
MED'03 Conference
Author Index

A

Abdallah, Chaouki

(hokayem@eece.unm.edu)

T7-029: Quasi-Monte Carlo Methods in Robust Control Design

Abdellatif, Housseem

T1-005: Nonlinear Identification of Vehicle's Coupled Lateral and Roll Dynamics

Abderrahim, Mohamed

IV11-03: Anti-Swinging Input Shaping Control of an Automatic Construction Crane

Abdessameud, Abdelkader

(abdel_ssameud@hotmail.com)

T2-033: Robot Manipulators Control via a Variable Structure Observer

T2-034: Nonlinear Observer Design for Robot Manipulators. A Survey

Abdi, Javad

T3-019: Emotional Temporal Difference Learning Based Intelligent Controller

Abu-Khalaf, Murad

(abukhalaf@arri.uta.edu)

T3-014: Nearly Optimal Control Laws for Nonlinear Systems with Saturating Actuators
Using a Neural Network HJB Approach

Adams, Bryan

T7-059: Empirical Emulators for Process Monitoring and Optimization

Aguilar, R.M.

T3-009: A Planning for Neural Networks Teaching in Control Using a Java-Based
Toolkit

Ahmad, Nizar

(nahmad01@yahoo.com)

T1-003: A New Continuous Time Adaptive Backlash Inverse Controller and
Applications to Output Backlash Compensation

Aizicovici, Sergiu

IV10-01: Convergence Results for Continuous Descent Methods

Akesson, Knut

(ka@s2.chalmers.se)

T4-014: Supremica - A Tool for Verification and Synthesis of Discrete Event
Supervisors

Akinfiiev, Teodor

(teodor@iai.csic.es)

T2-020: Vertical Movement of Resonance Hopping Robot with Electric Drive and Simple Control System

T7-046: Modelling and Control of the Dual Smart Drive

Akpolat, Zuhtu Hakan

(hakpolat@firat.edu.tr)

T1-006: Discrete Time Reaching Law Speed Control of DC Motor Drives

T3-012: Fuzzy Control of Mean Arterial Pressure During Anesthesia

Alaeddine, Tarek

IV09-02: Numerical Stability of Green-Galerkin Thermal Control Method in Infinite Dimensional Dynamic Systems

Alahakoon, S.

T7-067: State Feedback Controller for Distributed Systems with Non-Deterministic Time Delays

Alastruey, Carlos F.

(karlos@unavarra.es)

T1-001: Asymptotic Stabilizability of Non-Linear Delay Systems by Using Delayed Output

T7-011: Modelling of Transient Currents in Transmission Lines with Phase Delay and Inductances

Alejo, Dominique

T7-061: A Simple Model Estimator for Multiple Model Control of a Buck DC-DC Converter

Alexandridis, Alex

(alexalex@chemeng.ntua.gr)

T3-027: Modeling of Continuous Digesters Using Adaptive RBF Neural Network Models

Al-Hiddabi, Saif

(hiddabi@squ.edu.om)

T7-002: Design of a Flight Control System for a Non-Minimum Phase 5 DOF Aircraft Model

Ali, Yousnadj

T2-005: Optimization by Simulated Annealing of the Power Necessary to a Mobile Manipulator

Allgower, Frank

T7-078: Finite Time Convergent Observers for Linear Time-Varying Systems

Al-Mumin, Mohammed

T1-003: A New Continuous Time Adaptive Backlash Inverse Controller and Applications to Output Backlash Compensation

Altinors, Ayhan

T1-006: Discrete Time Reaching Law Speed Control of DC Motor Drives

Alvarez-Gallegos, Jaime

IV07-02: Robust Control of an Underactuated Planar 2R Manipulator

Al-Zohary, T. A.

(tt_tamar@yahoo.com)

T5-001: Adaptive Control for Nonlinear Multivariable Systems Using a Single-Layer Neural Network and Conventional Linear Controller

Amirifar, Ramin

(amirifar@mehr.sharif.edu)

T7-136: A New Sufficient Condition for Stability of Decentralized Control: An LMI Approach

Anagnostopoulos, C.

T3-031: A Probabilistic Neural Network for Human Face Identification Based on Fuzzy Logic Chromatic Rules

Anagnostopoulos, Ioannis

(janag@telecom.ece.ntua.gr)

T3-031: A Probabilistic Neural Network for Human Face Identification Based on Fuzzy Logic Chromatic Rules

Andrasik, Anton

(andrasik@chtf.stuba.sk)

T3-030: Hybrid Modeling Based Adaptive Neural Controller

Andreadis, Ioannis

(iandread@ee.duth.gr)

T7-008: Error Computation in the Uniform Color-Spaces SRGB and CIEL*a*b*

T7-032: Soft Morphological Color Image Processing: A Fuzzy Approach

Annaswamy, Anuradha M.

T7-084: Stability Analysis of Low-Order Combustion Systems

Antonic, Radovan

(antonic@pfst.hr)

T3-023: Fuzzy Modelling and Control of Marine Diesel Engine Process

T7-130: Stochastic Model of Irradiation for the Analysis of the Solar System

T8-003: Scope and Application of Reconfigurable Control

Antoniou, E. N.

(antoniou@math.auth.gr)

IV01-08: A Descriptor Systems Package for MATHEMATICA

IV02-01: A Numerical Method for the Computation of Proper Denominator Assigning
Compensators for Strictly Proper Plants**Arai, Tatsuo**

IV11-04: Tension Control and Force Estimation for Hybrid Drive Parallel Arm

Armada, M.T2-020: Vertical Movement of Resonance Hopping Robot with Electric Drive and
Simple Control System

T7-046: Modelling and Control of the Dual Smart Drive

Arnost, Rene

(arnost@kky.zcu.cz)

T7-102: A New Approach to Stochastic Causal System Continualization

Arteaga, Marco A.

(arteaga@verona.fi-p.unam.mx)

T2-036: Experimental Results on the Control of Cooperative Robots without Velocity
Measurements**Arvanitis, Kostas**

(karvan@aua.gr)

T7-040: Controller Tuning for Integrating Processes with Time Delay Part I: IPDT
Processes and the Pseudo-Derivative Feedback Control ConfigurationT7-041: Controller Tuning for Integrating Processes with Time Delay Part II:
Robustness Analysis under Structured Parametric UncertaintyT7-042: Controller Tuning for Integrating Processes with Time Delay Part III: The Case
of First Order Plus Integral Plus Dead-Time Processes**Asran, A. S.**

(asran@eng.aast.edu)

T3-008: A Modified Adaptive Fuzzy Control System Algorithm

Assuncao, Ventura

(ventura@ifr.ing.tu-bs.de)

T2-010: Hybrid Force Control for Parallel Manipulators

Athanasopoulou, Eleftheria

T4-015: Aliasing Probability Calculations in Testing Sequential Circuits

Athans, Michael*(athans@isr.ist.utl.pt)*

T5-014: Identification of Mass-Spring-Dashpot Systems Using Multiple-Model

Adaptive Estimation (MMAE) Algorithms

T7-096: A Hybrid Automata Modell of TCR Triggering Dynamics

T8-001: Nonlinear Filtering for a Nonlinear Vision-Based System for the Relative
Tracking of Two Marine Vehicles**Auner, Gregory**T2-016: Recognition and Modeling of Smart Sensor Integration on Robotic Control
Application**Avci, Engin**

T3-012: Fuzzy Control of Mean Arterial Pressure During Anesthesia

Azad, A.M.*(a.azad@ee.unsw.edu.au)*T6-005: An Approach to Optimal and Robust Control of Multi-Rate Sampled-Data
Systems

B

Baek, J. H.*(jhbaekb@lginnotek.com)*

T1-010: Analysis on the Influence of Backlash and Motor Input Voltage in Geared Servo System

Bafas, George

T3-027: Modeling of Continuous Digesters Using Adaptive RBF Neural Network Models

Bakaric, Vedran*(bakaric@hrbi.hr)*

T8-003: Scope and Application of Reconfigurable Control

Baker, Duncan I.

IV12-07: An Online Robot Educational Project

Balaguer, C.

IV11-03: Anti-Swinging Input Shaping Control of an Automatic Construction Crane

Balakrishnan, S. N.

T7-112: Suboptimal Control of a One-Dimensional Nonlinear Heat Equation Using POD and θ - D Techniques

Balas, G.

T7-083: Inversion of LPV Systems

Balestrino, A.

T7-016: A Class of Numerical Algorithms for Efficient Approximation of Maximum Entropy Estimates of Probability Density Functions

Balic, Joze*(joze.balic@uni-mb.si)*

T3-010: Neural Network Based CNC Control of Machine Tools

Banyasz, Cs.*(banyasz@sztaki.hu)*

T5-016: Robust Stability Limit and Robustness Measure for a GTDOF System

Baras, John*(baras@isr.umd.edu)*

T4-011: Markov Processes with State-Dependent Failure Rates and Application to RED and TCP Window Dynamics

T7-043: A New Adaptive Aggregation Algorithm for Infinite Horizon Dynamic Programming

Barbu, Marian

(Marian.Barbu@ugal.ro)

T3-028: Self-Tuning of PI Controllers Using Fuzzy Techniques

T3-029: Real Time Supervising of the Primary Cooling System for the Continuous Casting Installations Using Artificial Intelligence Techniques

Barraud, A.

IV02-06: Numerical Accurate Computations for Ellipsoidal State Bounding

Beale, Guy

(gbeale@gmu.edu)

T7-055: Controller Reconfiguration for Stern Plane Jams in Underwater Vehicles

Beghi, Alessandro

(beghi@dei.unipd.it)

T1-016: A Note on the Relationships between High-Gain State Feedback and Relay Systems

Ben Cheikh, Yosser

T7-138: Largest Lyapunov Exponent Assignment: A Genetic/Pole Placement Approach

Benner, Peter

(benner@math.tu-berlin.de)

IV01-01: Solving Algebraic Riccati Equations with SLICOT

Benzaouia, Abdellah

(benzaouia@ucam.ac.ma)

T7-025: The Regulator Problem for Linear Systems with Constrained Control: An LMI Approach

T7-026: Partial Eigenstructure Assignment by State Feedback: An LMI Approach

Berovic, Daniel

(daniel.berovic@ic.ac.uk)

T6-009: The Inventory Problem: A Dynamic Programming Approach

Binonwangan, Martian C.

T5-006: Vehicle Health Monitoring System Using Multiple-Model Adaptive Estimation

IV02-02: Space Time Adaptive Processing Using State-Space Methods and Kalman Filtering

Bischoff, A.

