



**PROGRAMMA
AUTOMATICA.IT
5-7 SETTEMBRE 2016
UNIVERSITA' DEGLI STUDI
ROMA TRE**



lunedì 5 settembre

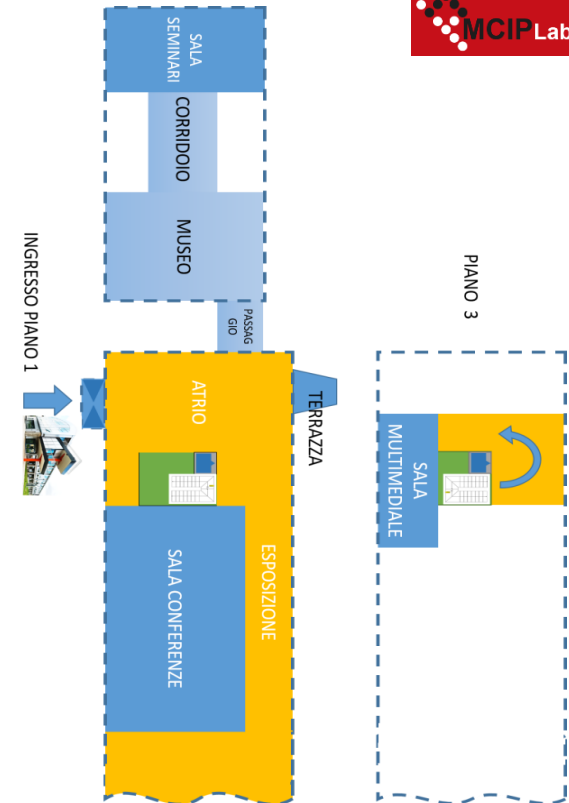
13:00	Registrazione		
13:30	Benvenuto		
14:00	Sessione orale	MA1 - ENERGY AND DECISION SUPPORT SYSTEMS SALA CONFERENZE	
16:00	coffee break	Sessione Interattiva S1	
16:30	Sessioni orali	MA2a - MULTI ROBOT SALA CONFERENZE	MA2b - LINEAR CONTROL SALA SEMINARI
18:30	Welcome Cocktail		
21:00	Cena I-RAS		

martedì 6 settembre

9:00	Sessioni orali	TM1a - MANIPULATION SALA CONFERENZE	TM1b - ESTIMATION SALA MULTIMEDIALE
10:30	coffee break	Sessione Interattiva S2	
11:00	Sessioni orali	TM2a - NONLINEAR CONTROL SALA CONFERENZE	TM2b - ROBOTICS SALA MULTIMEDIALE
13:00	Pranzo		
14:00	Sessioni orali	TA1a - NETWORKED SYSTEMS SALA CONFERENZE	TA1b - AUTONOMOUS VEHICLES SALA MULTIMEDIALE
16:00	coffee break	Sessione Interattiva S3	
16:30	Tavola Rotonda		
20:30	Cena Sociale		

mercoledì 7 settembre

9:00	SIDRA	PRESENTAZIONI MIGLIORI TESI DI DOTTORATO IN AUTOMATICA EDIZIONE 2016	SALA CONFERENZE
10:00	coffee break		
10:30	Assemblea SIDRA		



