PROGRAM DAILY

Wednesday, JUNE 28, 2006

	WP	**Plenary**	
9,00/10,00	**WP**	Aerospace Controls: The Way Forward	Banda, S. S
	WM1	**Advances in Unmanned Aerial Vehicle Technology, With Wireless Sensor Network Applications Aerei**	
		Invited Session. Organizers: G. Vachtsevanos and F.L. Lewis	
10,30/10,50	WM1-1	Dynamic Localization of Air-Ground Wireless Sensor Networks	Dang, P.; Lewis, F. L.; Popa, O. D.
10,50/11,10	WM1-2	Automated Process for Unmanned Aerial Systems Controller Implementation using MATLAB	Ernst, D.; Valavanis, K.; Craighead, J.
11,10/11,30	WM1-3	Target Tracking with Unmanned Aerial Vehicles: From Single to Swarm Vehicle Autonomy and Intelligence	Ludington, B.; Reimann, J.; Vachtsevnos, G.; Barlas, I.
11,30/11,50	WM1-4	Modeling and Control System Design for a UAV Helicopter	Cai, G.; Chen, B. M.; Peng, K.; Dong, M.; Lee, T. H.
11,50/12,10	WM1-5	Adaptive Neural Network Control and Wireless Sensor Network-based Localization for UAV Formation	Wu, H.; Jagannathan, S.
12,10/12,30	WM1-6	Decentralized Formation Tracking of Multi-vehicle Systems via Nonlinear Consensus	Fang, L.; Antsaklis, P.
	WM2	**Control systems 1**	
10,30/10,50	WM2-1	Combining MPC and LD Analysis in Supply Chain Inventory Control Problem	Pennesi, P.; Conte, G.; Paschalidis, I. C.
10,50/11,10	WM2-2	Robust Model Predictive Control for Controlling Fast Vehicle Dynamics	Péni, T.; Bokor, J.
11,10/11,30	WM2-3	A New Decision Making Method Based on Fuzzificated Dempster Shafer Theory, A Sample Application in Medicine	Asheghan, M.; Lucas, C.; Kharazm, P.
11,30/11,50	WM2-4	Automated Sequential Search for Weak Radiation Sources	Kumar, A.; Tanner, H. G. ; Klimenko, A. V.; Borozdin, K. N. ; Priedhorsky, W. C.
11,50/12,10	WM2-5	A State-space Approach to Adaptive Rejection of Harmonic Sensor Disturbances in Discrete-time Systems	Fiorentini, L.; Serrani, A.; Longhi, S.
12,10/12,30	WM2-6	Systems with Multiplicative Noise: Stationary Output-feedback Tracking with Preview	Gershon, E.; Shaked, U.
	WM3	**Planning and Intelligent Control Techniques for Unstructured Robotic Environments: The research program PICTURE**	
		Invited Session. Organizer: S. Chiaverini	

10,30/10,50	WM3-1	Experiments of Formation Control with Collisions Avoidance using the Null-Space-Based Behavioral Control	Antonelli, G.; Chiaverini, S.; Arrichiello, F.
10,50/11,10	WM3-2	Cooperative On-line Planning for Adaptative Map Building in Environmental Applications	Caiti, A.; Munafò, A.; Viviani, R.
11,10/11,30	WM3-3	Pose Recovery for a Mobile Manipulator using a Particle Filter	Gasparri, A.; Panzieri, S.; Pascucci, F.; Ulivi, G.
11,30/11,50	WM3-4	A Direction Dependent Parametric Model for the Vacuum Adhesion System of the Alicia II Robot	De Francisci, S.; Longo, D.; Muscato, G.
11,50/12,10	WM3-5	Acoustic Mapping and Localization of an ROV	Zanoli, S. M.; Conte, G.; Gambella, L.; Scaradozzi, D.
12,10/12,30	WM3-6	Distributed Control and Coordination Technique for Complex Robotic Systems	Casalino, G.; Turetta, A.; Sorbara, A.
	WM4	**Topics in systems identification**	
10,30/10,50	WM4-1	Algebraic Methods for Function Reconstruction: Application to System Identification	Djaferis, T. E.
10,50/11,10	WM4-2	Delay System Identification Applied to the Longitudinal Flight of an Aircraft through a Vertical Gust	Veysset, F.; Belkoura, L.; Coton, P.; Richard, J. P.
11,10/11,30	WM4-3	Verification of the Identifiability Property for Nonlinear Control Systems with Computer Algebra System Mathematica	Tabun, J.; Nõmm, S.; Kotta, Ü.; Moog, C. H.
11,30/11,50	WM4-4	Identification of Stochastic Systems Under Multiple Operating Conditions: The Vector Dependent FP-ARX Parametrization	Kopsaftopoulos, F. P.; Fassois, S. D.
11,50/12,10	WM4-5	Adaptive Constrained Control of Uncertain ARMA-Systems Based on Set Membership Identification	Nikolakopoulos, G.; Dritsas, L.; Tzes, A.; Lygeros, J.
12,10/12,30	WM4-6	Integrated Uncertainty Model Identification and Robust Control Synthesis for Linear Time.invariant Systems	Rödönyi, G.; Bokor, J.
	WEA1	**Aircrafts and aerial vehicles**	
14,30/14,50	WEA1-1	Adaptive Control Using Neural Network Augmentation for a Modified F-15 Aircraft	Burken, J.; Williams-Hayes, P.; Kaneshige, J. T.; Stachowiak, S. J.
14,50/15,10	WEA1-2	Nonlinear Integral Minimum Variance-Like Control with Application to an Aircraft System	Dimogianopoulos, D.; Hios, J.; Fassois, S.
15,10/15,30	WEA1-3	Feature Matching Algorithms for Machine Vision Based Autonomous Aerial Refueling	Fravolini, M. L.; Brunori, V.; Ficola, A.; La Cava, M.; Campa, G.

