:30	WD-000213 - Diagnosis of Incipient Bearing Faults using Convolutional Neural Networks - Arild Husebø, Norway
11:30-12:00	WD-000523 - Investigation of Static Angular and Axis Misalignment in an AFPM Generator - Alexandra Barmpatza, Greece
12:00-14:00	Lunch
Electrical Machines Design - Session 2 – Session Chair: E. Severson, USA	
14:00-14:30	WD-000221 - Reliability vs. Performances of Electrical Machines: Partial Discharges Issue - Vincenzo Madonna, UK
14:30-15:00	WD-000299 - Causes and effects of geometric deviation in magnetic gears - Alexandros Leontaritis, UK
15:00-15:30	WD-000434 - Operational Enhancement of Electric Drives by Advanced Cooling Technologies - Benedikt Groschup, Germany
15:30-16:00	Coffee Break
Electrical Machines for Transportation - Session 1 – Session Chair: R. Wrobel, UK	
16:00-16:30	WD-000191 - Temperature Dependence of Partial Discharge in Low Voltage Traction Drives - Florian Pauli, Germany
16:30-17:00	WD-000361 - An innovative slot cooling for integrated electric drives - Michela Diana, Italy
17:00-17:30	WD-001031 - Designing High Power Density In-Wheel PMSM for Sustainable Hybrid Electric Vehicles - Ioannis Chasiotis, Greece

POSTER SESSION - Displayed during all the conference	
Electrical Machines Design (9 papers)	
WD-000248 - Reduced Order Lumped Parameter Thermal Network for Dual Three-Phase Permanent Magnet Machine - Vincenzo Madonna, UK	
WD-001023 - Comparison of alternate LSPMSM Topologies considering both Transient and Steady-State operating characteristics - Maria Sofia Pechlivanidou, Greece	
WD-000868 - Asymmetrical Flux Density Distribution in Stator Teeth of Surface Permanent Magnet Machines - Daniele De Gaetano, UK	
WD-000558 - Topology optimization of a nonlinear electromagnetic actuator based on a local importance measure - Shabnam Ruzbehi, Germany	
WD-000159 - Steady-state Performance Analysis of Direct-On-Line Cylindrical Wound-Rotor Synchronous Motor - Mkhululi Mabhula, South Africa	
WD-000825 - Eddy Current Loss Control in High Speed PM Starter-Generator - Xiaochen Zhang, UK	
WD-001015 - Scalable abc-Modelling of Permanent Magnet Synchronous Machines for Model Order Reduction - Maria Raluca Raia, Romania	
WD-000817 - A Multi-Criteria Design Method of Line-Start PMSM with Enhanced Start-Up Capability for Gantry Crane Lifting System - Ioannis Chasiotis, Greece	
WD-000396 - An Efficiency Analysis of a Salient Pole and a Flux Barrier Synchronous Reluctance Machine including Flux Weakening - Matthias Hofer, Austria	
Electrical Machines Control (3 papers)	
WD-000795 - Emulation of an Electromechanical System with Bearing Dynamics - Ioannis Dermentzoglou, Greece	
WD-000531 - Prediction of System Voltage Recovery due to Single Phase Induction Motor Stall Using Machine Learning Techniques - Soleiman Rahmani, Canada	
WD-001007 - Observer-based method for identification of doubly fed induction machine - Hoang-Giang Vu, Vietnam	
Electrical Machines Diagnosis/Prognosis (2 papers)	
WD-000973 - Operational Limits of a Large Hydro Generator with Bypassed Coils and Circuits - Arezki Mekhruf, Canada	
WD-000256 - Finite Element 2D and 3D Models of a Rotor Bar Breakage and Broken Bar Faults in the Squirrel Cage Induction Motors - Virgiliu Fireteanu, Romania	
Electrical Machines for Transportation (1 paper)	
WD-000353 - Fault Tolerance in an Active Suspension System with a Linear Permanent Magnet Actuator for Automotive Applications - Christos Mademlis, Greece	