Wi-Fi: Rm3Wi-Fi
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	SALA CONFERENZE	Registrazione	13:00		
		Saluti di Benvenuto	13:30		
MONDAY AFTERNOON 5 set	Sessione orale MA1	District Microgrid Management Integrated with Renewable Energy Sources, Energy Storage Systems and Electric Vehicles. Agostino Marcello Mangini, Maria Pia Fanti, Michele Roccotelli and Walter Ukovich	14:00		
	ENERGY AND DECISION SUPPORT SYSTEMS	Decentralized and Distributed Energy Scheduling of Smart Homes with Shared Energy Generation and Storage. Raffaele Carli and Mariagrazia Dotoli	14:20		
		Direct Current MicroGrids for Urban Sustainability. Alessio Iovine, Gabriella Fiore, Elena De Santis, Maria Domenica Di Benedetto and Gilney Damm	14:40		
		Risk-Based Security Constrained Unit Commitment with Renewable Energy Sources. Chiara Foglietta and Stefano Panzieri	15:00		
	SALA CONFERENZE	A Decision Support System for Real-Time Management of Railway Systems under Disturbances. Graziana Cavone, Mariagrazia Dotoli, Nicola Epicoco and Carla Seatzu	15:20		
		A Decision Support Approach for Postal Delivery and Waste Collection Services. Lorenzo Abbatecola, Maria Pia Fanti, Agostino Marcello Mangini and Walter Ukovich	15:40		
	ATRIO	COFFE BREAK	16:00		
MONDAY AFTERNOON 5 set	Sessione orale MA2a	Distributed Algorithms for Multi-Robot Incident Response Victim Extraction. Giovanni Pedroncelli, Maria Pia Fanti, Agostino Marcello Mangini and Walter Ukovich	16:30	Sessione orale MA2b LINEAR CONTROL SALA SEMINARI	Optimal control of linear systems with large and variable input delays. Filippo Cacace, Francesco Conte, Alfredo Germani and Giovanni Palombo
		Bounded Control Law for Global Connectivity Maintenance in Cooperative Multi-Robot Systems. Andrea Gasparri, Leccese Antonio, Sabattini Lorenzo and Giovanni Ulivi	16:50		Modelli di ordine ridotto per sistemi trasformati in frequenza. Arturo Buscarino
		Interaction Control Alternatives for Physical Human-Robot Collaboration. Emanuele Magrini and Alessandro De Luca	17:10		An Overview on Disturbance Decoupling in Linear Impulsive Systems. Anna Maria Perdon, Elena Zattoni and Giuseppe Conte
	MULTI ROBOT	Distributed fault detection isolation and accommodation for networked robots. Filippo Arrichiello, Alessandro Marino and Francesco Pierrì	17:30		Robust internal model based output regulation for a class of hybrid linear systems: the semiclassical case. Daniele Carnevale, Sergio Galeani, Laura Menini and Mario Sassano
	SALA CONFERENZE	Activity Driven Networks for Modeling and Control of Diffusion Processes and Epidemics on Time-Varying Networks. Alessandro Rizzo	17:50		Heart Rate During Treadmill/Cycle-ergometer Exercises: Further Stability Results. Cristiano Maria Verrelli, Patrizio Tomei, Marco Tiberti, Giuseppe Caminiti, Ferdinando Iellamo and Maurizio Volterrani
		The impact of negative feedback in metabolic noise propagation. Alessandro Borri, Pasquale Palumbo and Abhyudai Singh	18:10		Frequency-dependent averaged model for power converters with state jumps. Elisa Mostacciolo, Francesco Vasca and Silvio Baccari
	ATRIO	WELCOME COCKTAIL	18:30		
		CENA I-RAS	21:00		