15,30/15,50	WEA1-4	Comparison of Different Neural Augmentations for the Fault Tolerant Control Laws of the WVU YF-22 Model Aircraft	Perhinschi, M. G.; Burken, J.; Campa, G.
15,50/16,10	WEA1-5	Vision-Based Autonomous Probe and Drogue Aerial Refueling	Mati, R.; Pollini, L.; Lunghi, A.; Innocenti, M.; Campa, G.
	WEA2	**Observation and filtering**	
14,30/14,50	WEA2-1	A Finite Time Unknown Input Observer for Linear Systems	Raff, T.; Lachner, F.; Allgower, F
14,50/15,10	WEA2-2	An Unknown Input Observer for Singular Time-Delay Systems	Perdon, A. M.; Anderlucci, M.
15,10/15,30	WEA2-3	Particle Filtering within a Set-Membership Approach to State Estimation	Balestrino, A.; Caiti, A.; Crisostomi, E.
15,30/15,50	WEA2-4	A New Global Localization Algorithm Based on Feature Extraction and Particle Filter	Caltabiano, D.; Muscato, G.; Sessa, S.
15,50/16,10	WEA2-5	Impulsive Noise in Railway Automated Monitoring: a Recursive Filtering Approach	Cavallo, M.; Naso, D.; Scalera, A.; Turchiano, B.; Aurisicchio, G.
	WEA3	**Infinite Dimensional Control Systems** **Invited Session. Organizers: R. Rabah and G. Sklyar**	
14,30/14,50	WEA3-1	Boundary Controllability and Inverse Problems for the Wave Equation on Graphs	Avdonin, S.; Nurtazina, K.; Sheronova, T.
14,50/15,10	WEA3-2	A Quadratic Regulator Problem Related to Identification Problems and Singular Systems	Favini, A.; Pandolfi, L.
15,10/15,30	WEA3-3	An Overview on Proper Concepts of Infinite Dimensional Systems	El Jai, A.
15,30/15,50	WEA3-4	On Strong Regular Stabilizability for Linear Neutral Type Systems	Rabah, R.; Sklyar, G. M.; Rezounenko, A. V.
15,50/16,10	WEA3-5	On Smoothness of End States in the Problem of Controllability of a Rotating Beam	Wozniak, J.
	WEA4	**Robotics 1**	
14,30/14,50	WEA4-1	A Neuro-Adaptive Controller for the Force/Position Tracking of a Robot Manipulator under Model Uncertainties in Compliance and Friction	Karayiannidis, Y.; Rovithakis, G.; Doulgeri, Z.
14,50/15,10	WEA4-2	Using the Function Block Model for Robotic Arm Motion Control	Doukas, G.; Thramboulidis, K.; Koveos, Y.
15,10/15,30	WEA4-3	A Luenberger-style Observer for Robot Manipulators with Position Measurements	Celani, F.
15,30/15,50	WEA4-4	Development of a Nanohandling Robot Station for Nanocharacterization by an AFM Probe	Fatikow, S.; Kray, S.; Eichhorn, V.; Tautz, S.
15,50/16,10	WEA4-5	Static and dynamic modeling of thermal microgripper	Mayyas, M.; Shiakolas, P. S.; Lee, W. H.; Popa, D.; Stephanou, H. ;

