

2016 European Control Conference (ECC 2016)

**Aalborg, Denmark
29 June - 1 July 2016**

Pages 1-660



**IEEE Catalog Number: CFP1690U-POD
ISBN: 978-1-5090-2592-3**

**Copyright © 2016 by the Institute of Electrical and Electronics Engineers, Inc
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP1690U-POD
ISBN (Print-On-Demand):	978-1-5090-2592-3
ISBN (Online):	978-1-5090-2591-6

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

TABLE OF CONTENTS

PARAMETER ESTIMATION OF AN ELECTROCHEMICAL SUPERCAPACITOR MODEL	1
<i>Ross Drummond ; David A. Howey ; Stephen R. Duncan</i>	
MODELING AND CONTROL OF A TWO-TANK MOLTEN SALT THERMAL STORAGE FOR A CONCENTRATED SOLAR PLANT	7
<i>Jessica Leo ; Frans Davelaar ; Gildas Besançon ; Alina Voda</i>	
POINTWISE THÉVENIN EQUIVALENTS OF A SOLAR MODULE	13
<i>Rafael F. Q. Magossi ; Vilma A. Oliveira ; Ricardo Q. Machado ; Shankar P. Bhattacharyya</i>	
CONTROL OF A SOLAR FURNACE USING ACTIVE COOLING	19
<i>Bertinho A. Costa ; João M. Lemos ; Emmanuel Guillot</i>	
ABSORPTION HEAT PUMP PARAMETER IDENTIFICATION USING A MICRO GENETIC ALGORITHM	25
<i>Kasper Vinter ; Tom S. Pedersen ; Kirsten M. Nielsen</i>	
MODELING AND SIMULATION OF PARABOLIC TROUGH SOLAR FIELDS WITH PARTIAL RADIATION	31
<i>Sergio J. Navas ; Francisco R. Rubio ; Pedro Ollero ; Manuel G. Ortega</i>	
CONTROL CONFIGURATIONS IN DISTILLATION COLUMNS: A COMPARATIVE STUDY	37
<i>Max Thone ; Max Potters ; Simone Baldi</i>	
STEADY-STATE PARAMETER ESTIMATION OF AN EXPERIMENTAL VAPOUR COMPRESSION REFRIGERATION PLANT	43
<i>David Rodríguez ; José A. Alfaya ; Guillermo Bejarano ; Manuel G. Ortega ; F. Castaño</i>	
STEPWISE COMMISSIONING OF A STEAM BOILER WITH STABILITY GUARANTEES	49
<i>Simon Vestergaard Johansen ; Carsten Skovmose Kallesøe ; Jan Dimon Bendtsen ; Palle Andersen</i>	
SELF CALIBRATING FLOW ESTIMATION IN WASTE WATER PUMPING STATIONS	55
<i>Carsten Skovmose Kallesøe ; Torben Knudsen</i>	
CLOSED LOOP CONTROL OF AN ELECTROMAGNETIC STIRRER IN THE CONTINUOUS CASTING PROCESS	61
<i>Kevin Dekemele ; Clara-Mihaela Ionescu ; Michael De Doncker ; Robin De Keyser</i>	
GAIN-SCHEDULED COMPOSITE NONLINEAR FEEDBACK CONTROL OF AN EXOTHERMIC CHEMICAL REACTOR	67
<i>V. -P. Pyrhonen ; H. J. Koivisto</i>	
BLENDED CONTROL ALLOCATION AND LATERAL-DIRECTIONAL STABILITY OF THE REUSABLE LAUNCH VEHICLES	74
<i>Huang Huang</i>	
ENHANCED NONLINEAR MODEL AND CONTROL DESIGN FOR A FLEXIBLE WING	80
<i>Francesco Piovanelli ; Paolo Paoletti ; Giacomo Innocenti</i>	
STATE AGGREGATION APPROXIMATE DYNAMIC PROGRAMMING FOR MODEL-BASED SPACECRAFT AUTONOMY	86
<i>Massimo Tipaldi ; Luigi Glielmo</i>	
ALTERNATIVE REPRESENTATIONS OF FREQUENCY-DOMAIN CONSTRAINTS FOR IMPROVED PERFORMANCE IN ON-BLADE CONTROL SYSTEMS	92
<i>Rafael M. Morales</i>	
COMPENSATING ACTUATOR FAILURES IN NEAR SPACE VEHICLES USING ADAPTIVE FINITE TIME DISTURBANCE OBSERVER BASED BACKSTEPPING CONTROLLER	98
<i>Arghya Chakravarty ; Chitralekha Mahanta</i>	
CIRCULAR ORBIT SPACECRAFT CONTROL AT THE L4 POINT USING LYAPUNOV FUNCTIONS	104
<i>R. Agrawal ; R. N. Banavar</i>	
MULTI-OBJECTIVE CO-DESIGN FOR MODEL PREDICTIVE CONTROL WITH AN FPGA	110
<i>B. Khusainov ; E. C. Kerrigan ; G. A. Constantinides</i>	
FURTHER RESULTS ON THE EXPLORATION OF COMBINATORIAL TREE IN MULTI-PARAMETRIC QUADRATIC PROGRAMMING	116
<i>Parisa Ahmadi-Moshkenani ; Sorin Olaru ; Tor Arne Johansen</i>	
A PARAMETRIC AUGMENTED LAGRANGIAN ALGORITHM FOR REAL-TIME ECONOMIC NMPC	123
<i>Jean-Hubert Hours ; Harsh Shukla ; Colin N. Jones</i>	
HIGH-SPEED DIRECT MODEL PREDICTIVE CONTROL FOR POWER ELECTRONICS	129
<i>Bartolomeo Stellato ; Paul J. Goulart</i>	
NONLINEAR MPC FOR SUPERVISORY CONTROL OF HYBRID ELECTRIC VEHICLES	135
<i>Johannes Buerger ; Mark Cannon</i>	
TIME-OPTIMAL RACE CAR DRIVING USING AN ONLINE EXACT HESSIAN BASED NONLINEAR MPC ALGORITHM	141
<i>Robin Verschueren ; Mario Zanon ; Rien Quirynen ; Moritz Diehl</i>	
FINAL-STATE CONSTRAINED OPTIMAL CONTROL VIA A PROJECTION OPERATOR APPROACH	148
<i>Ivano Notarnicola ; Florian A. Bayer ; Giuseppe Notarstefano ; Frank Allgower</i>	
STOCHASTIC GRADIENT METHODS FOR STOCHASTIC MODEL PREDICTIVE CONTROL	154
<i>Andreas Themelis ; Silvia Villa ; Panagiotis Patrinos ; Alberto Bemporad</i>	