T7-129: Virtual Laboratory for Real-Time Control of Inverted Pendulum/Gantry Crane

Bisiacco, Mauro

T1-016: A Note on the Relationships between High-Gain State Feedback and Relay Systems

Bispo, Carlos

(cfb@isr.ist.utl.pt)

T4-013: Performance Improvement through Active Idleness

Bistak, Pavol

(bistak@elf.stuba.sk)

T7-113: Organising Tele-Experiments for Control Education

Bobal, Vladimir

IV04-04: Design of Controllers for Unstable Time Delay Systems Using Polynomial Method

IV05-03: Application of Controllers Based on Polynomial Methods to Coupled Drives Laboratory Process

Bobtsov, Alexey

(bobtsov@mail.ru)

T5-012: Adaptive Control Law for Uncertain System with Static Nonlinearity

Bodor, Robert

T7-030: Vision-Based Human Tracking and Activity Recognition

Bogdan, Stjepan

(stjepan.bogdan@fer.hr)

T7-141: Adaptive Control Scheme Based on Hybrid Adaptation of Lead-Lag Compensator Parameters

Boitier, Vincent

T7-053: Nonlinear Control of a Photovoltaic Converter

Bokor, Jozsef

T7-080: Rollover Avoidance for Steer-by-Wire Vehicles by Using Linear Parameter Varying Methods

T7-083: Inversion of LPV Systems

T7-101: Applying Orthogonal Rational Signal Representations in System Change Detection

Boudelloua, Mohamed S.

(boudell@squ.edu.om)

IV04-05: A Pencil Equivalent of a General 2-D Polynomial Matrix

Bouzouia, B.

T2-007: Generalized Cooperative Impedance Control of Dual-Arm for Assembly Task

Boz, Ali Fuat

T2-038: Design and Implementation of a Vision Based Control System towards Moving Object Capture for a 3-Joint Robotic Manipulator

Breitholtz, Claes

T5-010: Induced L2-Gain Domain for LPV-Gain Scheduled Control Systems

Bruzelius, Fredrik

(bruze@s2.chalmers.se)

T5-010: Induced L2-Gain Domain for LPV-Gain Scheduled Control Systems

Bruzzone, L.

IV06-01: Mechatronic Design of a Parallel Robot for High-Speed, Impedance-Controlled Manipulation

Buosi, Cleber

T2-035: Output Feedback Nonlinear Hinf Control of Underactuated Manipulators

Burt, Ian

T2-018: A Control System for Teams of Off-the-Shelf Scouts and MegaScouts

C

Caiti, Andrea*(caiti@dsea.unipi.it)*

T7-016: A Class of Numerical Algorithms for Efficient Approximation of Maximum Entropy Estimates of Probability Density Functions

Callegari, M.

IV06-02: On the Force-Controlled Assembly Operations of a New Parallel Kinematics Manipulator

Cao, Xi-Ren*(eecao@ee.ust.hk)*

T7-062: Performance Sensitivities for Parameterized Systems

Caraman, Sergiu

T3-028: Self-Tuning of PI Controllers Using Fuzzy Techniques

Carneiro, Jorge

T7-096: A Hybrid Automata Modell of TCR Triggering Dynamics

Carotenuto, L.

T7-014: Eigenvalue Assignment with Spectral Condition Number Optimization by Static Output Feedback

Caruso, G.

IV08-01: On Actuators/Sensors Placement for Collocated Flexible Plates

Cassandras, C.G.*(cgc@bu.edu)*

T7-034: Perturbation Analysis of Stochastic Fluid Models with Respect to the Fluid Arrival Process

Castro-Linares, Rafael

IV07-02: Robust Control of an Underactuated Planar 2R Manipulator

Ceanga, Emil

T3-028: Self-Tuning of PI Controllers Using Fuzzy Techniques

T3-029: Real Time Supervising of the Primary Cooling System for the Continuous Casting Installations Using Artificial Intelligence Techniques

Cerny, Vaclav*(vcerny@kky.zcu.cz)*

T1-014: Separation Principle for a Class of Non-Linear Systems

Chaoui, F.Z.

T7-007: Nonlinear and Adaptive Control of Buck-Boost Power Converters

Charalambous, C.D.

IV10-04: Burgers Model of Turbulence: Probabilistic Representations, Free Energy and Large Deviations

Chareyron, Sophie

(sophie.chareyron@inrialpes.fr)

T8-001: Nonlinear Filtering for a Nonlinear Vision-Based System for the Relative Tracking of Two Marine Vehicles

Chaves, Miguel

(mchaves@est.ips.pt)

T7-123: Experimental Implementation of an Electromagnetic Automobile Suspension System

Chen, Duen-Kai

T4-010: Apply Adaptive and Cooperative MAS to Urban Traffic Signal Control

Chen, Fang

T7-027: Research on Dynamic Lift Coefficient of Lift Feedback FIN Stabilizer and Its PIDNN Controller

Chen, Jie

T7-018: Performance Limitations of Discrete-Time Systems in Tracking Sinusoidal Signals

Chen, Ruey-Shun

T4-010: Apply Adaptive and Cooperative MAS to Urban Traffic Signal Control

Chentouf, Boumediene

IV04-05: A Pencil Equivalent of a General 2-D Polynomial Matrix

Chevrel, P.

T7-099: Decentralized Control for Winding Systems: Which Incidence on Reachable Performances?

Chipophop, Boonruk

T7-023: OTA – Based Control System of Active Power Filter for Harmonic and Reactive Power Compensation

Cho, Young-Sik

T7-033: Visual Servoing Using Online Calibration

Christova, Nikolinka

T4-017: Implementation of Fuzzy Cognitive Maps for Production Planning of Plant Control Systems

Chung, Byeong-Mook

(bmchung@yu.ac.kr)

T7-044: A Tuning Method of Multi Variable PID Gains Using Jacobian

Ciferri, Roberto

T7-125: Decentralized Control Networks of Multirate Sampled-Data Systems

Cirka, Lubos

IV05-01: H2 Optimal Control of a Chemical Reactor

Claveau, Fabien

(fabien.claveau@ircyn.ec-nantes.fr)

T7-099: Decentralized Control for Winding Systems: Which Incidence on Reachable Performances?

Conte, G.

(conte@popcsi.unian.it)

IV06-04: Design and Operation of a Quadrupedal Robot

Conte, G.

(gconte@popcsi.unian.it)

T7-012: Unknown Inputs, Robust State Observation for Parameter Dependent Linear Systems

Crnekovic, Mladen

T1-009: Sliding Mode Control Applied to Pneumatic Servo Drive

Cunha, Rita

(rita@isr.ist.utl.pt)

T7-069: SimModHeli: A Dynamic Simulator for Model-Scale Helicopters

Curtain, Ruth F.

IV10-02: Recent Results on Reciprocals of Well-Posed Linear Systems

D

Dahleh, Munther A.

T7-110: An Information Theoretic Approach to the Statistical Learning of a Class of Hybrid Systems

Daoutidis, Prodromos

IV09-01: Control of Fluid Flow in the Vertical Bridgman Crystal Growth Process

Datta, Biswa Nath

(dattab@math.niu.edu)

IV02-03: Numerical Methods for Partial Eigenvalue and Eigenstructure Assignments in Vibrating Structures

Davrazos, Gregory

T7-052: Visualized Simulation of Off-Tracking Elimination in the n-Trailer Problem

De Azevedo, Sebastiao Feye

T3-030: Hybrid Modeling Based Adaptive Neural Controller

De La Sen, Manuel

T7-011: Modelling of Transient Currents in Transmission Lines with Phase Delay and Inductances

De Oliveira, M. C.

(mauricio@dt.fee.unicamp.br)

IV01-03: Doing Systems and Control with NCAlgebra, a Symbolic Noncommutative Algebra Toolbox

Deligiannis, Vassilios

(bdeligiannis@ee.upatras.gr)

T7-052: Visualized Simulation of Off-Tracking Elimination in the n-Trailer Problem

Demetriou, Michael A.

(mdemetri@wpi.edu)

IV08-04: Control of Unsteady Electromagnetic Acceleration in Parallel Plate Channels

Derby, Jeffrey

IV09-01: Control of Fluid Flow in the Vertical Bridgman Crystal Growth Process

Derragui, N.

T2-007: Generalized Cooperative Impedance Control of Dual-Arm for Assembly Task

Desbiens, Andre

T7-047: Optimization of a Simulated Iron-Oxide Pellets Induration Furnace

Deur, Josko

(josko.deur@fsb.hr)

T7-133: Automatic Tuning of Electronic Throttle Control Strategy

Di Giamberardino, Paolo

(digiamberardino@dis.uniroma1.it)

T2-030: Control of an Underactuated Underwater Robotic Manipulator

Dierkes, Ulrich

T7-058: Demands of the Decentralized Autonomous Intersection Management on the Steer-by-Wire System in Passenger Cars

Dimogianopoulos, Dimitrios

(dimogian@thefreesite.com)

T2-021: Robot Force Control: Some Comments on System Convergence

Dionisio, Rui

(rvilela@est.ips.pt)

T7-137: Stability Results for Discrete Systems Controlled in the Presence of Interrupted Observations

Diversi, Roberto

T7-089: Kalman Filtering in Symmetrical Noise Environments

Djouadi, S.S.

IV10-04: Burgers Model of Turbulence: Probabilistic Representations, Free Energy and Large Deviations

Dlapa, Marek

(m_dlapa@ft.utb.cz)

IV05-05: μ -Synthesis: Simple Controllers for Time Delay Systems**Dobra, Petru**

(dobra@aut.utcluj.ro)

T7-106: Robust PID Control BLDC Motor via State Feedback Design

Donati, Alessandro

T7-104: Virtual Thermal Sensors for a Spacecraft

Dorato, Peter

(hokayem@eece.unm.edu)

T7-029: Quasi-Monte Carlo Methods in Robust Control Design

Dostal, Petr*(dostalp@ft.utb.cz)*IV04-02: Adaptive Control Based on Plant-Parameterization Using δ -Models

IV04-04: Design of Controllers for Unstable Time Delay Systems Using Polynomial Method

Doumanidis, Haris

IV09-02: Numerical Stability of Green-Galerkin Thermal Control Method in Infinite Dimensional Dynamic Systems

Duarte-Mermoud, Manuel A.

IV07-01: Some Remarks on the Problem of Model Matching by State Feedback

Duncan, T.E.

IV10-03: An Approach to Stochastic Distributed Systems with Fractional Brownian Motion

Dziech, Andrzej

T7-068: Application of Lifting Scheme to Transmultiplexers

E

Economou, John*(J.T.Economou@rmcs.cranfield.ac.uk)*

T2-017: Fuzzy-Sugeno Lateral Tyre Modelling of a Mobile Robot

Eisaka, Toshio*(eisaka@cs.kitami-it.ac.jp)*

T7-082: All Quadratically Stabilizing Controllers for Polytopic LPV Systems

Ekiz, Hüseyin

T2-038: Design and Implementation of a Vision Based Control System towards Moving Object Capture for a 3-Joint Robotic Manipulator

El Fadil, H.

T7-007: Nonlinear and Adaptive Control of Buck-Boost Power Converters

El Faiz, E.

T7-025: The Regulator Problem for Linear Systems with Constrained Control: An LMI Approach

El Faiz, S.

T7-026: Partial Eigenstructure Assignment by State Feedback: An LMI Approach

El-Absy, Hanaa

T7-072: The Numerical Analysis of the Nonlinear Motion of a Flexible Rotating Beam

El-Geneidy, M. M.