	WLA1	**Control of suspension systems**	
16,40/17,00	WLA1-1	Adaptive Predictive Control of an Electromagnetic Suspension System with LOLIMOT Identifier	Mohammadzaman, I.; Sarabi Jamab, A.
17,00/17,20	WLA1-2	Constrained Optimal Control: an Application to Semiactive Suspension Systems	Paschedag, T.; Giua, A.; Seatzu, C.
17,20/17,40	WLA1-3	Robust Model Reference Adaptive Control of Active Suspension System	Maleki, N.; Sedigh, A. K.; Labibi, B.
	WLA2	**Switching and hybrid systems**	
16,40/17,00	WLA2-1	Complexity and Size Analysis of Hybrid System Modeling with Mixed Logical Dynamical Approach	Mahboubi, H.; Habibi, J.; Moshiri, B.; Khaki-Sedigh, A.
17,00/17,20	WLA2-2	Switching Solution for Multiple-models Control Systems	Lupu, C.; Popescu, D.; Ciubotaru, B.; Petrescu, C.; Florea, G.
17,20/17,40	WLA2-3	Fuzzy Model Based Nonlinear Systems Stabilisation using Switching Control	Boumehraz, M.; Benmahammed, K.
17,40/18.00	WLA2-4	Multiple Model Control using Neural Networks for a Remotely Operated Vehicle	Cavalletti, M.; Ippoliti, G.; Longhi, S.
	WLA3	**Stability and stabilization problems**	
14,30/14,50	WLA3-1	Stability Monitoring and Analysis of Learning in Adaptive Systems	Yerramalla, S.; Cukic, B.; Campa, G.; Napolitano, M. R.; Fuller, E.
14,50/15,10	WLA3-2	Stability of One-Dimensional Spatially Invariant Arrays Perturbed by White Noise	Fang, H.; Antsaklis, P. J.
15,10/15,30	WLA3-3	An Eigenvalue Perturbation Result for Stability Bound with Respect to Biased Structured Perturbations	Jetto, L.; Orsini, V.
15,30/15,50	WLA3-4	Adaptive Multimodel Estimation for Synthesis of a Robust Stabilizer Under Imperfect Knowledge of the Plant Delay	Alonso-Quesada, S.; De la Sen, M.; Ibeas, A.
	WLA4	**Robotics 2**	
16,40/17,00	WLA4-1	Further Results on Stability of a Rigid Robot with Model Uncertainty and Time-delay in Feedback	Ailon, A.; Ahn, B.H.
17,00/17,20	WLA4-2	Planning Optimal Motions for a DELTA Parallel Robot	Afroun, M.; Chettibi, T.; Hanchi, S.
17,20/17,40	WLA4-3	Hinfinity Control of a SCARA Robot using Polytopic LPV Approach	Souley Ali, H.; Boutat-Baddas, L.; Becis-Aubry, Y.; Darouach, M.

Thursday, JUNE 29, 2006

	TP	**Plenary**	
9,00/10,00	**TP**	Systems Biology of Group Decision Making	Passino, K. M.
	TM1	**Swarm and formation control**	
10,30/10,50	TM1-1	Swarm Formation Control with Potential Fields Formed by Bivariate Normal Functions	Barnes, L.; Alvis, W.; Fields, M.; Valavanis, K.; Moreno, W.

10,50/11,10	TM1-2	Distributed Control of Autonomous Swarms by using Parallel Simulated Annealing Algorithm	Xi, W.; Baras, J. S.
11,10/11,30	TM1-3	Embedded Model Control Application to Drag-Free and Satellite-to-Satellite Tracking	Massotti, L.; Canuto, E.; Silvestrin, P.
11,30/11,50	TM1-4	Autonomous Formation Flight: Hardware Development	Gu, Y.; Seanor, B.; Campa, G.; Napolitano, M. R.; Rowe, L.; Gururajan, S.
11,50/12,10	TM1-5	3-Aircraft Formation Flight Experiment	Seanor, B.; Gu, Y.; Napolitano, M. R.; Campa, G.; Gururajan, S.; Rowe, L.
12,10/12,30	TM1-6	Formation control laws for autonomous flight vehicles	Chiaramonti, M.; Giulietti, F.; Mengali, G.
	TM2	**Neural networks and applications**	
10,30/10,50	TM2-1	Recurrent High Order Neural Networks for Identification of the EGFR Signaling Pathway	Christodoulou, M. A. ; Zarkogianni, D.
10,50/11,10	TM2-2	Neural Network Models for Prediction of Steady-State and Dynamic Behavior of MAPK Cascade	Christodoulou, M. A.; Iliopoulos, T. N.
11,10/11,30	TM2-3	A Neural Network Solution For Fixed-Final Time Optimal Control of Nonlinear Systems	Cheng, T.; Lewis, F. L.; Abu-Khalaf, M.
11,30/11,50	TM2-4	Design of Dynamic System Fault-Tolerant Control using IMM Estimation and RBF Neural Network	Wang, X.; Syrmos, V.
11,50/12,10	TM2-5	A Neural Network Based Sensor Validation Scheme for Heavy-Duty Diesel Engines	Campa, G.; Krishnamurty, M.; Gautam, M.; Napolitano, M. R.; Perhischi, M.
12,10/12,30	TM2-6	Stable Nonlinear Receding Horizon Regulator using RBF Neural Network Models	Ahmida, Z.; Charef, A.; Becerra, M.
	TM3	**Mobile robots**	
10,30/10,50	TM3-1	Mobile Robot Navigation using Sonar and Range Measurements from Uncalibrated Cameras	Tsalatsanis, A.; Valavanis, K.; Tsourveloudis, N.
10,50/11,10	TM3-2	On Improving Endurance of Unmanned Ground Vehicles: The ATRV-Jr Case Study	Ioannou, S.; Dalamagkidis, K.; Valavanis, K. P.; Stefanakos, E. K.; Wiley, P. H.
11,10/11,30	TM3-3	SARA: a Flexible Framework for Rapid Prototyping of Mobile Robotics Applications	Pagnottelli, S.; Valigi, P.
11,30/11,50	TM3-4	Optimal Motion Planning for the Rendezvous of Nonholonomic Vehicles Under Disturbances	Estrela da Silva, J.; Borges de Sousa, J.
11,50/12,10	TM3-5	A Framework For Simulations and Tests of Mobile Robotics Tasks	Frontoni, E.; Mancini, A.; Caponetti, F.; Zingaretti, P.
12,10/12,30	TM3-6	A Sensor Based Homing Strategy for Autonomous Underwater Vehicles	Silvestre, C.; Batista, P.; Oliveira, P.
	TM4	**Control systems 2**	
10,30/10,50	TM4-1	The Control Problem: a Framework for Holistic Design	Balaguer, P.; Vilanova, R.; Moreno, R.

