



IEEE SPOT 2011 Student Conference

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15th of December 2011

Fibigerstræde 16 Room 1-101 and Room 1-108, Aalborg University (AAU), Denmark

8:15: Start

8:00-8:30: Registration: name tags,

Electrical sessions Fib 16(1-101: lecture theater-auditorium)	Thermal and Miscellaneous sessions 1-108(seminar room)
<p>8:30-8:50: Opening session</p>	<p>8:30-8:50: Opening session</p>
<p>Welcome by <u>Krisztina Leban</u>: AAU- IET, IEEE Student Branch;</p> <p>Key note speaker: <u>Birgitte Bak-Jensen</u>: AAU-IET 'Energy Systems of the Future'</p>	<p>Welcome by <u>Benoit Bidoggia</u>: AAU- IET</p> <p>Key note speaker: Lasse Rosendahl AAU-IET; Energy Sponsor Program</p>
<p>Session Chair: Lorand Bede</p> <p>9:00- 10:10 Presentation set E. 1 (4 presentations)</p> <p>P1(9:00-9:15): <i>Integration of Alternative Motor Current Measurement Technologies</i> - Egoitz Toledo Irazu, Ander Biguri, Jorge Cortés Gonzalez</p> <p>P2(9:15-9:30): <i>Operational Control of Power Systems under Emergency Situations</i> - Artjoms Timofejevs</p> <p>P3(9:30-9:45): <i>Design of Telephone Control System of Intelligent Household Appliances</i> - Zheyuan Hu</p> <p>P4(9:45-10:00): <i>A Case Study of Issues with Pico-hydro Control in Nepal</i> - Rakesh Sinha</p> <p><i>Time buffer 10:00-10:10</i></p>	<p>Session Chair: Shaojun Huang</p> <p>9:00- 10:10 Presentation set TM. 1(4 presentations)</p> <p>P1(9:00-9:15): <i>Calculation model for heat recovery in grain dryers based on energy analysis</i> - Michael Skou, Ersan Gürler</p> <p>P2(9:15-9:30): <i>A drilling fluid: the mud</i> - Céline Lelandais, Carole Berthet</p> <p>P3(9:30-9:45): <i>Study of the alternative fuels instead of the traditional</i> - Eider Usar Recarte</p> <p>P4(9:45-10:00): <i>Topological model of graphene sheets</i> - Ionela Grigoras</p> <p><i>Time buffer 10:00-10:10</i></p>
<p>10:10-10:30 Coffee Break</p>	
<p>Session Chair: Rakesh Sinha</p> <p>10:30- 12:00 Presentation set E. 2 (5 presentations)</p> <p>P1(10:30-10:45): <i>Several Practices of Microgrid in China</i> - Shaojun Huang</p> <p>P2(10:45-11:00): <i>Hybrid Energy System Sizing and a Simple Prediction of Battery System Charge Level</i> - Derneksis Triantafylos</p> <p>P3(11:00-11:15): <i>Comparison of the Impact of New Technology Switching Devices on the Efficiency of PV Inverters</i> - Ovidiu Nicolae Faur, Bogdan Ioan Incău</p>	<p>Session Chair: Daniel Gamboa</p> <p>10:30- 12:00 Presentation set TM. 2 (n presentations)</p> <p>P1(10:30-10:45): <i>Waste Heat Recovery in Brake Pad using a Thermoelectric Generator</i> - René Haller Schultz, Thomas Helmer Pedersen, Troels Bartholin Bertelsen</p> <p>P2(10:45-11:00): <i>Project Optimal Steam Turbine setup for CSP Tower</i> - Romain Lhomer, Jérôme Corso</p> <p>P3(11:00-11:15): <i>Investigation on how to obtain reliable experimental data in a biological waste water process</i></p>

<p>P4(11:15-11:30): <i>Issues concerning the connection of unstable power sources to the low voltage grid</i> - Broczkowski Michal, Chmielewski Artur, Radecki Przemyslaw, Szczesny Ireneusz</p> <p>P5(11:30-11:45): <i>Control of a Wind Turbine with Grid Support Functions</i> - Remus Beres, Catalin Ciontea</p> <p><i>Time buffer 11:45-12:00</i></p>	<p><i>tank</i> - Morten Aalbæk Kristensen</p> <p>P4(11:15-11:30): <i>Supervisor Control of 4 WD Vehicles</i> - Daniel Giardiná, Filippo Zaniboni, Yasmina Kerrouzi</p> <p>P5(11:30-11:45): <i>Testing of Etronit IS dielectric material</i> - Alberto Palomar Lozano, Bjarni Helgi Thorsteinsson</p> <p><i>Time buffer 11:45-12:00</i></p>
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12:00-13:00 Lunch Break

<p>Session Chair: Zheyuan Hu</p> <p>13:00- 13:30 Presentation set E. 3 (3 presentations)</p> <p>P1(13:00-13:15): <i>Control and Reliability of 10 MW Multilevel Wind Power Converter</i> - Andrea Isidori, Fabio Mario Rossi</p> <p>P2(13:15-13:30): <i>Study of the performance of the embedded processors on NIOS FPGA platforms</i> - Lucille Senn</p>	<p>Session Chair: Artjoms Timofejevs</p> <p>13:00- 14:00 Presentation set TM. 3 (n presentations)</p> <p>P1(13:00-13:15): <i>Current Correction Temperature Control for Indirect Methanol Fuel Cell Systems</i> - Kristian Kjær Justesen, Mikkel Præsthholm Ehmsen, John Andersen</p> <p>P2(13:15-13:30): <i>Injection of Biogas into the Natural Gas Grid in Netherland</i> - Pablo Herrero Solsona, Hugo Stoeffler</p>
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13:30-14:00 Coffee Break

14:00-16:15 Poster session

1. *Laminar flow around a circular cylinder* - Group 700
2. *Closed Loop Brake-Sequence Control For Wind Turbine Applications* - Group 720
3. *Trajectory Control of a Hydraulic Planar Elbow Servo Robot* - Group 721
4. *Nonlinear Modeling of Synchronous Generator for Wind Turbines* - Group 730
5. *Experimental Evaluation of an Integrated Charger for EV's using PMSM Windings as Boost Inductors* - Group 740
6. *Influence of PV generation on voltage levels in distribution grids* - Emanuel-Petre Eni, Viorel Gradea
7. *Modeling of a Micro-Grid with Windpower where a Gas turbine is used for frequency control* – Jorge Escribano Jiménez, Sandra Iren Haug, Karl Eide Pollestand
8. *Implementing of MS15 DC Motor Control Module by Using PLC S7-300* - Mustafa Erkec, Arsalan Zaidi
9. *Alive vacuum cleaner* - Iratxe Ortega
10. *Solar Panels Controller for Heated Pool* - Eloy Rodríguez Moldes
11. *Control of a two-wheeled inverted pendulum like robot* - CsabaKopacz, Lóránd Bede
12. *Application of inertial sensors in control of inverted pendulum-like systems* - CsabaKopacz, Lóránd Bede
13. *Modelling and Simulation of a Squirrel Cage Induction Generator Wind Turbine* - Daniel Gamboa
14. *Modelling and Simulation of a Solar Cell using Matlab/Simulink* – Dumitru-Traian-Cosmin Angheluş, Judit Baños Garcia, Laura Nicola
15. *Scalar control and synchronous machine simulation based on graphical design on Simulink* – Gheorghiu Csaba

16:15-16:30 Prizes : Fib 16(1-101: lecture theater-auditorium) (sponsors: Energy Sponsor Program and IEEE)

16:30: Closing

Krisztina Leban

The Energy
Sponsor Programme