T3-008: A Modified Adaptive Fuzzy Control System Algorithm

Elkobrosy, Galal

T7-072: The Numerical Analysis of the Nonlinear Motion of a Flexible Rotating Beam

El-Nabrawy, Eman

IV04-06: Zero Structures of N-D Systems

Elnaggar, Fathy*(fathyf3@yahoo.com)*

T7-072: The Numerical Analysis of the Nonlinear Motion of a Flexible Rotating Beam

Ermolov, Ivan

T3-033: Stability Analysis Method for Fuzzy Cognitive Maps

Ernest, Petr*(ernest@labe.felk.cvut.cz)*

IV07-03: Algorithms for Control of a Rotating Pendulum

Esteves, Jorge

T7-123: Experimental Implementation of an Electromagnetic Automobile Suspension System

T7-124: Experimental and Simulation Results of an Bimotor Electric Vehicle

Ezzine, Jelel

(jelel.ezzine@ieee.org)

T7-138: Largest Lyapunov Exponent Assignment: A Genetic/Pole Placement Approach

F

Fabian, Martin

T4-014: Supremica - A Tool for Verification and Synthesis of Discrete Event Supervisors

Fahlbusch, Stephan

T2-008: Development of a Nanohandling Robot Cell

Fatikow, Sergej

(fatikow@uni-oldenburg.de)

T2-008: Development of a Nanohandling Robot Cell

Fatouros, S.

IV02-05: A Resultant Based Computation of the Greatest Common Divisor of Two Polynomials

IV07-05: Approximate Solutions to Root Clustering Problem

Faucher, Jean

T7-061: A Simple Model Estimator for Multiple Model Control of a Buck DC-DC Converter

Fekri, Sajjad

(sfekri@ieee.org)

T5-014: Identification of Mass-Spring-Dashpot Systems Using Multiple-Model Adaptive Estimation (MMAE) Algorithms

Fernandez, Roemi

(roemi@iai.csic.es)

T7-046: Modelling and Control of the Dual Smart Drive

Fikar, Miroslav

IV05-01: H2 Optimal Control of a Chemical Reactor

Filipovic, Vojislav

(vfilip@eunet.yu)

T5-015: Robust Identification of AR Models Based on Empirical Risk Minimization

Findeisen, Rolf

T7-078: Finite Time Convergent Observers for Linear Time-Varying Systems

Fliess, Michel

IV07-06: On the Control of an Uncertain Rigid Body Dynamics

Flordal, Hugo

T4-014: Supremica - A Tool for Verification and Synthesis of Discrete Event Supervisors

Foito, Daniel

(dfoito@est.ips.pt)

T7-124: Experimental and Simulation Results of an Bimotor Electric Vehicle

Fourlas, George

(gfourlas@central.ntua.gr)

T7-111: Model Based Fault Diagnosis of Hybrid Systems Based on Hybrid Structure Hypothesis Testing

Frakes, D.

IV11-05: Input Shaping Curriculum: Integrating Interactive Simulations and Experimental Setups

Franze, Giuseppe

(franze@deis.unical.it)

T7-014: Eigenvalue Assignment with Spectral Condition Number Optimization by Static Output Feedback

Fujarewicz, Krzysztof

(kfujarewicz@ia.polsl.gliwice.pl)

T6-012: On-Line Gradient Optimization of a Fractional Order Hold

Fujimoto, Hideo

T7-081: Stability of Switching Controlled Chained Systems Based on Time-State Control Form

Fusco, Giuseppe

(fusco@unicas.it)

T7-048: Adaptive Voltage Regulation with Harmonic Distortion Containment Objectives in Electrical Power Systems

G

Galeani, Sergio

- IV08-01: On Actuators/Sensors Placement for Collocated Flexible Plates
- T2-006: State Observers for the Asymptotic Inversion of Nonlinear Maps, When the Reference Trajectory Is Not Differentiable
- T2-022: On Velocity Observers for a Planar Robot Subject to Non-Smooth Impacts

Galkowski, Krzysztof

- IV01-02: MATLAB-Based Toolbox for Analysing Differential Linear Repetitive Processes
- IV02-07: Robust Stabilization of Discrete Linear Repetitive Processes with Application to Physical Example

Galperin, E.A.

- IV01-05: Global Optimization in R^n with Box Constraints and Applications: A Maple Code

Galuszka, Adam

(agaluszka@ia.polsl.gliwice.pl)

- T4-012: Invertible Planning and Non-Cooperative Equilibrium Strategies in Multi-Agent Planning

Garnica, Stefan

- T2-008: Development of a Nanohandling Robot Cell

Garrido, S.

- IV11-03: Anti-Swinging Input Shaping Control of an Automatic Construction Crane

Gaspar, Peter

(gaspar@sztaki.hu)

- T7-080: Rollover Avoidance for Steer-by-Wire Vehicles by Using Linear Parameter Varying Methods

Gatsonis, Nikolaos A.

- IV08-04: Control of Unsteady Electromagnetic Acceleration in Parallel Plate Channels

Gatward, Andrew

- IV12-07: An Online Robot Educational Project

Gaura, Elena

(e.gaura@coventry.ac.uk)

- T7-140: Intelligent Diagnostic for Sensor Arrays

Gazdos, Frantisek

(gazdos@ft.utb.cz)

IV04-02: Adaptive Control Based on Plant-Parameterization Using δ -Models

IV04-04: Design of Controllers for Unstable Time Delay Systems Using Polynomial Method

Geiger, Gerhard

(gerhard.geiger@fh-gelsenkirchen.de)

T7-006: Extending Classical Pipeline Models with Neural Nets

Georgoulas, George

T3-032: Integrated Approach for Classification of Cardiotocograms Based on Independent Component Analysis and Neural Networks

Gerencser, Laszlo

T5-013: Estimation Error in Adaptive Prediction of Hidden Markov Processes

T7-054: Controlled Lyapunov-Exponents with Application in Optimization, Finance and Biology

T7-103: A Behavioral Feedback Model for Financial Markets

Gerke, M.

T7-129: Virtual Laboratory for Real-Time Control of Inverted Pendulum/Gantry Crane

Gershon, Eli

(gershon@eng.tau.ac.il)

T7-050: Static H₂ and H_{inf} Output-Feedback of State Multiplicative Linear Systems**Gessing, Ryszard**

(gessing@ia.gliwice.edu.pl)

T1-015: Sliding Mode Control with Decreased Chattering for Nonminimum Phase Plants

T6-008: About Optimality of Discrete-Time LQ Observer Based Regulator

Gheorghiu, C.

T3-029: Real Time Supervising of the Primary Cooling System for the Continuous Casting Installations Using Artificial Intelligence Techniques

Gillet, Denis

(Denis.Gillet@epfl.ch)

IV12-03: Metrics for QoS in Real-Time Interaction over the Internet

Gimenez, A.

IV11-03: Anti-Swinging Input Shaping Control of an Automatic Construction Crane

Giri, Fouad

(giri@greyc.ismra.fr)

T7-007: Nonlinear and Adaptive Control of Buck-Boost Power Converters

Godoy-Alcantar, Martin

IV07-04: Learning through Gradient-Type Reinforcement for N-Person Repeated
Constrained Games: Counter-Coalition Space Approach

Gokalp, Erdin

T7-009: Integration of Digital Measuring Technology in Gas Insulated Substations (GIS)

Gomez-Ramirez, Eduardo

IV07-04: Learning through Gradient-Type Reinforcement for N-Person Repeated
Constrained Games: Counter-Coalition Space Approach

Gonzalez, Evelio

(evelio@cyc.dfis.ull.es)

T3-005: Evenet2000 as Software Application for System Identification and Control

T3-009: A Planning for Neural Networks Teaching in Control Using a Java-Based
Toolkit

Gramacki, Artur

IV01-02: MATLAB-Based Toolbox for Analysing Differential Linear Repetitive
Processes

Gramacki, Jaroslaw

(J.Gramacki@jie.uz.zgora.pl)

IV01-02: MATLAB-Based Toolbox for Analysing Differential Linear Repetitive
Processes

Groumpos, Peter P.

T3-032: Integrated Approach for Clasification Ofcardiotocograms Based on
Independent Component Analysis and Neural Networks

T3-033: Stability Analysis Method for Fuzzy Cognitive Maps

T4-017: Implementation of Fuzzy Cognitive Maps for Production Planning of Plant
Control Systems

Gu, Kegin

T7-071: On Delay-Dependent Stability in Lossless Propagation Models: a Liapunov-
Krasovskii Analysis

Guccione, S.

IV06-03: Design and Control of an Anthropometric Robotic Leg

Guidone Peroli, G.

T7-012: Unknown Inputs, Robust State Observation for Parameter Dependent Linear
Systems

Guidorzi, Roberto

T7-089: Kalman Filtering in Symmetrical Noise Environments

Guinea, Domingo

T3-006: A Cellular Neural Network System for Real-Time Image Processing

Gutierrez, Luis

(gte915w@prism.gatech.edu)

T3-022: A Hierarchical/Intelligent Control Architecture for Unmanned Aerial Vehicles

H

Hadjicostis, Christoforos*(chadjic@control.csl.uiuc.edu)*

T4-015: Aliasing Probability Calculations in Testing Sequential Circuits

T7-115: A Worst-Case Framework for Perfect Reconstruction of Discrete Data
Transmissions***Hallam, John***T7-065: Performance, Robustness and Effort Cost Comparison of Machine Learning
Mechanisms in FlatLand***Haloua, M.***

T7-007: Nonlinear and Adaptive Control of Buck-Boost Power Converters

Hamerlain, M.

T7-076: PR-Sliding Sectors for Continuous and Discrete Control of an Induction Motor

Hamilton, Alberto

T3-005: Evenet2000 as Software Application for System Identification and Control

T3-009: A Planning for Neural Networks Teaching in Control Using a Java-Based
Toolkit***Hardouin, L.***

T4-009: Some Results on Identification of Timed Event Graphs in Dioids

Hashemi-Hosseini, Arash

T3-016: Applying Intelligent Controllers for Speed Regulation of DC Motors

Heck, Bonnie

T3-022: A Hierarchical/Intelligent Control Architecture for Unmanned Aerial Vehicles

Heimann, Bodo

T1-005: Nonlinear Identification of Vehicle's Coupled Lateral and Roll Dynamics

Helton, J.W.*(helton@ucsd.edu)*IV01-03: Doing Systems and Control with NCAIgebra, a Symbolic Noncommutative
Algebra Toolbox***Hesketh, T.***T6-005: An Approach to Optimal and Robust Control of Multi-Rate Sampled-Data
Systems

Hess, Christopher

IV03-01: Dispersion of a Team of Surveillance and Reconnaissance Robots Based on Repellent Pheromones

Hodouin, Daniel

T7-047: Optimization of a Simulated Iron-Oxide Pellets Induration Furnace

Hoffmann, J.