10,50/11,10	TM4-2	Multisensory Human Postural Control: Neurological and Engineering Perspectives	Tahboub, K. A.; Mergner, T.; Ament, C.
11,10/11,30	TM4-3	Fuzzy Controller Design Based on the Phase Plane Isoclines	Bogdan, S.; Kovacic, Z.
11,30/11,50	TM4-4	Control for Triple Integrator with Constrained Input	Tapak, P.; Bistak, P.; Huba, M.
11,50/12,10	TM4-5	Actuator Failures Compensation: a Sliding Mode Control Approach	Corradini, M. L.; Orlando, G.; Parlangeli, G.
12,10/12,30	TM4-6	Efficient Sampling for Keeping Track of an Ornstein-Uhlenbeck Process	Baras, J. S.; Rabi, M.; Moustakides, G.
	TM5	**Process control 1**	
10,30/10,50	TM5-1	A Fuzzy Cognitive Network Based Control Scheme for an Anaerobic Digestion Process	Kottas, T.; Boutalis, Y.; Diamantis , V.; Kosmidou , O.; Aivasidis, A.
10,50/11,10	TM5-2	Optimal Monitoring and Management of a Water Storage with Pollution Constraints	Ioslovich, I.; Gutman, P. O.
11,10/11,30	TM5-3	Performance Indices and Tuning in Process Control	Landi, A.; Balestrino, A.; Medaglia, M.; Satler, M.
11,30/11,50	TM5-4	Reduced Order Controller for The Alstom Gasifier Plant	Yousefi, A.; Lohmann, B.
11,50/12,10	TM5-5	Control of a Continuous-time Stirred Tank Reactor via Robust Static Output Feedback	Bakosova, M.; Puna, D.; Meszaros, A.
12,10/12,30	TM5-6	Comparing Regressors Selection Methods for the Soft Sensor Design of a Sulfur Recovery Unit	Fortuna, L.; Graziani, S.; Xibilia, M. G.; Napoli, G.
	TEA1	**Control systems 3**	
14,30/14,50	TEA1-1	Recent Advances on Control Theory under Communication Constraints: A Survey	Lopez, I.; Abdallah, C. T.
14,50/15,10	TEA1-2	A Neuro-Adaptive TCP-like Protocol with Cost Constraints	Houmkozlis, C. H.; Rovithakis, G. A.
15,10/15,30	TEA1-3	Robust Congestion Control in Networks with Multiple Congested Nodes	Jahromi, K. K.; Nikravesh, S. K. Y. ; Shafee, M.
15,30/15,50	TEA1-4	Model-Based Control with Intermittent Feedback	Estrada, T.; Lin, H.; Antsaklis, P. J.
15,50/16,10	TEA1-5	Adaptive Control in the Presence of Outliers	Lemos, J. M.
	TEA2	**Distributed, networked and teleoperated systems**	
14,30/14,50	TEA2-1	Convergence Rate of Quantization Error in Networked Control Systems	Fang, H.; Antsaklis, P. J.
14,50/15,10	TEA2-2	Event Source Position Estimation using Sensor Networks	Michaelides, M. P.; Panayiotou, C. G.
15,10/15,30	TEA2-3	Constrained Finite Time Control of Networked Systems with Uncertain Delays	Dritsas, L.; Nikolakopoulos, G.; Tzes, A.
15,30/15,50	TEA2-4	Theoretical and Experimental Overview of Bilateral Teleoperation Control Laws	Marcassus, N.; Chriette, A.; Gautier, M.

