RESEARCH@DIMSAI

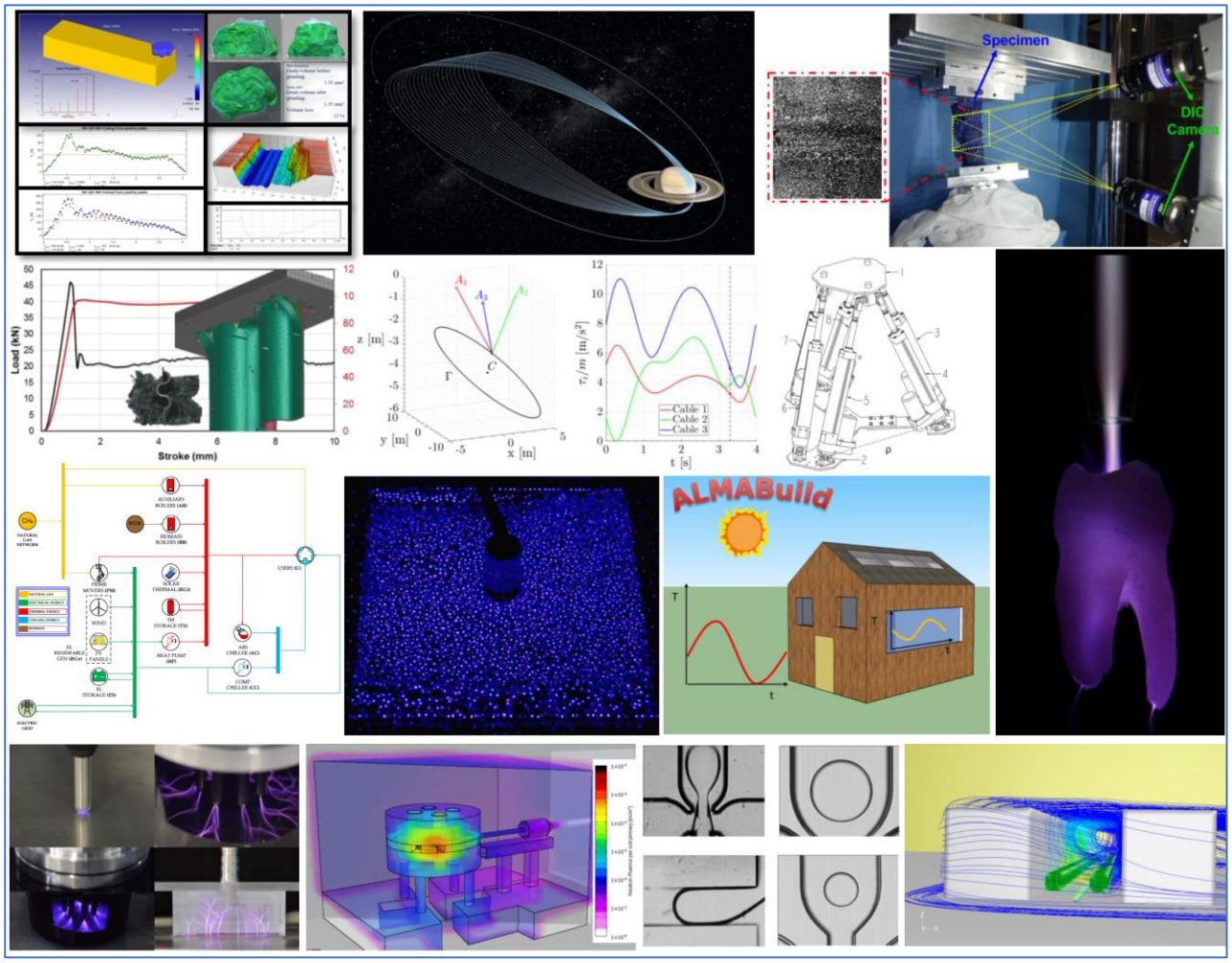
Giornata di studio dedicata al dottorato in

MECCANICA E SCIENZE AVANZATE DELL'INGEGNERIA

15 Febbraio 2019

Aula Magna & Sala del Consiglio
Scuola di Ingegneria e Architettura
Viale del Risorgimento 2, 40136 Bologna

DIPARTIMENTO DI INGEGNERIA INDUSTRIALE



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Programma

9:00 - 9:30	Presentazione della giornata e saluti istituzionali
9:30 - 13:00	Presentazioni delle attività svolte dai dottorandi al 3° anno del loro programma di studio e ricerca
13:00 - 14:30	Buffet
14:30 - 15:30	Tavola rotonda sulla collaborazione tra il DIMSAI e il mondo industriale: informazioni, esperienze, idee, prospettive
9.30 - 15:30	Sessione poster sulle attività svolte dai dottorandi al 2° anno del loro programma di studio e ricerca

