Università di Salerno
Dipartimento di
Ingegneria Industriale

PhDIIn Day

Friday, November 10, 2017
at 9.00
Aula delle Lauree di Ingegneria
Università di Salerno

A unique taste of state-of-the-art-research at the Department of Industrial Engineering [by its Ph.D. students]

9:00 Opening session

9:30 Flash presentations by the PhD students (XXXII Cycle)

10:50 Poster session & Coffee break

11:30 Flash presentations by the PhD students (XXXI Cycle)

12:50 Poster session

13:30 Closing remarks

Dottorato di Ricerca in Ingegneria industriale

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9:00 Opening session and introduction of the Ph.D. course in Industrial Engineering

9:30 I Flash Presentation Session

9:30 *Advanced metering infrastructure communication protocol in accordance with the IoT paradigm (Ferro M.)*

9:35 *CyberSecurity and IoT: new challenging perspectives (Pascale F.)*

9:40 *Traveling wave fractal applicators for microwave heating (Moretti D. G.)*

9:45 *Control oriented modeling of exhaust aftertreatment systems for automotive applications (D'Aniello F.)*

9:50 *Optimized control of a domestic refrigerator (Del Duca M. G.)*

9:55 *Industrial Ecology application to wine sector: state of art and researches in progress (Ferrara C.)*

10:00 *Development of an advanced algorithm for online Solid Oxide Fuel Cells monitoring and diagnosis, based on dynamic and circuital models (Gallo M.)*

10:05 *Strategies for emissions reduction and optimal performances in Diesel engines: experimental testing of a low temperature regenerating catalytic DPF (Rossomando B.)*

10:10 *Real-time estimation of the tribological characteristics in the vehicular systems and their applications in vehicles control purposes (Sharifzadeh M.)*

10:15 *Electrical Energy Storage Systems (Tiano F. A.)*

10:20 *Development of active flexible packaging for food preservation (Apicella A.)*

10:25 *Study, fabrication and characterization of materials for solid oxide fuel cells application (Coppola N.)*

10:30 *Design of an advanced rapid heating/cooling system for micro-injection moulding and its application to control the final morphology of a semicrystalline polymer (De Meo A.)*

10:35 *Drying of vegetables: improvement of quality and process modeling (Önal B.)*

10:40 *Utilization of high hydrostatic pressure process for the production of starch based hydrogels for innovative applications (Wachtendorff D. L.)*

10:50 I Poster Session & Coffee Break

11:30 II Flash Presentation Session

11:30 *Patient specific device design method validation: "in vivo" test (Cataldo E.)*

11:35 *Innovative ADAS Solutions to Improve Vehicle Efficiency and Driving Performance (D'Amato A.)*

11:40 *New Maintenance Methodologies for Sustainable Manufacturing (Franciosi C.)*

11:45 *Integrated Open-source Robotic Framework for NAS10-UNISA (Unmanned Airship) (Rivera Z.)*

11:50 *Process optimization for the energetic valorization of microalgae (Battipaglia G.)*

11:55 *Multi-functional self-healing materials for structural applications (Calabrese E.)*

12:00 *Use of PEF for extraction improvement of valuable compounds from food residues, by-products and microalgal biomass (Carullo D.)*

12:05 *Relevant phenomena and process parameters in granulation for manufacturing of pharmaceutical, nutraceutical and zootechnical products (De Simone V.)*

12:10 *Production of pharmaceutical and nutraceutical formulations for bioavailability improvement using Supercritical Assisted Atomization (Di Capua A.)*

12:15 *Liposomes production using a supercritical fluid assisted process (Trucillo P.)*

12:20 *Virtual sensors for two-wheeled vehicles control (Carratù M.)*

12:25 *3-D FEM modeling and characterization of RFP-CMUT arrays (La Mura M.)*

12:30 II Poster Session

13:30 Closing remarks