15,50/16,10	TEA2-5	Design of Distributed Controllers with Constrained and Noisy Links	Voulgaris, P. G.; Jiang, S.
	TEA3	**Aircrafts and aerial vehicles 2**	
14,30/14,50	TEA3-1	A Mobile Landing Platform for Miniature Vertical Take-Off and Landing Vehicles	Dalamagkidis, K.; Ioannou, S.; Valavanis, K.; Stefanakos, E.
14,50/15,10	TEA3-2	A Simple Control Scheme for Mini Unmanned Aerial Vehicles	Ficola, A.; Fravolini, M. L.; Brunori, V.; La Cava, M.
15,10/15,30	TEA3-3	A Comparison of Pose Estimation Algorithms for Machine Vision Based Aerial Refueling for UAVs	Campa, G.; Mammarella, M.; Napolitano, M. R.; Fravolini, M. L.; Pollini, L.; Stolarik, B.
15,30/15,50	TEA3-4	Modeling and analysis of a reduced-complexity ducted MAV	Marconi, L.; Naldi, R.; Sala, A.
15,50/16,10	TEA3-5	Optimal Path and Tracking Control of an Autonomous VTOL Aircraft	Ailon, A.
	TEA4	**Process control 2**	
14,30/14,50	TEA4-1	Method for Optimal Control Calculation of a Fed-batch Fermentation Process	Tzoneva, R. ;
14,50/15,10	TEA4-2	Standard Linux for Embedded Real-time Manufacturing Control Systems	Bruzzone, G.; Caccia, M.; Bertone, A.; Ravera, G.
15,10/15,30	TEA4-3	Minimum Startup Time Control of an Ion Exchange Process Used for Water Desalination	Dube, M. N.; Tzoneva, R.
15,30/15,50	TEA4-4	Virtual Instruments for the What-if Analysis of a Process for Pollution Minimization in an Industrial Application	Fortuna, L.; Graziani, S.; Xibilia, M. G.; Napoli, G.
15,50/16,10	TEA4-5	Temperature Modelling of a Biochip for DNA Analysis	Costa, B. A.; Lemos, J. M.; Piedade, M. S.; Sousa, L.; Almeida, T.; Germano, J.; Freitas, P. Ferreira, H.
	TLA1	**Control of electro/mechanical systems**	
16,40/17,00	TLA1-1	Synchronization of Mechanical Systems with a New Van der Pol Chaotic Oscillator	Benitez, S.; Aguilar, L. T.; Acho, L.
17,00/17,20	TLA1-2	Finite-Time Control of Linear Mechanical Systems Subject to Non-smooth Impacts	Abdallah, C. T.; Potini, A.; Tornambe, A.; Menini, L.; Dorato, P.
17,20/17,40	TLA1-3	Non-Identifier-Based Adaptive Speed Control for a Two Mass Flexible Servo System: Consideration of Stability and Steady State Accuracy	Schuster, H.; Westermaier, C.; Schröder, D.
17,40/18.00	TLA1-4	Adaptive Pulse Width/Phase Modulated Controller for a High Frequency Active Electro-Hydraulic Pump System	Koveos, Y.; Tzes, A.; Kolyvas, E.; Tshalis, D.
	TLA2	**Fault detection**	
16,40/17,00	TLA2-1	Robust Detection of Incipient Faults: an Active Approach	Nikoukhah, R.; Campbell, S. L.

17,00/17,20	TLA2-2	Fault Detection and Isolation in Aircraft Systems using Stochastic Nonlinear Modelling of Flight Data Dependencies	Dimogiannopoulos, D. G.; Hios, J.; Fassois, S. D.
17,20/17,40	TLA2-3	Applicability of Standard Formulation Parametric Fault Detection Methods	Felício, P.; Lourtie, P.
17,40/18.00	TLA2-4	LPV Fault Detection of Glucose-insulin System	Kovacs, L.; Kulcsar, B.; Bokor, J.; Benyo, Z.
	TLA3	**Motor and field control control**	
16,40/17,00	TLA3-1	Direct Field-Oriented Control using Backstepping Technique for Induction Motor Speed Control	Bousserhane, I. K.; Hazzab, A.; Rahli, M.; Kamli, M.; Mazari, B.
17,00/17,20	TLA3-2	Control of Switched Reluctance Motor Containing a Linear Model	Ayaz, M.; Yildiz, A. B.
17,20/17,40	TLA3-3	Global Adaptive Learning Control for Current-fed Induction Motor Servo Drives	Marino, R.; Tomei, P.; Verrelli, C. M.
17,40/18.00	TLA3-4	On Three-Phase Six-Switches Voltage Source Inverter: A 150° Conduction Mode	Saied, M. H.; Mostafa, M. Z.; Abdel-Moneim, T. M.; Yousef, H. A.
	TLA4	**Appliances and Home Automation**	
16,40/17,00	TLA4-1	Combustion Control in Domestic Boilers using an Oxygen Sensor	Conte, G.; Cesaretti, M.; Scaradozzi, D.
17,00/17,20	TLA4-2	Integration of Digital Appliances in Demand Side Management Systems	Cascio, V.; Bernasconi, S.; Sauba, G.; Mendigutxia, J.; Kung, A
17,20/17,40	TLA4-3	Modelling and Design of the Half-bridge Resonant Inverter for Induction Cooking Application	Beato, A.; Bocchiola, C,; Frattesi, S.
17,40/18.00	TLA4-4	A Modern Approach to the Automatic Design and Testing of Domestic Appliances	Andrenacci, L.; Frattesi, S.; Pasqualini, L.; Starna, L.
Friday, JUNE 30, 2006			
	FP		**Plenary**
9,00/10,00	**FP**	Control Oriented Models & Feedback Design in Fluid Flow Systems: A Review	Tadmor, G.; Noack, B. R.; Morzy´nski, M.
	FM1	**Mobile robots and multi-robot systems**	
10,30/10,50	FM1-1	Experimental Validation of a Real-Time Sensor-Based Fault Detection and Isolation System for Unmanned Ground Vehicles	Monteriù, A.; Asthana, P.; Valavanis, K.; Longhi, S.
10,50/11,10	FM1-2	Deadlock Free Dynamic Resource Assignment in Multi-robot Systems with Multiple Missions: a Matrix-based Approach	Ballal, P.; Giordano, V.; Lewis, F.
11,10/11,30	FM1-3	Decentralized Cohesive Motion Control of Multi-Agent Formations	Sandeep, S.; Fidan, B.; Yu, C.
11,30/11,50	FM1-4	Sample-Based HZD Control for Robustness and Slope Invariance of Planar Passive Bipedal Gaits	Westervelt, E. R.; Morris, B.; Farrell, K. D.