T1-005: Nonlinear Identification of Vehicle's Coupled Lateral and Roll Dynamics

Hokayem, Peter

(hokayem@eece.unm.edu)

T7-029: Quasi-Monte Carlo Methods in Robust Control Design

Horacek, Petr

IV07-03: Algorithms for Control of a Rotating Pendulum

Horvat, Jasna

(jasna.horvat@koncar-ket.hr)

T7-063: Longitudinal Ventilation Control System in Road Tunnels

Horvat, Krunoslav

(kruno@hrbi.hr)

T1-017: Nonlinear Resonance Jump in Turbine Governor Positioning System

Hoyer, H.

T7-129: Virtual Laboratory for Real-Time Control of Inverted Pendulum/Gantry Crane

Hromcik, Martin

(m.hromcik@c-a-k.cz)

IV05-02: New Package for Effective Polynomial Computation in MATHEMATICA

IV05-04: New Algorithm for Polynomial Plus-Minus Factorization Based on Band Structured Matrix Decomposition

Hrusak, Josef

T1-014: Separation Principle for a Class of Non-Linear Systems

Hu, Yi

(yihuyxy@utdallas.edu)

T7-017: A New Speech Enhancement Method Based on Wavelet Thresholding the Multitaper Spectrum

Huang, Xianming

(huangxm@email.com)

T3-021: A New Application of Fuzzy Neural Network to ECG Recognition Based on Rough Set Theory

Huba, Mikulas*(huba@elf.stuba.sk)*

T7-094: The Helicopter Rack Control

Huelsen, Helge

T2-008: Development of a Nanohandling Robot Cell

Huey, John*(gt0241a@prism.gatech.edu)*IV11-05: Input Shaping Curriculum: Integrating Interactive Simulations and
Experimental Setups

I

Iacoviello, D.*(iacoviello@unicas.it)*

T3-025: Neural Networks Application in an AISI 304L Intergranular Corrosion
Resistance Analysis

Iacoviello, Francesco*(iacoviello@unicas.it)*

T3-025: Neural Networks Application in an AISI 304L Intergranular Corrosion
Resistance Analysis

Ignatova, Maya*(ignatova@jusi.bas.bg)*

T7-051: Adaptive Biomass Observer on the Basis of Measurements of Oxygen

Inooka, Hikaru

T7-073: Selection of the Initial Controllers in Design of the Critical Control Systems

Inoue, Kenji

IV11-04: Tension Control and Force Estimation for Hybrid Drive Parallel Arm

Ioannidis, Stratos

T4-002: Coordinated Admission and Inventory Controls in a Make-to-Stock Production
System

Ioannou, Petros*(ioannou@usc.edu)*

T7-139: Identification of the Continuous-Time Transfer Function of a System from
Sampled Data Measurements with Application to Disk Drives

Ishihara, Tadashi

T7-073: Selection of the Initial Controllers in Design of the Critical Control Systems

Istefanopoulos, Yorgo

T2-024: Neural Network Based Trajectory Planning for Tip Tracking of a Two-Link
Flexible Robot Manipulator

Ito, Kazuhisa*(kazu-ito@me.sophia.ac.jp)*

T5-009: Robust Velocity Control of Water Hydraulic Servomotor Systems via
Linearization Approach

Ito, Masanori

T2-025: A Teleoperating System for Underwater Manipulator to Practice a Time Limit
Task

Ivanov, I.

T7-129: Virtual Laboratory for Real-Time Control of Inverted Pendulum/Gantry Crane

J

Jackson, Bennett

T2-018: A Control System for Teams of Off-the-Shelf Scouts and MegaScouts

Jadbabaie, Ali

(jadbabai@seas.upenn.edu)

IV03-02: Coordination of Multiple Autonomous Vehicles

IV03-05: On Distributed Coordination of Mobile Agents with Changing Nearest Neighbors

Jakson, Bennet

T7-030: Vision-Based Human Tracking and Activity Recognition

Jalili, Mahdi

(mahdijalili@ece.ut.ac.ir)

T7-093: Application of Sliding Mode Control in Voltage-Controlled Magnetic Levitation Systems

Jansz, Martin

T7-133: Automatic Tuning of Electronic Throttle Control Strategy

Jassbi, Javad

T3-013: Multi Criteria Decision Making Using Dynamics of Criteria

Javadi, Amir H.

(ah_javadi@yahoo.com)

T2-002: Introducing Climax: A Novel Strategy to a Tri-Wheel Spiral Robot

T2-003: A New Approach to Decentralized Conflict Resolution and Utilizing GA in Path Planning for a Novel Map Representation in Evolutionary Multi-Agent Systems Due to Team Learning

Jayachandran, Alfred J.

T7-001: Design and Control of a MEMS Microengine Fabricated from Symmetrical Polysilicon Surface Micromachined Electrothermal Microactuators

Jelusic, R.

T7-063: Longitudinal Ventilation Control System in Road Tunnels

Jin, Hongzhang

T7-027: Research on Dynamic Lift Coefficient of Lift Feedback FIN Stabilizer and Its PIDNN Controller

Jing, Yuan-Wei

T1-011: Decentralized Variable Structure Control for Interconnected Systems with Mismatched Uncertainties

Joo, Haeho

(hhjoo@yu.ac.kr)

T7-033: Visual Servoing Using Online Calibration

K

Kablar, Natasa

(nkablar@lola-ins.co.yu)

T7-064: Finite Time Stability of Linear Impulsive Dynamical Systems

Kaburlasos, Vassilis G.

(vgkabs@teikav.edu.gr)

T3-018: Improved Prediction of Industrial Yield Based on Tools from a Normed Linear Space of Fuzzy Interval Numbers (FINs)

Kaczorek, Tadeusz

(kaczorek@isep.pw.edu.pl)

IV04-01: Relationship between Infinite Eigenvalue Assignment for Singular Systems and Solvability of Polynomial Matrix Equation

Kadri, Mohamed

(mkadri@cdta.dz)

T2-007: Generalized Cooperative Impedance Control of Dual-Arm for Assembly Task

Kale, Murat

T7-118: Active Power Filter for Power Compensation under Non-Ideal Mains Voltages

Kalos, Alex

(akalos@dow.com)

T7-059: Empirical Emulators for Process Monitoring and Optimization

Karam, Jalal

(drkaram_aou@hotmail.com)

T7-003: Wavelets Based Modelling for Automatic Recognition of Spoken Words

T7-004: A Faster Recognition of Similar Acoustic Sounds Using Wavelets

Karampetakis, N. P.

(karampet@auth.gr)

IV01-08: A Descriptor Systems Package for MATHEMATICA

Karas, Milos

T7-094: The Helicopter Rack Control

Karcanias, N.

IV02-05: A Resultant Based Computation of the Greatest Common Divisor of Two Polynomials

IV07-05: Approximate Solutions to Root Clustering Problem

Kaya, Ibrahim

(ikaya@inonu.edu.tr)

T7-088: Controller Design for Stable Processes Using User Specified Gain and Phase Margin Specifications and Two Degree-of-Freedom IMC Structure

T7-090: Computation of Stabilizing PI Controllers for Interval Systems

Kayafas, E.

T3-031: A Probabilistic Neural Network for Human Face Identification Based on Fuzzy Logic Chromatic Rules

Keviczky, L.

(keviczky@sztaki.hu)

T5-016: Robust Stability Limit and Robustness Measure for a GTDOF System

Kevrekidis, Yannis

(yannis@princeton.edu)

IV09-04: Coarse Computation: Enabling Microscopic Simulators to Perform System Level Tasks

T7-097: Coarse Bifurcation Diagrams via Microscopic Simulators: a State-Feedback Control-Based Approach

Khamis, A.

(akhamis@ing.uc3m.es)

IV12-06: Multicast Approach for Building Web-Based Educational Environment: Mobile Robotics Lab as a Case Study

Khanmohammadi, S.

T3-013: Multi Criteria Decision Making Using Dynamics of Criteria

Khelfi, M.F.

T2-034: Nonlinear Observer Design for Robot Manipulators. A Survey

Kiencke, Uwe

T4-003: Implementing Fastest Path Algorithms in a Decentralized Traffic Environment

Kim, S. H.

T1-010: Analysis on the Influence of Backlash and Motor Input Voltage in Geared Servo System

Kime, Katherine

(kimek@unk.edu)

IV09-03: Implementation of Numerical Approximations of Control of the Schrodinger Equation with MATLAB

Klooster, Samuel

(gtg700j@mail.gatech.edu)

T7-109: A Study of Passenger Seat Parameters as a Basis for Active Seat Control

Knittel, D.

T7-099: Decentralized Control for Winding Systems: Which Incidence on Reachable Performances?

Ko, Albert

(aux1496@hkusua.hku.hk)

T2-015: A Distributed Blackboard-Based Control System for Modular Self-Reconfigurable Robots

Koker, Rasit

(rkoker@sakarya.edu.tr)

T2-038: Design and Implementation of a Vision Based Control System towards Moving Object Capture for a 3-Joint Robotic Manipulator

Kolesar, Edward S.

(e.kolesar@tcu.edu)

T7-001: Design and Control of a MEMS Microengine Fabricated from Symmetrical Polysilicon Surface Micromachined Electrothermal Microactuators

Kontitsis, Michael P.

T7-134: A UAV Based Automated Airborne Surveillance System

Koompai, Chayant

T7-023: OTA – Based Control System of Active Power Filter for Harmonic and Reactive Power Compensation

Kordon, Arthur K.

T7-059: Empirical Emulators for Process Monitoring and Optimization

Kortschack, Axel

T2-008: Development of a Nanohandling Robot Cell

Kosmatopoulos, Elias

(kosmatop@dssl.tuc.gr)

T7-086: Stability Analysis of the Freeway Ramp Metering Control Strategy ALINEA

Kotsios, Stelios

(skotsios@econ.uoa.gr)

T1-008: Factorization and BIBO Stability of Certain Discrete Volterra Systems

Kouikoglou, Vassilis

(kouik@dpem.tuc.gr)

T4-002: Coordinated Admission and Inventory Controls in a Make-to-Stock Production System

Koussoulas, Nick

T7-052: Visualized Simulation of Off-Tracking Elimination in the n-Trailer Problem

Kovacic, Zdenko

(zdenko.kovacic@fer.hr)

T2-039: Derivation of Kinematic Parameters from a 3D Robot Model Used for Collision-Free Path Planning

T7-141: Adaptive Control Scheme Based on Hybrid Adaptation of Lead-Lag Compensator Parameters

Kozak, S.

T5-002: MPC Control Using AR-Volterra Models

Kratochvil, Bradley

T2-018: A Control System for Teams of Off-the-Shelf Scouts and MegaScouts

Kriesten, Reiner

(kriesten@iit.etec.uni-karlsruhe.de)

T4-003: Implementing Fastest Path Algorithms in a Decentralized Traffic Environment

Krikelis, N. J.