Lista delle presentazioni (dottorandi 31° ciclo)

Dottorando	Tutor	Enti collaborazione	Titolo	Orario previsto
Jean Pierre Campana	Gian Luca Morini		*ALMABEST: a new whole building energy simulation Simulink-based tool for NZEB design*	9:30-9:45
Alessandro Guzzini	Cesare Saccani	HERA SpA	*Gas distribution: from network's integrity management to new smart meters' performances technical evaluation*	9:45-10:00
Jessica Rossi	Augusto Bianchini		*Innovative high efficiency filtration device for particulate matter from biomass combustion in small size heating systems*	10:00-10:15
Roberto Da Vià	Sandro Manservisi		*Development of a computational platform for the simulation of low Prandtl number turbulent flows*	10:15-10:30
Matteo De Cesare	Nicolò Cavina	Magneti Marelli SpA	*Powertrain architectures and technologies for new emission and fuel consumption standards*	10:30-10:45
Filippo Carra	Fabrizio Ponti		*Analysis, modeling and control on standard and alternative combustions in a diesel engine*	10:45-11:00
Michele Taccioli	Enrico Corti		*Sviluppo di sistemi per l'automazione dei test sui motori*	11:00-11:15
Eleonora Balducci	Lorella Ceschini Nicolò Cavina	Ferrari Auto SpA Ducati Motor Holding SpA	*Innovative alloys for high performance automotive pistons: enhancement of specific strength at high temperature and resistance to knock damage*	11:15-11:30
Fabio Lenzi	Giampaolo Campana		*Investigation into oil quenching processes of steels to improve sustainability by experiments and multi-physical modelling*	11:30-11:45
Luis Gomez Casajus	Paolo Tortora		*Development of methods for the global ephemerides estimation of the gas giant satellite systems*	11:45-12:00
Giovanni Mottola	Marco Carricato		*Dynamically feasible trajectories of fully-constrained cable-suspended parallel robots*	12:00-12:15
Luca Luzi	Vincenzo Parenti Castelli		*A new overconstrained Gough-Stewart platform-based manipulator*	12:15-12:30
Yi Chen	Rocco Vertechy		*On the lifetime characterization of dielectric elastomer transducers*	12:30-12:45
Alberto Sensini	Luca Cristofolini		*Electrospun biomaterials and structures for the regeneration of tendons and ligaments: development and biomechanical validation*	12:45-13:00

Lista dei poster (dottorandi 32° ciclo)

Dottorando	Tutor	Enti collaborazione	Titolo
Matteo Simoni	Cesare Saccani	Technosilos Snc	*Multiphase flow engineering: design and construction of an industrial plant*
Stefano Patassa	Nicolò Cavina	Alma Automotive	*Modeling, control and diagnosis of hybrid powertrains*
Francesco Ranuzzi	Nicolò Cavina	Magneti Marelli SpA	*Development of water injection combustion control for advanced SI engine*
Gabriele Caramia	Nicolò Cavina	F.E.V. Italia Srl	*Modelling and optimization of energy management strategies for hybrid vehicles*
Simone Messieri	Lorella Ceschini	Ducati Motor Holding SpA	*Optimization of materials and processes for racing component motorbike*
Mattia Mele	Giampaolo Campana		*Investigation into a method for the application of knowledge-based approach to manufacturing engineering*
Francesco Osti	Alfredo Liverani		*Explicit modeling techniques in the conceptual design phase*
Giampiero Donnici	Alfredo Liverani	Tiesseprogetti Srl	*TRIZ and QFD combined method in industrial products optimization*
Filippo Capelli	Vittorio Colombo		*Integrated design of atmospheric pressure non-equilibrium plasma sources for industrial and biomedical applications*
Federico Morosato	Luca Cristofolini		*Development of in vitro methods to test the performance of acetabular cups in presence of large bone defects*
Maria Luisa Ruspi	Luca Cristofolini		*Development and application of methods for the biomechanical characterization and optimization of implantable devices for the spine*
Federica Barletta	Vittorio Colombo		*Design and optimization of processes assisted by atmospheric non-equilibrium plasma for the deposition of coatings*
Tommaso Gallingani	Vittorio Colombo	TPM-Democenter	*Cold atmospheric plasma assisted deposition of nanostructured coatings to reduce biofilm adhesion and proliferation*