TUESDAY MORNING 6 set	MANIPULATION SALA CONFERENZE	Force/Torque and Virtual Sensors for Measuring Physical Robot Interaction at Any Location. Gabriele Buondonno and Alessandro De Luca	9:00	Sessione orale TM1b ESTIMATION SALA MULTIMEDIALE	Exploring Representation Learning with CNNs for Frame to Frame Ego-Motion Estimation. Gabriele Costante, Michele Mancini, Paolo Valigi and Thomas Alessandro Ciarfuglia
		Latest developments in robotic nonprehensile dynamic manipulation. Fabio Ruggiero	9:20		Dynamic field estimation in complex environment. Giorgio Battistelli, Luigi Chisci and Nicola Forti
		Synergies and Underactuation: Learning and Control Strategies for Anthropomorphic Hands. Fanny Ficuciello	9:40		A mathematical model of the G1/S transition for the budding yeast. Pasquale Palumbo, Marco Vanoni, Valerio Cusimano, Stefano Busti, Francesca Marano, Costanzo Manes and Lilia Alberghina
		Model-Based Tracking Control for a Rehabilitation Robotic Exoskeleton Driven by Compliant Actuators. Francesco Amato, Domenico Colacino, Carlo Cosentino and Alessio Merola	10:00		White Noise Solution for Nonlinear Stochastic Systems. Filippo Cacace, Francesco Conte, Alfredo Germani and Giovanni Palombo
	Multi-Contact Bilateral Tele-Manipulation with Kinematic Asymmetries. Gionata Salvietti, Leonardo Meli, Monica Malvezzi and Domenico Prattichizzo	10:20	A state predictor for continuous-time stochastic systems. Filippo Cacace, Valerio Cusimano, Alfredo Germani and Pasquale Palumbo		
ATORIO	COFFE BREAK	10:40			
TUESDAY MORNING 6 set	Sessione orale TM2a NONLINEAR CONTROL SALA CONFERENZE	Tecniche di Controllo Predittivo: casi di successo nell'industria di processo. Silvia Maria Zanoli and Crescenzo Pepe	11:00	Sessione orale TM2b ROBOTICS SALA MULTIMEDIALE	Extracting Feasible Robot Parameters from Dynamic Coefficients: An Extension to Unknown Payloads. Claudio Gaz and Alessandro De Luca
		Active disturbance attenuation: a switching control approach. Giorgio Battistelli, Daniela Selvi and Alberto Tesi	11:20		A Robust Semi-Semantic Approach For Visual Localization In Urban Environment. Silvia Cascianelli, Gabriele Costante, Enrico Bellocchio, Paolo Valigi, Mario Luca Fravolini and Thomas Alessandro Ciarfuglia
		Robustification of Nonlinear Stabilizers in the Sample-and-Hold Sense. Pierdomenico Pepe	11:40		An Adaptive Multi-Rate System for Visual Tracking in Augmented Reality Applications. Filippo D'Ippolito, Marco Massaro and Antonino Sferlazza
		Tecniche di controllo per rendere un sistema immaginario negativo. Mattia Frasca (MEGLIO IN LINEAR SYSTEMS)	12:00		Hybrid Nonlinear Observer for Inertial Navigation. Francesco Alonge, Filippo D'Ippolito, Antonio Gargano and Antonino Sferlazza
	Performance-based controller switching: An application to plasma current control at FTU. Daniele Carnevale, Sergio Galeani, Luca Boncagni, Ferrò Giuseppe, Mateusz Gospodarczyk and Mario Sassano	12:20	Towards Robust 2D Pose Graph Optimization via Convex Relaxation. Luca Carlone, Giuseppe Carlo Calafiore, Carlo Tommolillo and Frank Dallaert		
Robust Stability Analysis of Congestion Control Algorithms Based on Modified Smith Predictors. Luca De Cicco, Saverio Mascolo and Silviu-Iulian Niculescu	12:40	An Integrated Framework for Binary Sensor Placement and Inhabitants Location Tracking. Michele Roccotelli, Maria Pia Fanti, Agostino Marcello Mangini, Gregory Faraut and Jean-Jacques Lesage			
	PRANZO	13:00			
TUESDAY AFTERNOON 6 set	Sessione orale TA1a NETWORKED SYSTEMS SALA CONFERENZE	On Decentralized Supervisory Control of Networks of Nonlinear Control Systems. Giordano Pola, Pierdomenico Pepe and Maria Domenica Di Benedetto	14:00	Sessione orale TA1b AUTONOMOUS VEHICLES SALA MULTIMEDIALE	A smartphone-based navigation and orientation system. Laura Giarre', Daniele Croce, Ilenia Tinnirello and Domenico Garlisi
		Finite-Time Distributed Averaging, Diameter Calculation and Loop Detection/Removal. Gabriele Oliva, Roberto Setola and Luigi Glielmo	14:20		Safety verification methods for human-driven vehicles at traffic intersections: optimal driver-adaptive supervisory control. Gabriel Rodrigues de Campos, Fabio Della Rossa and Alessandro Colombo
		Piecewise Quadratic Stability of Consensus in Heterogeneous Hegselmann-Krause Model. Domenico Tangredi, Francesco Vasca and Raffaele Iervolino	14:40		Safe Human-Inspired Mesoscopic Hybrid Automaton for Autonomous Vehicles. Alessio Iovine, Elena De Santis and Maria Domenica Di Benedetto
		Identification of Large-Scale Networks: the role of Sparsity and Low-rank Constraints. Mattia Zorzi, Alessandro Chiuso and Rodolphe Sepulchre	15:00		Trajectory Generation and Control for Aerial Manipulation. Roberto Rossi and Paolo Rocco
	Critical Nodes Detection and Robustness Metrics for Networked Systems. Luca Faramondi, Gabriele Oliva, Federica Pascucci, Stefano Panzieri and Roberto Setola	15:20	Navigation Systems for Unmanned Underwater Vehicles. Riccardo Costanzi		
Partial Controllability of Complex Networks. Francesco Lo Iudice, Franco Garofalo and Pietro De Lellis	15:40	Primitive based planning with application to the Walk-Manhumanoid robot. Danilo Caporale, Alessandro Settimi, Mirko Ferrati and Lucia Pallottino			
ATORIO	COFFE BREAK	16:00			
SALA CONFERENZE	TAVOLA ROTONDA	16:30			
	CENA SOCIALE	20:30			
WEDNESDAY MORNING 7 set	SALA CONFERENZE	PRESENTAZIONI MIGLIORI TESI DI DOTTORATO IN AUTOMATICA EDIZIONE 2016	9:00		
	ATORIO	COFFE BREAK	10:00		
	SALA CONF	ASSEMBLEA SIDRA	10:30		