T7-111: Model Based Fault Diagnosis of Hybrid Systems Based on Hybrid Structure Hypothesis Testing

Kubalcik, Marek

(kubalcik@ft.utb.cz)

IV05-03: Application of Controllers Based on Polynomial Methods to Coupled Drives Laboratory Process

Kujan, Petr

(kujanp@fel.cvut.cz)

IV05-02: New Package for Effective Polynomial Computation in MATHEMATICA

Kuljaca, Ljubomir

T1-017: Nonlinear Resonance Jump in Turbine Governor Positioning System

T3-023: Fuzzy Modelling and Control of Marine Diesel Engine Process

Kuljaca, Ognjen

(okuljaca@arri.uta.edu)

T1-017: Nonlinear Resonance Jump in Turbine Governor Positioning System

T3-004: Dynamic Focusing of Awareness in Fuzzy Control Systems

Kun, Qian

(qiankun_0306@163.com)

T6-001: Research of Multi-Level Optimization Algorithm in Large-Scale System

Kurina, Galina

(kurina@kma.vsu.ru)

T7-100: Minimax Linear-Quadratic Control Problems for Descriptor Systems with Properly Stated Leading Term

Kuzman, K.

T7-021: Cyclic Loading of Low Carbon Cold Drawn Wires - the Possibility to Stabilize the Yield Stress

Kwak, Y.K.

T1-010: Analysis on the Influence of Backlash and Motor Input Voltage in Geared Servo System

Kyriakopoulos, Kostas J.

IV03-03: Decentralized Motion Control of Multiple Mobile Agents

T7-111: Model Based Fault Diagnosis of Hybrid Systems Based on Hybrid Structure Hypothesis Testing

L

Lampe, Bernhard P.*(bernhard.lampe@etechnik.uni-rostock.de)*

IV04-03: Optimal Open-Loop Tracking Using Sampled-Data System with Preview

Lantos, Bela

T5-008: Friction Model for Adaptive Compensation

T7-066: 3D Projective Reconstruction with Decomposed Projective Depths

Lapierre, Lionel*(lpl@isr.ist.utl.pt)*

T2-028: Unicycle Vision Based Path Following Control

Lappas, V.J.*(v.lappas@surrey.ac.uk)*

T7-143: Experimental Testing of a CMG Cluster for Agile Microsatellites

Lau, H.Y.K.

T2-015: A Distributed Blackboard-Based Control System for Modular Self-Reconfigurable Robots

Lau, T.L.

T2-015: A Distributed Blackboard-Based Control System for Modular Self-Reconfigurable Robots

Lawrence, J.

IV11-05: Input Shaping Curriculum: Integrating Interactive Simulations and Experimental Setups

Lee, Jeh-Won

T7-033: Visual Servoing Using Online Calibration

Leksell, M.

T7-067: State Feedback Controller for Distributed Systems with Non-Deterministic Time Delays

Lemos, J.M.

T7-137: Stability Results for Discrete Systems Controlled in the Presence of Interrupted Observations

Lesecq, S.*(suzanne.lesecq@inpg.fr)*

IV02-06: Numerical Accurate Computations for Ellipsoidal State Bounding

Levine, John

T7-065: Performance, Robustness and Effort Cost Comparison of Machine Learning Mechanisms in FlatLand

Lewis, Frank L.

(flewis@arri.uta.edu)

T3-004: Dynamic Focusing of Awareness in Fuzzy Control Systems

T3-014: Nearly Optimal Control Laws for Nonlinear Systems with Saturating Actuators Using a Neural Network HJB Approach

T4-008: Blocking Phenomena Analysis for Discrete Event Systems with Failures or Preventive Maintenance Schedules

Li, Hua

(lihua131@sina.com)

T1-011: Decentralized Variable Structure Control for Interconnected Systems with Mismatched Uncertainties

Lim, Yoon-Kyu

T7-044: A Tuning Method of Multi Variable PID Gains Using Jacobian

Lima, Pedro

T7-096: A Hybrid Automata Modell of TCR Triggering Dynamics

Lin, Szu-Yin

(stan@iim.nctu.edu.tw)

T4-010: Apply Adaptive and Cooperative MAS to Urban Traffic Signal Control

Linkens, Derek A.

T3-015: Fuzzy Logic to Model the Effect of Surgical Stimulus on the Patient Vital Signs

Liu, Jiachen

(liujiachen@hotmail.com)

T7-074: Automatic Control and Regulation for Power Load in Manufacturing Process

Liu, Jiali

T7-074: Automatic Control and Regulation for Power Load in Manufacturing Process

Loizou, Philipos C.

T7-017: A New Speech Enhancement Method Based on Wavelet Thresholding the Multitaper Spectrum

Longhi, Sauro

T7-125: Decentralized Control Networks of Multirate Sampled-Data Systems

Loumos, V.

T3-031: A Probabilistic Neural Network for Human Face Identification Based on Fuzzy Logic Chromatic Rules

Louverdis, Gerasimos*(gluver@ee.duth.gr)*

T7-032: Soft Morphological Color Image Processing: A Fuzzy Approach

Luk, P.C.K.

T2-017: Fuzzy-Sugeno Lateral Tyre Modelling of a Mobile Robot

Lygeros, John*(jl290@eng.cam.ac.uk)*

T7-132: Minimum Cost Optimal Control: An Application to Flight Level Tracking

Lytle, Alan M.

IV11-02: Developments toward an Autonomous Robotic Crane for Automated Steel Construction

M

M'Saad, M.

T7-105: New Approach for Induction Motor Parameters Estimation

Ma, Chuan

(cma@control.utoronto.ca)

T4-005: Control of State Tree Structures

Macario, M.

T3-025: Neural Networks Application in an AISI 304L Intergranular Corrosion Resistance Analysis

Mae, Yasushi

IV11-04: Tension Control and Force Estimation for Hybrid Drive Parallel Arm

Mahfouf, Mahdi

T3-015: Fuzzy Logic to Model the Effect of Surgical Stimulus on the Patient Vital Signs

Mahout, Vincent

(mahout@laas.fr)

T7-053: Nonlinear Control of a Photovoltaic Converter

Mahulea, Cristian

T4-006: Petri Net Toolbox for MATLAB

Maia, Carlos

(andrey@DCa.fee.unicamp.br)

T4-009: Some Results on Identification of Timed Event Graphs in Dioids

Maia, Jose

T7-123: Experimental Implementation of an Electromagnetic Automobile Suspension System

T7-124: Experimental and Simulation Results of an Bimotor Electric Vehicle

Makris, Kostantinos

T7-116: Error Control Schemes in Wireless Broadband Networks

Manesis, Stamatis

T7-052: Visualized Simulation of Off-Tracking Elimination in the n-Trailer Problem

Mannani, Amin

(amin_mannani@yahoo.com)

T2-032: A Fuzzy Controller Based on Fuzzy Lyapunov Synthesis for a Single-Link Flexible Manipulator

Margaritis, Konstantinos

T7-060: Feature Extraction and Sign Recognition for Greek Sign Language

Marichal, Roberto L.

T3-005: Evenet2000 as Software Application for System Identification and Control

T3-009: A Planning for Neural Networks Teaching in Control Using a Java-Based Toolkit

Maroudas, Dimitrios

T7-097: Coarse Bifurcation Diagrams via Microscopic Simulators: a State-Feedback Control-Based Approach

Martchenko, Ana

T3-033: Stability Analysis Method for Fuzzy Cognitive Maps

Martinez-Heras, Jose Antonio

(Jose.Antonio.Martinez.Heras@esa.int)

T7-104: Virtual Thermal Sensors for a Spacecraft

Martins, Ismenio

T7-123: Experimental Implementation of an Electromagnetic Automobile Suspension System

Martins, Nardenio

(namartin@din.uem.br)

T2-014: An Adaptive Neural Controller and Direct Adaptive Controllers for Robot Manipulators in the Joint Space

Martins, Nuno

(nmartins@mit.edu)

T7-110: An Information Theoretic Approach to the Statistical Learning of a Class of Hybrid Systems

Marton, Lorinc

(martonl@seeger.iit.bme.hu)

T5-008: Friction Model for Adaptive Compensation

Masar, I.

(Ivan.Masar@FernUni-Hagen.de)

T7-129: Virtual Laboratory for Real-Time Control of Inverted Pendulum/Gantry Crane

Maslowski, B.

IV10-03: An Approach to Stochastic Distributed Systems with Fractional Brownian Motion

Massieu, J.F.

T7-105: New Approach for Induction Motor Parameters Estimation

Matcovschi, Mihaela-Hanako

(mhanako@ac.tuiasi.ro)

T4-006: Petri Net Toolbox for MATLAB

Matijevic, Milan S.

(mmatijevic@ptt.yu)

T7-119: Application of Internal Models in the Design of Digitally Controlled Electrical Drives

Matko, Drago

(drago-matko@fe.uni-lj.si)

T7-006: Extending Classical Pipeline Models with Neural Nets

Matusu, R.

IV01-06: MATLAB Environment for Control of Time-Varying Systems

Matyas, Zalan

(zalesz@freemail.hu)

T7-103: A Behavioral Feedback Model for Financial Markets

Maussion, Pascal

(maussion@leei.enseiht.fr)

T7-061: A Simple Model Estimator for Multiple Model Control of a Buck DC-DC Converter

Mckee, Gerard

(g.t.mckee@reading.ac.uk)

IV12-07: An Online Robot Educational Project

Meiyan, Gao

T6-001: Research of Multi-Level Optimization Algorithm in Large-Scale System

Meng, Qinghao

IV12-04: Navigation Experiments with Mobile Outdoor Rovers via Internet

Menini, Laura

IV08-01: On Actuators/Sensors Placement for Collocated Flexible Plates

T2-006: State Observers for the Asymptotic Inversion of Nonlinear Maps, When the Reference Trajectory Is Not Differentiable

T2-022: On Velocity Observers for a Planar Robot Subject to Non-Smooth Impacts

Menold, Patrick H.

T7-078: Finite Time Convergent Observers for Linear Time-Varying Systems

Meszaros, Alois

T3-030: Hybrid Modeling Based Adaptive Neural Controller

Midoun-Oussedik, Amel

(amel_midoun@hotmail.com)

T7-076: PR-Sliding Sectors for Continuous and Discrete Control of an Induction Motor

Mikles, Jan

(mikles@cvt.stuba.sk)

IV05-01: H2 Optimal Control of a Chemical Reactor

Milutinovic, Dejan

(DEJAN@ISR.IST.UTL.PT)

T7-096: A Hybrid Automata Modell of TCR Triggering Dynamics

Mireles, Jose

(jmireles@arri.uta.edu)

T4-008: Blocking Phenomena Analysis for Discrete Event Systems with Failures or Preventive Maintenance Schedules

Misra, Archan

T4-011: Markov Processes with State-Dependent Failure Rates and Application to RED and TCP Window Dynamics

Mita, Tsutomu

T7-114: On Transformation of Nonholonomic Systems to Time-State Control Form

Mitrouti, M.

IV02-05: A Resultant Based Computation of the Greatest Common Divisor of Two Polynomials

IV07-05: Approximate Solutions to Root Clustering Problem

Mojabi, Puyan

(puyan_mojabi@yahoo.com)

T2-002: Introducing Climax: A Novel Strategy to a Tri-Wheel Spiral Robot

T2-003: A New Approach to Decentralized Conflict Resolution and Utilizing GA in Path Planning for a Novel Map Representation in Evolutionary Multi-Agent Systems Due to Team Learning

Molfino, R.M.