11,50/12,10	FM1-5	Observer-based Control for Absolute Orientation Estimation of a Five-link Walking Biped Robot	Lebastard, V.; Aoustin, Y.; Plestan, F.
12,10/12,30	FM1-6	Collaboration among Members of a Team: a Heuristic Strategy for Multi-Robot Exploration	Giannetti, L.; Valigi, P.
	FM2	**Control systems 4**	
10,30/10,50	FM2-1	Controllability to Zero of Positive Bilinear Discrete-time Systems with Delays	Kaczorek, T.
10,50/11,10	FM2-2	Zero Coprime System Equivalence of Singular 2-D Linear Models	Boudellioua , M. S.; Karampetakis, N. P.
11,10/11,30	FM2-3	Numerator-Denominator Structures of n-D MFDs	Pugh, A. C.; Hayton, G. E.; El-Nabrawy, E. M. O.; Karampetakis, N. P.
11,30/11,50	FM2-4	Robust Exact Model Matching via Finite Precision Dynamic Output Feedback	Koumboulis, F. N.; Tzamtzi, M. P.; Skarpetis, M. G.
11,50/12,10	FM2-5	Parameter Tuning and Hardware Implementation of a Non Integer Order PID Controller	Brunno, F.; Caponetto, R.; Fortuna, L.; Porto, D.
12,10/12,30	FM2-6	Robust Control of Wiener Systems: A Case Study	Biagiola, S.; Garcia, A.; Agamennoni , O.; Figueroa, J.
	FM3	**Nonlinear systems and control**	
10,30/10,50	FM3-1	Symbolic Computation for Nonlinear Systems using Quotients over Skew Polynomial Ring	Halas, M.; Huba, M.
10,50/11,10	FM3-2	Global Output Tracking for a Class of Nonlinear Systems by Output Feedback	Alimhan, K.; Inaba, H.
11,10/11,30	FM3-3	On the Region of Asymptotic Stability of Nonlinear Quadratic Systems	Amato, F.; Cosentino, C.; Merola, A.
11,30/11,50	FM3-4	Exergy and Irreversible Entropy Production Thermodynamic Concepts for Control Design: Nonlinear Systems	Robinett, R. D. III; Wilson, D. G.
11,50/12,10	FM3-5	On Classical State Space Realizability of Bilinear Input-Output Differential Equations	Kotta, Ü.; Mullari, T.; Kotta, P.; Zinober, A. S. I.
12,10/12,30	FM3-6	Web-Based Tools for Exact Linearization Control Design	Ondera, M.; Huba, M.
	FM4	**Marine Robots Guidance and Control** **Invited Session. Organizers: S. Zanoli and G. Indiveri**	
10,30/10,50	FM4-1	An Adaptive Law for Guidance and Control of Remotely Operated Vehicles	Antonelli, G.
10,50/11,10	FM4-2	An Optimal Guidance Scheme for Cross-track Control of Underactuated Underwater Vehicles	Børhaug, E.; Pettersen, K. Y.; Pavlov, A.
11,10/11,30	FM4-3	DC Motor Control Issues for UUVs.	Indiveri, G.; Parlangeli, G.; Zanoli, S. M.
11,30/11,50	FM4-4	Robust Reconfigurable Control for Recovery from Stern and Bow Plane Jams in Underwater Vehicles	Soucacos, P. P.; Beale, G. O.

