

SALA ARECHI II

E. Canuto, A. Molano Jimenez, C. N. Perez Montenegro, J. A. Ospina and M. Buonocore
"Aerodynamic Angle Attitude Control for Atmospheric Planetary Entry"

L. Carlone, S. Rosa, M. Indri and B. Bona
"Advances in Autonomous Robots Navigation: Accomplished Results and Ongoing Research"

P. Arena
"Modelli Neurali per il Controllo di Schemi Percettivi e di Locomozione in Robot-Bioispirati"

E. Canuto, A. Molano Jimenez, C. N. Perez Montenegro, J. A. Ospina and M. Buonocore
"Longitudinal Path-Tracking During Atmospheric Planetary Entry"

M. Indri and I. Lazzerò
"Programming and Safe Monitoring of an Industrial Robot Via a Virtual Cell"

G. Pedoto, S. Santaniello, G. Fiengo, L. Glielmo and S. Sarma
"Towards Automated Electrode Placement in Deep Brain Stimulation Treatment: Modeling the Sweet Spot within the Sub-thalamic Nucleus"

E. Canuto, A. Molano Jimenez, C. N. Perez Montenegro and W. Acuna-Bravo
"Propulsive Guidance and Control for Planetary Landing"

G. Palli and C. Melchiorri
"Modeling and Control of Redundant Robots with Variable Stiffness Actuation"

R. Falconi, A. Paoli and C. Bonivento
"Hybrid Driver-Vehicle Dynamics in Microscopic Modeling of Traffic Net"

SALA TRAIANO

A. Freddi, A. Moneriù and S. Longhi
"Model-based Fault Diagnosis and Control of Unmanned Vehicles"

A. Parisio, C. Del Vecchio and G. Velotto
"Robust Optimization of Operations in Energy Hub"

A. Rizzo
"Sistemi a Rete come Paradigma per la Modellistica, la Stima e il Controllo dei Sistemi Complessi e del Moto Collettivo"

D. Meola, L. Iannelli and L. Glielmo
"Flight Control System for Small-Size Unmanned Aerial Vehicles: Design and Software-In-the-Loop Validation"

C. Del Vecchio, G. Gambino, D. Meola, A. Parisio and L. Glielmo
"E-GOTHAM: sustainable-smart Grid Open system for THE Aggregated control, monitoring and Management of energy"

A. Borri, G. Pola and M. D. Di Benedetto
"A Symbolic Approach to the Design of Nonlinear Networked Control Systems"

A. Parisio and L. Glielmo
"Energy Efficient Microgrid Management using Model Predictive Control"

L. De Cicco and S. Mascolo
"Il Controllo di Congestione per Applicazioni Multimediali"

S. Falasca, M. Gamba, L. Greco and A. Chaillet
"An Output-Feedback Dynamic Approach for the Control Over Packet-Switching Networks"

[**Contributi alle sessioni interattive**]

A. Colombo and
D. Del Vecchio
"Efficient Algorithms for
Collision Avoidance at
Intersections"

*F. Zanella, D. Varagnolo, A.
Cenedese, G. Pillonetto* and
L. Schenato
"Asynchronous Newton-
Raphson Consensus for
Distributed Convex
Optimization"

L. Consolini and
M. Maggiore
"Virtual Holonomic
Constraints for Euler-
Lagrange systems"

G. Franzé, D. Famularo and
A. Casavola
"Constrained Nonlinear
Polynomial Time-Delay
Systems: a Sum-of-Squares
Approach to Estimate the
Domain of Attraction"

P. Lino, B. Maione and
G. Maione
"Model-Based Control of
Building Evacuation Using
Feedback from Sensors and
Actuators Wireless Networks"

*L. Bascetta, P. Rocco, A. M.
Zanchettin* and *G. Magnani*
"Controllo di Velocità di una
Lavabiancheria: dall'Analisi
Meccatronica alla Taratura
Automatica del Regolatore"

F. Alonge, F. D'Ippolito and
A. Sferlazza
"Descriptor-Type Robust
Kalman Filter and Neural
Adaptive Speed Estimation
Scheme for Sensorless
Control of Induction Motor
Drive Systems"

S. Baccari, F. Vasca, L. Iannelli
and *M. Tipladi*
"Photoelectrothermal Model
Predictive Control for Light
Emitting Diodes"

*L. Pallottino, E. Huifang
Wang, P. Salaris, H. Marino,
M. Bonizzato* and
R. Bartalucci
"On Controllability and
Motion Planning for Dubins
Vehicles Formations"

G. Binetti, D. Naso and
B. Turchiano
"Constrained Decentralized
Task Allocation in Heteroge-
neous Agent Networks"

M. Bianchi, P. Salaris and
A. Bicchi
"Synergy-Based Hand Pose
Sensing"

V. Sessa, L. Iannelli and
F. Vasca
"Mixed Linear Complemen-
tarity Problems for the
Analysis of Limit Cycles in
Piecewise Linear Systems"

F. Pascucci and *R. Setola*
"REFIRE - REference
implementation of interope-
rable indoor location &
communication systems for
First REsponders"

*G. Iacobellis, M. P. Fanti, W.
Ukovich* and *A. M. Mangini*
"A Freeway Traffic Model and
Optimization in a First Order
Hybrid Petri Net Framework"

F. Di Corato and *L. Pollini*
"A Unified Loosely-Coupled
Approach to Simultaneous
Stereo Cameras-IMU
Calibration and In-Motion
Fine Alignment"

*L. Vinciguerra, D. Caporale,
A. Dolcini* and *P. Colaneri*
"Anti-Slip Control Applied to
a Citadis 301 Tram"

A. M. Mangini, M. P. Fanti and
W. Ukovich
"A New Class of Consensus
Protocols for Agent
Networks with Discrete Time
Dynamics"

*M. Dotoli, N. Costantino, M.
Falagarìo* and
F. Sciancalepore
"Some Novel Decision
Making Techniques for
Strategic Supply Chain
Management under
Uncertainty"

*F. Amato, D. Colacino,
C. Cosentino* and *A. Merola*
"Optimal Guaranteed Cost
Control of a Biomimetic
Robot Arm"

*L. Salerno, C. Cosentino, A.
Merola, D. G. Bates* and
F. Amato
"A Procedure for Robustness
Analysis of Bistability in
Biomolecular Systems"

S. M. Zanolì and *G. Astolfi*
"Application of Model-Free
Techniques for Fault
Diagnosis on a Chemical
Process"

R. Sacile and *S. Sacone*
"L'Automatica nell'Analisi di
Sistemi di Trasporto
Stradale"

M. Bucolo
"Micro-Optic-Fluidic
Technology for Microfluidics
Control"