

# New trends in drives and power converters Japan – Catalan Workshop



Barcelona, 14<sup>th</sup> November 2017

Aula Capella

Escola Tècnica Superior d'Enginyeria Industrial de Barcelona,  
Universitat Politècnica de Catalunya.

UPC BarcelonaTech, Av. Diagonal 647, Barcelona



8:30	<b>Register</b>
9:00	<b>Welcome, Neus Cónsul</b> (ETSEIB-UPC Director)
9:05	<b>Opening CITCEA-UPC, Daniel Montesinos-Miracle</b> (CITCEA-UPC Director)
9:15	<b>Opening Shizuoka Univ., Toshihiko Noguchi</b> (Shizuoka University Professor)
9:30	<b>New trends in European electricity markets, EMPOWER and INVADE, Pol Olivella</b> (CITCEA-UPC)
9:50	<b>Simplification of Bearingless Motor Drive Junichi Asama</b> (Shizuoka University)
10:10	<b>Source Power Factor Improvement for an Isolated Three-Phase AC/DC Converter using a Soft-Switching Technique Takumi Hamaguchi</b> (Nagoya Institute of Technology)
10:30	<b>Isolated Three-Phase AC/DC Converter for Input Medium Voltage Application Kazuma Suzuki</b> (Nagoya Institute of Technology)
10:50	<b>Pure Sinusoidal Output Current-Source Inverter Using Inductor Modules Yosuke Iwata</b> (Shizuoka University)
11:10	Coffee break
11:30	<b>Magnetic Bearing Drive System Using Zero-Phase Current Yusuke Fujii</b> (Shizuoka University)
11:50	<b>Development of High-Efficiency Permanent Magnet Synchronous Generator for Motorcycle Application Yuki Kurebayashi</b> (Shizuoka University)
12:10	<b>Dual-Port Output Control of Isolated DC/DC Converter Focusing on Duty Cycle and Frequency of Primary Inverter Kazuki Shimizu</b> (Shizuoka University)
12:30	<b>Space Vector Modulation of Dual Inverter with Battery and Capacitor across DC Buses Yoshiaki Ohto</b> (Shizuoka University)
12:50	<b>Current-Doubler Based Multiport DC/DC Converter with Galvanic Isolation Yoshinori Matsushita</b> (Shizuoka University)
13:10	<b>Development of High-Speed and High-Voltage Pulse Generator for NOx Decomposition Plasma Reactor Hafidz Elmana</b> (Shizuoka University)
13:30	<b>Vector Control and Experimental Verification of Magnetically Modulated Motor for HEV Application Sawanth Krishna Machavolu</b> (Shizuoka University)
13:50	Closure