11,50/12,10	FM4-5	Autotuning Autopilots for Micro-ROVs	Vukic, Z.; Miškovic, N.; Barišic, M.; Tovornik, B.
	FEA1	**Nonlinear observers and their applications** **Invited Session. Organizers: S. Diop and L. Fridman**	
14,30/14,50	FEA1-1	Robust State Estimation of Linear Neutral-type Delay Systems: a Convex Optimization Setting	Ibrir, S.; Diop, S.
14,50/15,10	FEA1-2	A Differential Algebraic Approach to Anaerobic Digestion Estimation Problems	Diop, S.; Simeonov, I.
15,10/15,30	FEA1-3	Full Order Unknown Inputs Observers Design For Delay Systems	Darouach, M.
15,30/15,50	FEA1-4	High-Order Sliding-Mode Observer for Linear Systems with Unknown Inputs	Fridman, L.; Levant, A.; Davila, J.
15,50/16,10	FEA1-5	Comparison of two Interconnected Observers for Sensorless Induction Motor Control via a Low Frequencies Benchmark	Ghanes, M.; De Leon, J.; Glumineau, A.
	FEA2	**Control systems 5**	
14,30/14,50	FEA2-1	Robust PI Controllers for Command Following with Application to An Electropneumatic Actuator	Koumboulis, F. N.; Skarpetis, M. G.; Tzamtzi, M. P.
14,50/15,10	FEA2-2	Robust Tracking and Disturbance Attenuation Controllers for Automatic Steering	Skarpetis, M. G.; Koumboulis, F. N.; Ntellis, A. S.
15,10/15,30	FEA2-3	A SLICOT Implementation of a Modified Newton's Method for Algebraic Riccati Equations	Sima, V.; Benner, P.
15,30/15,50	FEA2-4	Controller Design Based on the 1st Order Constrained Dynamics	Huba, M.; Kamensky, M.
15,50/16,10	FEA2-5	Implementability of Regulation and Partial Decoupling of MIMO Plants	Gessing, R.
	FEA3	**H2/Hinfinity and optimal control**	
15,30/15,50	FEA3-1	Robust Fault Detection in a Mixed H_2/H_infinity Setting: The Discrete - Time Case	Khosrowjerdi, M. J.; Safari-Shad, N.; Nikoukhah, R.
15,10/15,30	FEA3-2	Static Output-Feedback H_{infinity} Control of a Class of Stochastic Hybrid Systems with Wiener Process	Aberkane, S.; Ponsart, J. C.; Sauter, D.
14,30/14,50	FEA3-3	H_infinity Control of a Teleoperation Drive-by-Wire System with Communication Time-Delay	Sename, O.
14,50/15,10	FEA3-4	The H_2 Control Problem: State-space and Transfer-function Solutions	Kucera, V.

15,50/16,10	FEA3-5	A Multi-level Algorithm for the Finite Horizon LQ Optimal Control Problem with Assigned Final State: Additive and Multiplicative Procedures	Zattoni, E.
	FEA4	**Control of Over-actuated Systems: Application to Guidance and Control of Aerospace, Marine and Terrestrial Vehicles** **Invited Session. Organizers: A.Serrani and M. Bolender**	
14,30/14,50	FEA4-1	Adaptive Optimizing Dynamic Control Allocation Algorithm for Yaw Stabilization of an Automotive Vehicle using Brakes	Tjonnas, J.; Johansen, T. A.
14,50/15,10	FEA4-2	A Survey of Control Allocation Methods for Ships and Underwater Vehicles	Fossen, T. I.; Johansen, T. A.
15,10/15,30	FEA4-3	Control Allocation for Overactuated Systems	Oppenheimer, M. W.; Doman, D. B.; Bolender, M. A.
15,30/15,50	FEA4-4	Application of Piecewise Linear Control Allocation to Reusable Launch Vehicle Guidance and Control	Bolender, M. A.; Doman, D. B.; Oppenheimer, M. W.
15,50/16,10	FEA4-5	Tracking with Steady-State Optimization: an Application to Air-Breathing Hypersonic Vehicle Control	Sigthorsson, D. O.; Serrani, A.
	FLA1	**Closed-loop control of fluids** **Invited Session. Organizers: C. Rowley and A.Serrani**	
16,40/17,00	FLA1-1	Adaptive Flow Control using Slope Seeking	King, R.; Becker, R.; Feuerbach, G.; Henning, L.; Petz, R.; Nitsche, W.; Lemke, O.; Neise, W.
17,00/17,20	FLA1-2	Experimental Results and Bifurcation Analysis on Scaled Feedback Control for Subsonic Cavity Flows	Yuan, X.; Caraballo, E.; Debiasi, M.; Little, J.; Serrani, A.; Ozbay,; H.Samimy, M.
17,20/17,40	FLA1-3	Reduced-order Models of Linearized Channel Flow using Balanced Truncation	Rowley, C. W.; Ilak, M.
17,40/18.00	FLA1-4	Control Law Design for Channel Flow - 2D Designs and 3D Performance Evaluation	O'Dea, E.; Tutty, O. R.; Rogers, E.
	FLA2	**Control systems 6**	
16,40/17,00	FLA2-1	Robust PID Control for a Micro-Actuator with Structural Uncertainty	Vagia, M.; Koveos, Y.; Nikolakopoulos, G.; Tzes, A.
17,00/17,20	FLA2-2	A Simulated Annealing Controller for Sloshing Suppression in Liquid Transfer with Delayed Resonators	Tzamtzi, M. P.; Koumboulis, F. N.; Kouvakas, N. D.; Panagiotakis, G. E.
17,20/17,40	FLA2-3	A Cooperative Local Observers-based Control for Web Handling Systems: a Dilated LMI Solution	Claveau, F.; Chevrel, Ph.; Yagoubi, C. C.