IV06-01: Mechatronic Design of a Parallel Robot for High-Speed, Impedance-Controlled Manipulation

Molnar-Saska, Gabor

(molnar@math.bme.hu)

T5-013: Estimation Error in Adaptive Prediction of Hidden Markov Processes

Montes, H.

T2-020: Vertical Movement of Resonance Hopping Robot with Electric Drive and Simple Control System

Montufar-Chaveznava, Rodrigo

(rodrigo@inaoep.mx)

T3-006: A Cellular Neural Network System for Real-Time Image Processing

Moreira, Jose

T4-013: Performance Improvement through Active Idleness

Moreno, Lorenzo

T3-005: Evenet2000 as Software Application for System Identification and Control

T3-009: A Planning for Neural Networks Teaching in Control Using a Java-Based Toolkit

Morgul, Omer

(morgul@bilkent.edu.tr)

IV08-03: On the Boundary Control of Passive Infinite Dimensional Systems

Mosna, Jiri

T5-011: LQG Tracking Problem and Its Tracking Robustness

Moussa, Haddad

(Moussa.Haddad@caramail.com)

T2-005: Optimization by Simulated Annealing of the Power Necessary to a Mobile Manipulator

Mueller, Andreas

(andreas.mueller@ifm.tu-chemnitz.de)

T2-013: A Dexterity Maximizing Continuation Method for the Inverse Kinematics of Redundant Manipulators

Munro, Neil

(n.munro @umist.ac.uk)

IV01-04: A Polynomial Control Systems Package

T6-002: A Dominance-Based Approach to Robustness Analysis

Muscato, Giovanni

(gmuscato@diees.unict.it)

IV06-03: Design and Control of an Anthropometric Robotic Leg

T3-026: Fuzzy Linear Matrix Inequalities (LMI) Control of a Rectangular Thermal Convection Loop

N

Nastran, Miha*(miha.nastran@fs.uni-lj.si)*

T7-021: Cyclic Loading of Low Carbon Cold Drawn Wires - the Possibility to Stabilize the Yield Stress

Navratil, Petr

IV04-02: Adaptive Control Based on Plant-Parameterization Using δ -Models

Neuendorf, Norbert*(Norbert.Neuendorf@MLaP.de)*

T7-058: Demands of the Decentralized Autonomous Intersection Management on the Steer-by-Wire System in Passenger Cars

Newman, Robert M.

T7-140: Intelligent Diagnostic for Sensor Arrays

Niculescu, Silviu-Iulian*(silviu@hds.utc.fr)*

T7-071: On Delay-Dependent Stability in Lossless Propagation Models: a Liapunov-Krasovskii Analysis

T7-084: Stability Analysis of Low-Order Combustion Systems

Nikolakopoulos, George

T7-121: Lattice 1-Step Ahead Output Uncertainty Predictor for Auto-Regressive Systems

Nobakhti, Amin*(multivariable@IEEE.org)*

T6-002: A Dominance-Based Approach to Robustness Analysis

Noe, A.

T7-016: A Class of Numerical Algorithms for Efficient Approximation of Maximum Entropy Estimates of Probability Density Functions

Nunes, Catarina*(ccnunes@fc.up.pt)*

T3-015: Fuzzy Logic to Model the Effect of Surgical Stimulus on the Patient Vital Signs

O

Odom, William E.

T7-001: Design and Control of a MEMS Microengine Fabricated from Symmetrical Polysilicon Surface Micromachined Electrothermal Microactuators

Oke, Gulay

(oke@boun.edu.tr)

T2-024: Neural Network Based Trajectory Planning for Tip Tracking of a Two-Link Flexible Robot Manipulator

Ono, Takahiko

(ono@control.is.tohoku.ac.jp)

T7-073: Selection of the Initial Controllers in Design of the Critical Control Systems

Otsuka, Naohisa

(otsuka@j.dendai.ac.jp)

IV05-06: On Hurwitz Stability of Weighted Diamond Polynomials

Ott, Teunis

T4-011: Markov Processes with State-Dependent Failure Rates and Application to RED and TCP Window Dynamics

Ouadi, H.

T7-007: Nonlinear and Adaptive Control of Buck-Boost Power Converters

Owens, David H.

IV01-02: MATLAB-Based Toolbox for Analysing Differential Linear Repetitive Processes

IV02-07: Robust Stabilization of Discrete Linear Repetitive Processes with Application to Physical Example

Oz, Cemil

T2-038: Design and Implementation of a Vision Based Control System towards Moving Object Capture for a 3-Joint Robotic Manipulator

Ozdemir, Engin

(eoazdemir@kou.edu.tr)

T7-118: Active Power Filter for Power Compensation under Non-Ideal Mains Voltages

Ozdemir, Sule

T7-118: Active Power Filter for Power Compensation under Non-Ideal Mains Voltages

P

Pachter, Meir

(meir.pachter@afit.edu)

T7-005: INS Aiding Using Optical Flow - Theory

Padhi, RadhakantT7-112: Suboptimal Control of a One-Dimensional Nonlinear Heat Equation Using
POD and θ - D Techniques**Panayiotou, Christos**

(christosp@ucy.ac.cy)

T7-034: Perturbation Analysis of Stochastic Fluid Models with Respect to the Fluid
Arrival Process**Papadopoulos, Evangelos**

(egpapado@central.ntua.gr)

T8-004: On the Design of an Autonomous Robot Fish

Papageorgiou, MarkosT7-065: Performance, Robustness and Effort Cost Comparison of Machine Learning
Mechanisms in FlatLand

T7-086: Stability Analysis of the Freeway Ramp Metering Control Strategy ALINEA

Papanikolopoulos, Nikos

(npapas@cs.umn.edu)

IV03-01: Dispersion of a Team of Surveillance and Reconnaissance Robots Based on
Repellent Pheromones

T2-018: A Control System for Teams of Off-the-Shelf Scouts and MegaScouts

T7-030: Vision-Based Human Tracking and Activity Recognition

Papavasiliou, Anastasia

(pp2102@columbia.edu)

T1-013: Adaptive Estimation of Partially Observed Nonlinear Stochastic Systems

Pappas, George

IV03-02: Coordination of Multiple Autonomous Vehicles

Parenti, F.T7-016: A Class of Numerical Algorithms for Efficient Approximation of Maximum
Entropy Estimates of Probability Density Functions**Pascoal, Antonio**

T2-028: Unicycle Vision Based Path Following Control

T5-014: Identification of Mass-Spring-Dashpot Systems Using Multiple-Model
Adaptive Estimation (MMAE) Algorithms

Pashaloudi, Vassilia

(vpasx@uom.gr)

T7-060: Feature Extraction and Sign Recognition for Greek Sign Language

Pasik-Duncan, B.

IV10-03: An Approach to Stochastic Distributed Systems with Fractional Brownian Motion

Pastravanu, Octavian

(opastrav@ac.tuiasi.ro)

T4-006: Petri Net Toolbox for MATLAB

T7-039: Norm-Based Approach to Componentwise Asymptotic Stability

Paszke, Wojciech

IV02-07: Robust Stabilization of Discrete Linear Repetitive Processes with Application to Physical Example

Pavkovic, Danijel

T7-133: Automatic Tuning of Electronic Throttle Control Strategy

Peacock, John E.

T3-015: Fuzzy Logic to Model the Effect of Surgical Stimulus on the Patient Vital Signs

Pearce, Janice L.

IV03-01: Dispersion of a Team of Surveillance and Reconnaissance Robots Based on Repellent Pheromones

Perdon, A.M.

(perdon@mta01.unian.it)

T7-012: Unknown Inputs, Robust State Observation for Parameter Dependent Linear Systems

Perez Vernet, Mónica

(monivernet@hotmail.com)

IV12-05: Wireless Communication Data Link Protocol for Cooperating and Tele-Operated Mobile Robots

Peric, Mario

T7-130: Stochastical Model of Irradiation for the Analysis of the Solar System

Peric, Nedjeljko

T7-063: Longitudinal Ventilation Control System in Road Tunnels

T7-133: Automatic Tuning of Electronic Throttle Control Strategy

Persin, Stojan

(stojan.persin@uni-mb.si)

T7-035: Analitical Redundancy for Better Safety Features – an Example of Boiler

Pesek, Pavel

(pesek@control.zcu.cz)

T5-011: LQG Tracking Problem and Its Tracking Robustness

Petric, Josko

T1-009: Sliding Mode Control Applied to Pneumatic Servo Drive

Petridis, Vasilios

(petridis@eng.auth.gr)

T3-018: Improved Prediction of Industrial Yield Based on Tools from a Normed Linear Space of Fuzzy Interval Numbers (FINs)

Petrovic, Ivan

T7-063: Longitudinal Ventilation Control System in Road Tunnels

Pettersson, Stefan

T5-010: Induced L2-Gain Domain for LPV-Gain Scheduled Control Systems

Pfuetzenreuter, Torsten

(torsten.pfuetzenreuter@tu-ilmenau.de)

T8-002: An Onboard Mission Replanning System for Autonomous Underwater Vehicles

Pineda, Miguel D.IV01-05: Global Optimization in R^n with Box Constraints and Applications: A Maple Code**Pivonka, Petr**

T5-003: Quantization Effect Influences Identification in Adaptive LQ Controller

Poduraev, Jury

T3-033: Stability Analysis Method for Fuzzy Cognitive Maps

Polyakov, K.Yu.

IV04-03: Optimal Open-Loop Tracking Using Sampled-Data System with Preview

Pomerleau, Dominique

(dpomerle@hotmail.com)

T7-047: Optimization of a Simulated Iron-Oxide Pellets Induration Furnace

Pouliquen, M.

T7-105: New Approach for Induction Motor Parameters Estimation

Powers, Bob

IV03-01: Dispersion of a Team of Surveillance and Reconnaissance Robots Based on Repellent Pheromones

Poznyak, Alexander S.

(apoznyak@ctrl.cinvestav.mx)

IV07-04: Learning through Gradient-Type Reinforcement for N-Person Repeated
Constrained Games: Counter-Coalition Space Approach

Prautsch, Pavel

(prautsch@kky.zcu.cz)

T7-114: On Transformation of Nonholonomic Systems to Time-State Control Form

Prokop, Roman

(prokop@ft.utb.cz)

IV01-06: MATLAB Environment for Control of Time-Varying Systems

IV05-05: μ -Synthesis: Simple Controllers for Time Delay Systems

Prokopova, Z.

IV01-06: MATLAB Environment for Control of Time-Varying Systems

Pugh, A.C.

IV04-06: Zero Structures of n-D Systems

Puncec, Mario

T7-141: Adaptive Control Scheme Based on Hybrid Adaptation of Lead-Lag
Compensator Parameters

Q

Qiu, Li

T7-018: Performance Limitations of Discrete-Time Systems in Tracking Sinusoidal Signals

Qiu, Robin G.