PROGRAMMA SESSIONI INTERATTIVE
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SESSIONE INTERATTIVA		
S1 MONDAY AFTERNOON 16:00	Stefano Panzieri	Research activities within ATENA Project (SPONSOR)
	Francesco Delli Priscoli	Research activities within CRAT activities (SPONSOR)
	Gianluca Antonelli	Research activities within the ISME consortium
	Alessandro Borri, Simona Panunzi and Andrea De Gaetano	A population model of diabetes evolution
	Daniela De Palma and Giovanni Indiveri	Output Outlier Robust State Estimation
S2 TUESDAY MORNING 10:30	Lucio Ciabattoni, Francesco Ferracuti, Alessandro Freddi, Sauro Longhi and Andrea Monteriù	Human Indoor Localization Using RSSI and Fuzzy Logic
	Mirko Ferrati, Simone Nardi, Alessandro Settimi, Hamal Marino, Danilo Caporale and Lucia Pallottino	Multi-object handling for smart robotic manufacturing
	Giovanni Indiveri	The H2020 Widely scalable Mobile Underwater Sonar Technology (WiMUST) project: an overview
	Giuseppe Bernieri, Estefania Etchevès Miciolino, Federica Pascucci and Roberto Setola	Analysis of Critical Infrastructure Testbed Under Integrity Cyber-Attack
	Cosimo Palazzo, Chiara Foglietta, Dario Masucci and Stefano Panzieri	Decision Support System for Electrical Grid Operators using a Multi-Criteria Algorithm with CISIApro Hybrid Risk Evaluation
S3 TUESDAY AFTERNOON 16:00	Mattia Zorzi	Robust Kalman Filtering under model perturbations
	Maria Carla De Maggio, Antonio Di Pietro, Maurizio Pollino, Roberto Setola and Alberto Tofani	RecSIM – A simulator of electrical system outage and reconfiguration as a central application in a Decision Support System for Risk Analysis of Critical Infrastructures
	Riccardo Fratini, Riccardo Santini, Jacopo Serafini, Stefano Panzieri and Massimo Gennaretti	Spatial Repetitive Controllers for Aeroelastic Models of Wind Turbines
	Michela Robba and Riccardo Minciardi	Hierarchical and distributed optimization of smart grids
	Marialuisa Volta, Claudio Carnevale, Enrico Turrini, Giorgio Guariso and Giovanna Finzi	Obiettivi e risultati del progetto FP7 APPRAISAL
	Enrico Bellocchio, Gabriele Costante, Silvia Cascianelli, Paolo Valigi and Thomas Alessandro Ciarfuglia	SmartSEAL: A ROS based Home Automation Framework for Heterogeneous Devices Interconnection in Smart Buildings
	Mattia Mattioni, Salvatore Monaco, Dorothee Normand-Cyrot	Stabilization of input-delayed dynamics via immersion and invariance