17,40/18.00	FLA2-4	Design of Decoupled IMC-Based PI Controller for MIMO Process	Harinath, E.; Mann, G.
	FLA3	**Systems Biology Invited Session. Organizer: L. Giarrè**	
16,40/17,00	FLA3-1	Modeling and Analysis of a Bacterial Stochastic Switch	Munsky, B.; Khammash, M.
17,00/17,20	FLA3-2	A Note on Monotone Systems with Positive Translation Invariance	Angeli, D.; Sontag, E. D.
17,20/17,40	FLA3-3	A Minimal Model Describing the Effect of Drug Administration on Tumor Growth Dynamics	De Nicolao, G.; Magni, P.; Bianchini, G.; Germani, M.; Simeoni, M.; Poggesi, I.; Rocchetti, M.
17,40/18.00	FLA3-4	Identification of Replicator-mutator Models	Falugi, P.; Giarrè, L.
	FLA4	**Autonomous Surface Craft**	
		Invited Session. Organizer: M. Caccia	
16,40/17,00	FLA4-1	Modelling and Identification of the Charlie2005 ASC	Caccia, M.; Bruzzone, G.; Bono, R.
17,00/17,20	FLA4-2	Autonomous Surface Craft: Prototypes and Basic Research Issues	Caccia, M.
17,20/17,40	FLA4-3	Soft Computing Design of a Linear Quadratic Gaussian Controller for an Unmanned Surface Vehicle	Naeem, W.; Sutton, R.; Chudley, J.
17,40/18.00	FLA4-4	Vehicle and Mission Control of the DELFIM Autonomous Surface Craft	Alves, J.; Oliveira, P.; Oliveira, R.; Pascoal, A.; Rufino, M.; Sebastião, L.; Silvestre, C.

PROGRAM AT A GLANCE

	Wednesday, JUNE 28, 2006				
8,45/9,00	***OPENING ADDRESS***				
9,00/10,00	**WP**				
	Aerospace Controls: The Way Forward Speaker: Dr. S. S. Banda				
10,00/10,30	***COFFEE***				
10,30/12,30	**WM1**	**WM2**	**WM3**	**WM4**	
	Advances in Unmanned Aerial Vehicle Technology, With Wireless Sensor Network Applications	*Control Systems 1*	*Planning and Intelligent Control Techniques for Unstructured Robotic Environments: The Research Program PICTURE*	*Topics in Systems Identification*	
12,30/14,30	***LUNCH***				
14,30/16,10	**WEA1**	**WEA2**	**WEA3**	**WEA4**	
	Aircrafts and Aerial Vehicles 1	*Observation and Filtering*	*Infinite Dimensional Control Systems*	*Robotics 1*	
16,10/16,30	***COFFEE***				
16,40/18,00	**WLA1**	**WLA2**	**WLA3**	**WLA4**	
	Control of Suspension Systems	*Switching and Hybrid Systems*	*Stability and Stabilization Problems*	*Robotics 2*	
	Thursday, JUNE 29, 2006				
9,00/10,00	**TP**				
	Systems Biology of Group Decision Making Speaker: Prof. K. M. Passino				
10,00/10,30	***COFFEE***				
10,30/12,30	**TM1**	**TM2**	**TM3**	**TM4**	**TM5**
	Swarm and Formation Control	*Neural Networks and Applications*	*Mobile Robots*	*Control Systems 2*	*Process Control 1*
12,30/14,30	***LUNCH***				
14,30/16,10	**TEA1**	**TEA2**	**TEA3**	**TEA4**	
	Control Systems 3	*Distributed, Networked and Teleoperated Systems*	*Aircrafts and Aerial Vehicles 2*	*Process Control 2*	
16,10/16,30	***COFFEE***				
16,40/18,00	**TLA1**	**TLA2**	**TLA3**	**TLA4**	

	Control of Electro/mechanical Systems	*Fault Detection*	*Motor and Field Control*	*Appliances and Home Automation*	
	Friday, JUNE 30, 2006				
9,00/10,00	**FP**				
	Control Oriented Models and Feedback Design in Fluid Flow Systems: A Review Speaker: Prof. G. Tadmor				
10,00/10,30	***COFFEE***				
10,30/12,30	**FM1**	**FM2**	**FM3**	**FM4**	
	Mobile Robots and Multi-robot Systems	*Control Systems 4*	*Nonlinear Systems and Control*	*Marine Robots Guidance and Control*	
12,30/14,30	***LUNCH***				
14,30/16,10	**FEA1**	**FEA2**	**FEA3**	**FEA4**	
	Nonlinear Observers and their Applications	*Control Systems 5*	*H_2/H_infinity and Optimal Control*	*Control of Over-actuated Systems: Application to Guidance and Control of Aerospace, Marine and Terrestrial Vehicles*	
16,10/16,30	***COFFEE***				
16,40/18,00	**FLA1**	**FLA2**	**FLA3**	**FLA4**	
	Closed-loop Control of Fluids	*Control Systems 6*	*Systems Biology*	*Autonomous Surface Craft*	