(robinqiu@psu.edu)

T7-022: An Architecture of Equipment Connectivity in an e-Business Environment

R

Rashidi, Farzan*(farzan_rashidi@yahoo.com, f.rashidi@ece.ut.ac.ir)*

T3-016: Applying Intelligent Controllers for Speed Regulation of DC Motors

T3-019: Emotional Temporal Difference Learning Based Intelligent Controller

T7-093: Application of Sliding Mode Control in Voltage-Controlled Magnetic Levitation Systems

Rashidi, Mehran

T3-016: Applying Intelligent Controllers for Speed Regulation of DC Motors

Rasonyi, Miklos*(rasonyi@sztaki.hu)*

T7-054: Controlled Lyapunov-Exponents with Application in Optimization, Finance and Biology

Rasvan, Vladimir

T7-071: On Delay-Dependent Stability in Lossless Propagation Models: a Liapunov-Krasovskii Analysis

Reich, Simeon

IV10-01: Convergence Results for Continuous Descent Methods

Reichenbach, Tomislav

T2-039: Derivation of Kinematic Parameters from a 3D Robot Model Used for Collision-Free Path Planning

Rekleitis, Ioannis

IV03-04: Analytical Expression for Positioning Uncertainty Propagation in Networks of Robots

Ribeiro, R.A.

T3-013: Multi Criteria Decision Making Using Dynamics of Criteria

Rogers, Eric

IV01-02: MATLAB-Based Toolbox for Analysing Differential Linear Repetitive Processes

IV02-07: Robust Stabilization of Discrete Linear Repetitive Processes with Application to Physical Example

Rohrig, C.

T7-129: Virtual Laboratory for Real-Time Control of Inverted Pendulum/Gantry Crane

Romasheva, Darina

T5-012: Adaptive Control Law for Uncertain System with Static Nonlinearity

Rosas-Flores, J. Alfredo

IV07-02: Robust Control of an Underactuated Planar 2R Manipulator

Rosenwasser, E.N.

IV04-03: Optimal Open-Loop Tracking Using Sampled-Data System with Preview

Rossignol, Laure

(laure.rossignol@greyc.ismra.fr)

T7-105: New Approach for Induction Motor Parameters Estimation

Roumeliotis, Stergios

IV03-04: Analytical Expression for Positioning Uncertainty Propagation in Networks of Robots

Ruff, Matthew D.

T7-001: Design and Control of a MEMS Microengine Fabricated from Symmetrical Polysilicon Surface Micromachined Electrothermal Microactuators

Russo, Mario

T7-048: Adaptive Voltage Regulation with Harmonic Distortion Containment Objectives in Electrical Power Systems

Rybski, Paul E.

IV03-01: Dispersion of a Team of Surveillance and Reconnaissance Robots Based on Repellent Pheromones

S

Sabbadini, F.

T2-030: Control of an Underactuated Underwater Robotic Manipulator

Sadati, N.

T7-136: A New Sufficient Condition for Stability of Decentralized Control: An LMI Approach

Saidi, Kamel S.

(kamel.saidi@nist.gov)

IV11-02: Developments toward an Autonomous Robotic Crane for Automated Steel Construction

Salichs, M.

IV12-06: Multicast Approach for Building Web-Based Educational Environment: Mobile Robotics Lab as a Case Study

Salzmann, Christophe

(christophe.salzmann@epfl.ch)

IV12-03: Metrics for QoS in Real-Time Interaction over the Internet

Samaranayake, Lilantha

(lilantha@ekc.kth.se)

T7-067: State Feedback Controller for Distributed Systems with Non-Deterministic Time Delays

Santos-Mendes, R.

T4-009: Some Results on Identification of Timed Event Graphs in Dioids

Sarimveis, Haralambos

T3-027: Modeling of Continuous Digesters Using Adaptive RBF Neural Network Models

Sarkissian, Daniil

IV02-03: Numerical Methods for Partial Eigenvalue and Eigenstructure Assignments in Vibrating Structures

Scaradozzi, D.

IV06-04: Design and Operation of a Quadrupedal Robot

Schab, Jakub

IV11-01: Adaptation Control Technique of Overhead Crane Mechanisms

Schilling, Klaus

(schi@informatik.uni-wuerzburg.de)

IV12-04: Navigation Experiments with Mobile Outdoor Rovers via Internet

Schipp, Ferenc

T7-101: Applying Orthogonal Rational Signal Representations in System Change Detection

Schmid, Christian

(cs@esr.ruhr-uni-bochum.de)

IV12-01: Remote Experimentation in Control Engineering

Schumacher, Walter

T2-010: Hybrid Force Control for Parallel Manipulators

Scott, Nicholas A.

IV11-02: Developments toward an Autonomous Robotic Crane for Automated Steel Construction

Sebek, Michael

IV05-02: New Package for Effective Polynomial Computation in MATHEMATICA

IV05-04: New Algorithm for Polynomial Plus-Minus Factorization Based on Band Structured Matrix Decomposition

Shahid, Mian Zainulrafeen

T7-055: Controller Reconfiguration for Stern Plane Jams in Underwater Vehicles

Shaked, U.T7-050: Static H₂ and H_{inf} Output-Feedback of State Multiplicative Linear Systems**Shankar Priya, Rajesh**

IV12-04: Navigation Experiments with Mobile Outdoor Rovers via Internet

Shimizu, Etsuro

T2-025: A Teleoperating System for Underwater Manipulator to Practice a Time Limit Task

Shousheng, Xie

T6-001: Research of Multi-Level Optimization Algorithm in Large-Scale System

Sidi, Marcel

(sidi@hait.ac.il)

T6-007: Loop-Gain Optimization of NMP-Unstable Plants

Siettos, Constantinos

(csiettos@princeton.edu)

T7-097: Coarse Bifurcation Diagrams via Microscopic Simulators: a State-Feedback Control-Based Approach

Sigrimis, N.A.

T7-040: Controller Tuning for Integrating Processes with Time Delay Part I: IPDT Processes and the Pseudo-Derivative Feedback Control Configuration

T7-041: Controller Tuning for Integrating Processes with Time Delay Part II: Robustness Analysis under Structured Parametric Uncertainty

T7-042: Controller Tuning for Integrating Processes with Time Delay Part III: The Case of First Order Plus Integral Plus Dead-Time Processes

Silvestre, C.

T7-069: SimModHeli: A Dynamic Simulator for Model-Scale Helicopters

Sima, Vasile

(vsima@iciadmin.ici.ro)

IV01-01: Solving Algebraic Riccati Equations with SLICOT

IV01-07: Identification of a Steel Subframe Flexible Structure Using SLICOT System Identification Toolbox

Singhose, William E.

IV11-05: Input Shaping Curriculum: Integrating Interactive Simulations and Experimental Setups

T7-109: A Study of Passenger Seat Parameters as a Basis for Active Seat Control

Siqueira, Adriano A.G.

T2-035: Output Feedback Nonlinear Hinf Control of Underactuated Manipulators

Sira-Ramirez, Hebertt

IV07-06: On the Control of an Uncertain Rigid Body Dynamics

Situm, Zeljko

(zeljko.situm@fsb.hr)

T1-009: Sliding Mode Control Applied to Pneumatic Servo Drive

Smoczek, Jarosław

IV11-01: Adaptation Control Technique of Overhead Crane Mechanisms

Soetanto, D.J.

T2-028: Unicycle Vision Based Path Following Control

Sombat, Vanichprapa

(sombat.vanichprapa@power.alstom.com)

T7-023: OTA – Based Control System of Active Power Filter for Harmonic and Reactive Power Compensation

Sonda, Paul

IV09-01: Control of Fluid Flow in the Vertical Bridgman Crystal Growth Process

Song, Jin

T7-074: Automatic Control and Regulation for Power Load in Manufacturing Process

Sorensen, Mathias Jesper

(mjs@control.auc.dk)

T2-011: Artificial Potential Field Approach to Path Tracking for a Non-Holonomic Mobile Robot

Soumelidis, Alexandros

(soumelidis@sztaki.hu)

T7-101: Applying Orthogonal Rational Signal Representations in System Change Detection

Soverini, Umberto

(usoverini@deis.unibo.it)

T7-089: Kalman Filtering in Symmetrical Noise Environments

Spampinato, G.

IV06-03: Design and Control of an Anthropometric Robotic Leg

Spathopoulos, Michael P.

T7-045: On the Control Synthesis for Target Problems in Continuous and Hybrid Systems Using Level Set Methods

Stefanovic, Miladin Z.

T7-119: Application of Internal Models in the Design of Digitally Controlled Electrical Drives

Stellas, I.Z.

T7-040: Controller Tuning for Integrating Processes with Time Delay Part I: IPDT Processes and the Pseudo-Derivative Feedback Control Configuration

T7-041: Controller Tuning for Integrating Processes with Time Delay Part II: Robustness Analysis under Structured Parametric Uncertainty

T7-042: Controller Tuning for Integrating Processes with Time Delay Part III: The Case of First Order Plus Integral Plus Dead-Time Processes

Steyn, W.H.

T7-143: Experimental Testing of a CMG Cluster for Agile Microsatellites

Stoeter, Sascha A.

IV03-01: Dispersion of a Team of Surveillance and Reconnaissance Robots Based on Repellent Pheromones

Stojic, Milic R.

T7-119: Application of Internal Models in the Design of Digitally Controlled Electrical Drives

Stone, William C.

IV11-02: Developments toward an Autonomous Robotic Crane for Automated Steel Construction

Stylios, Chrysostomos

(stylios@ee.upatras.gr)

T3-032: Integrated Approach for Classification of Cardiotocograms Based on Independent Component Analysis and Neural Networks

T3-033: Stability Analysis Method for Fuzzy Cognitive Maps

T4-017: Implementation of Fuzzy Cognitive Maps for Production Planning of Plant Control Systems

Su, Weizhou

(eewesu@ust.hk)

T7-018: Performance Limitations of Discrete-Time Systems in Tracking Sinusoidal Signals

Suardi, A.

IV06-02: On the Force-Controlled Assembly Operations of a New Parallel Kinematics Manipulator

IV06-04: Design and Operation of a Quadrupedal Robot

Sun, G.

T7-034: Perturbation Analysis of Stochastic Fluid Models with Respect to the Fluid Arrival Process

Svancara, Kamil

(svancara@feec.vutbr.cz)

T5-003: Quantization Effect Influences Identification in Adaptive LQ Controller

Swierniak, Andrzej

T4-012: Invertible Planning and Non-Cooperative Equilibrium Strategies in Multi-Agent Planning

Syrkos, G.

T7-040: Controller Tuning for Integrating Processes with Time Delay Part I: IPDT Processes and the Pseudo-Derivative Feedback Control Configuration

T7-041: Controller Tuning for Integrating Processes with Time Delay Part II: Robustness Analysis under Structured Parametric Uncertainty

T7-042: Controller Tuning for Integrating Processes with Time Delay Part III: The Case of First Order Plus Integral Plus Dead-Time Processes

Syrmos, Vasillis*(hellas@euclid.hawaii.edu)*

T5-006: Vehicle Health Monitoring System Using Multiple-Model Adaptive Estimation

IV02-02: Space Time Adaptive Processing Using State-Space Methods and Kalman
Filtering**Szabo, Zoltan***(szaboz@decst.scl.sztaki.hu)*

T7-083: Inversion of LPV Systems

Szaszi, IstvanT7-080: Rollover Avoidance for Steer-by-Wire Vehicles by Using Linear Parameter
Varying Methods**Szpytko, Janusz***(szpytko@galaxy.uci.agh.edu.pl)*

IV11-01: Adaptation Control Technique of Overhead Crane Mechanisms

IV11-06: Rapid Prototyping of Overhead Cranes Control Procedures

T

Talebi, H.A.

T2-032: A Fuzzy Controller Based on Fuzzy Lyapunov Synthesis for a Single-Link Flexible Manipulator

Tan, Nusret

(ntan@inonu.edu.tr)

T7-088: Controller Design for Stable Processes Using User Specified Gain and Phase Margin Specifications and Two Degree-of-Freedom IMC Structure

T7-090: Computation of Stabilizing PI Controllers for Interval Systems

Tanaka, Kensuke

T2-025: A Teleoperating System for Underwater Manipulator to Practice a Time Limit Task

Tanner, Herbert G.

IV03-02: Coordination of Multiple Autonomous Vehicles

Taraba, Peter

(taraba@kasr.elf.stuba.sk)

T5-002: MPC Control Using AR-Volterra Models

Tel, Ferenc

(tel@opsys.hu)

T7-066: 3D Projective Reconstruction with Decomposed Projective Depths

Terra, Marco H.

(terra@sel.eesc.sc.usp.br)

T2-035: Output Feedback Nonlinear Hinf Control of Underactuated Manipulators

Theologou, Micahel E.

T7-116: Error Control Schemes in Wireless Broadband Networks

Thramboulidis, Kleanthis

(thrambo@ee.upatras.gr)

T7-108: An IEC-Compliant Engineering Tool for Distributed Control Applications

T7-122: An Architecture to Extend the IEC61499 Model for Distributed Control Applications

Tibken, Bernd

T7-068: Application of Lifting Scheme to Transmultiplexers

Tomisa, Tomislav

T7-130: Stochastic Model of Irradiation for the Analysis of the Solar System

Tornambe, Antonio*(tornambe@disp.uniroma2.it)*

T2-006: State Observers for the Asymptotic Inversion of Nonlinear Maps, When the Reference Trajectory Is Not Differentiable

T2-022: On Velocity Observers for a Planar Robot Subject to Non-Smooth Impacts

Torres-Munoz, Jorge A.

IV07-01: Some Remarks on the Problem of Model Matching by State Feedback

Touri, Rousbeh

T7-115: A Worst-Case Framework for Perfect Reconstruction of Discrete Data Transmissions

Tovornik, Boris

T7-035: Analytical Redundancy for Better Safety Features – an Example of Boiler

Trabulus, Selim*(trabulus@ttnet.net.tr)*

T7-009: Integration of Digital Measuring Technology in Gas Insulated Substations (GIS)

Tran Dinh, K. Q.

IV02-06: Numerical Accurate Computations for Ellipsoidal State Bounding

Tranoris, Christos*(tranoris@ee.upatras.gr)*

T7-108: An IEC-Compliant Engineering Tool for Distributed Control Applications

Triantafyllou, George

T8-004: On the Design of an Autonomous Robot Fish

Trontis, Anastasios*(atrontis@mecheng.strath.ac.uk)*

T7-045: On the Control Synthesis for Target Problems in Continuous and Hybrid Systems Using Level Set Methods

Tsalides, Filippas

T7-008: Error Computation in the Uniform Color-Spaces SRGB and CIEL*a*b*

Tsourdos, A.

T2-017: Fuzzy-Sugeno Lateral Tyre Modelling of a Mobile Robot

Tsourveloudis, Nikos C.*(nikost@dpem.tuc.gr)*

T7-134: A UAV Based Automated Airborne Surveillance System

Tzekis, P.

IV01-08: A Descriptor Systems Package for MATHEMATICA

Tzeranis, Dimitrios

T8-004: On the Design of an Autonomous Robot Fish

Tzes, Anthony

(tzes@ee.upatras.gr)

T7-121: Lattice 1-Step Ahead Output Uncertainty Predictor for Auto-Regressive
Systems

Tzoneva, Raynitchka

(tzonevar@pentech.ac.za)

T7-095: Two-Layer Control of an Ion Exchange Process for Desalination of Water

U

Ucinski, Dariusz

(d.ucinski@issi.uz.zgora.pl)

IV08-02: On the Determination of Moving Sensor Policies for Parameter Estimation of Distributed Parameter Systems

Underwood, C.I.

T7-143: Experimental Testing of a CMG Cluster for Agile Microsatellites

V

Vachtsevanos, George

T3-022: A Hierarchical/Intelligent Control Architecture for Unmanned Aerial Vehicles

Vago, Zsuzsanna

T7-054: Controlled Lyapunov-Exponents with Application in Optimization, Finance and Biology

Vahidi, Arash

T4-014: Supremica - A Tool for Verification and Synthesis of Discrete Event Supervisors

Vajta, Miklos

(m.vajta@math.utwente.nl)

T7-142: Stability of a Heat Process with Exponential Internal Source

Valavanis, Kimon P.

T7-134: A UAV Based Automated Airborne Surveillance System

Vardulakis, A.I.G.

(avardula@auth.gr)

IV01-08: A Descriptor Systems Package for MATHEMATICA

IV02-01: A Numerical Method for the Computation of Proper Denominator Assigning Compensators for Strictly Proper Plants

Velicko, Viktor

T7-094: The Helicopter Rack Control

Vergados, Dimitrios D.

T7-116: Error Control Schemes in Wireless Broadband Networks

Vinter, R.

T6-009: The Inventory Problem: A Dynamic Programming Approach

Voicu, Mihail

T7-039: Norm-Based Approach to Componentwise Asymptotic Stability

Vologiannidis, S.

IV01-08: A Descriptor Systems Package for MATHEMATICA

Vonikakis, Vasilios

T7-008: Error Computation in the Uniform Color-Spaces SRGB and CIEL*a*b*

Voulgaris, Petros

T7-115: A Worst-Case Framework for Perfect Reconstruction of Discrete Data
Transmissions

Vukic, Zoran

T3-023: Fuzzy Modelling and Control of Marine Diesel Engine Process
T8-003: Scope and Application of Reconfigurable Control

W

Wahdan, A. M.

T5-001: Adaptive Control for Nonlinear Multivariable Systems Using a Single-Layer Neural Network and Conventional Linear Controller

Wang, Xudong

(xdwang@spectra.eng.hawaii.edu)

IV02-02: Space Time Adaptive Processing Using State-Space Methods and Kalman Filtering

T5-006: Vehicle Health Monitoring System Using Multiple-Model Adaptive Estimation

Watanabe, Kenzo

T7-023: OTA – Based Control System of Active Power Filter for Harmonic and Reactive Power Compensation

Weitzenfeld, Alfredo

(alfredo@itam.mx)

T2-029: Embedded Mobile Systems: from Brain Theory to Neural-Based Robots

Werner, Thomas

(thomas.werner@fh-gelsenkirchen.de)

T7-006: Extending Classical Pipeline Models with Neural Nets

White, B.A.

T2-017: Fuzzy-Sugeno Lateral Tyre Modelling of a Mobile Robot

Wonham, W. M.

T4-005: Control of State Tree Structures

X

Xibilia, Maria Gabriella

T3-026: Fuzzy Linear Matrix Inequalities (LMI) Control of a Rectangular Thermal Convection Loop

Xin, Ming

(xin@umr.edu)

T7-112: Suboptimal Control of a One-Dimensional Nonlinear Heat Equation Using POD and θ - D Techniques

Xu, Haojian

T7-139: Identification of the Continuous-Time Transfer Function of a System from Sampled Data Measurements with Application to Disk Drives

Y

Yagoubi, M.

T7-099: Decentralized Control for Winding Systems: Which Incidence on Reachable Performances?

Yamakawa, Satoko

(yamakawa@vier.mech.nitech.ac.jp)

T7-081: Stability of Switching Controlled Chained Systems Based on Time-State Control Form

Yannakakis, Georgios

(g.yannakakis@sms.ed.ac.uk)

T7-065: Performance, Robustness and Effort Cost Comparison of Machine Learning Mechanisms in FlatLand

Yao, Xuliang

T7-027: Research on Dynamic Lift Coefficient of Lift Feedback FIN Stabilizer and Its PIDNN Controller

Ye, Sue X.

T7-022: An Architecture of Equipment Connectivity in an e-Business Environment

Ye, Zhengmao

(yzm001@hotmail.com)

T2-016: Recognition and Modeling of Smart Sensor Integration on Robotic Control Application

Yeckel, Andrew

IV09-01: Control of Fluid Flow in the Vertical Bridgman Crystal Growth Process

Z

Zagalak, Petr

(zagalak@utia.cas.cz)

IV07-01: Some Remarks on the Problem of Model Matching by State Feedback

Zakova, Katarina

T7-113: Organising Tele-Experiments for Control Education

Zampa, Pavel

T7-102: A New Approach to Stochastic Causal System Continualization

Zaslavski, Alexander

IV10-01: Convergence Results for Continuous Descent Methods

Zavlanos, Michael M.

IV03-03: Decentralized Motion Control of Multiple Mobile Agents

Zerai, Adel A.

T1-003: A New Continuous Time Adaptive Backlash Inverse Controller and Applications to Output Backlash Compensation

Zhang, Chang

T7-043: A New Adaptive Aggregation Algorithm for Infinite Horizon Dynamic Programming

Zhang, Haipeng

(zhpbird@hotmail.com)

T7-027: Research on Dynamic Lift Coefficient of Lift Feedback FIN Stabilizer and Its PIDNN Controller

Zhang, Junyu

T7-062: Performance Sensitivities for Parameterized Systems

Zhang, Ping

(pzhang@ipc.tosho-u.ac.jp)

T2-025: A Teleoperating System for Underwater Manipulator to Practice a Time Limit Task

Zhang, Si-Ying

T1-011: Decentralized Variable Structure Control for Interconnected Systems with Mismatched Uncertainties

Zhang, Yanhong

(yanhong-zhang@yeah.net)

T3-021: A New Application of Fuzzy Neural Network to ECG Recognition Based on
Rough Set Theory

Zhong, Qing-Chang

(zhongqc@imperial.ac.uk)

T7-084: Stability Analysis of Low-Order Combustion Systems

Ziolko, Mariusz

(ziolko@agh.edu.pl)

T7-068: Application of Lifting Scheme to Transmultiplexers

Zoppi, M.

IV06-01: Mechatronic Design of a Parallel Robot for High-Speed, Impedance-
Controlled Manipulation

Zotovic, R.

T2-021: Robot Force Control: Some Comments on System Convergence