ON THE PERFORMANCE OF CONSENSUS BASED VERSUS LAGRANGIAN BASED ALGORITHMS FOR QUADRATIC COST FUNCTIONS	160
<i>Nicoletta Bof ; Ruggero Carli ; Luca Schenato</i>	
EFFICIENT STOCHASTIC MODEL PREDICTIVE CONTROL FOR EMBEDDED SYSTEMS BASED ON SECOND-ORDER CONE PROGRAMS	166
<i>Pablo Zometa ; Hannes Heinemann ; Sergio Lucia ; Markus Kogel ; Rolf Findeisen</i>	
ON SOME EXTENSIONS OF FAST-LIPSCHITZ OPTIMIZATION	172
<i>Sindri Magnússon ; Martin Jakobsson ; Carlo Fischione ; Pradeep Chathuranga Weeraddana</i>	
APPROXIMATE PARAMETRIC CONE PROGRAMMING WITH APPLICATIONS IN CONTROL	178
<i>Wannes Van Loock ; Erik Lambrechts ; Gijis Hilhorst ; Goele Pipeleers</i>	
LEARNING OF COOPERATIVE BEHAVIOUR IN ROBOT POPULATIONS	184
<i>Michalis Smyrnakis ; Dario Bauso ; Paul A. Trodden ; Sandor M. Veres</i>	
COOPERATIVE GAME THEORY TOOLS TO DETECT CRITICAL NODES IN DISTRIBUTED CONTROL SYSTEMS	190
<i>F. J. Muros ; E. Algaba ; J. M. Maestre ; E. F. Camacho</i>	
ON AGGREGATIVE AND MEAN FIELD GAMES WITH APPLICATIONS TO ELECTRICITY MARKETS	196
<i>Dario Paccagnan ; Maryam Kamgarpour ; John Lygeros</i>	
AN APPROXIMATE DYNAMIC INTEGRATION MECHANISM FOR LQ POWER NETWORKS WITH MULTI-TIME SCALE STRUCTURES	202
<i>Toshiyuki Murao ; Kenji Hirata ; Kenko Uchida</i>	
STOCHASTIC STABILITY OF POTENTIAL FUNCTION MAXIMIZERS IN CONTINUOUS VERSION OF INDEPENDENT LOG-LINEAR LEARNING	210
<i>Tatiana Tatarenko</i>	
COMPARING DIFFERENT CONTROL APPROACHES TO IMPLEMENT A HUMAN-LIKE VIRTUAL PLAYER IN THE MIRROR GAME	216
<i>Francesco Alderisio ; Dario Antonacci ; Chao Zhai ; Mario di Bernardo</i>	
SELF-ORGANIZING DISTRIBUTED CONTROL WITH SITUATION-DEPENDENT COMMUNICATION	222
<i>René Schuh ; Jan Lunze</i>	
DICHOTOMIC DIFFERENTIAL INEQUALITIES AND MULTI-AGENT COORDINATION	230
<i>Anton V. Proskurnikov ; Ming Cao</i>	
HIERARCHICAL DISTRIBUTED CONTROL OF A CLASS OF INTERCONNECTED JUMP SEMI-MARKOV LINEAR SYSTEMS	236
<i>Martin Jilg ; Olaf Stursberg</i>	
ON DISTRIBUTED COOPERATIVE DECISION-MAKING IN MULTIARMED BANDITS	243
<i>Peter Landgren ; Vaibhav Srivastava ; Naomi Ehrlich Leonard</i>	
COOPERATIVE RECONFIGURATION OF LOCALLY INTERCONNECTED SYSTEMS WITH LIMITED MODEL INFORMATION: A PLUG-AND-PLAY APPROACH	249
<i>Sven Bodenburg ; Jan Lunze</i>	
DISTRIBUTED LEARNING IN THE PRESENCE OF DISTURBANCES	257
<i>Chithrupa Ramesh ; Marius Schmitt ; John Lygeros</i>	
BACKSTEPPING-BASED SLIDING MODE CONTROL FOR AN INNOVATIVE ENGINE COOLING SYSTEM	263
<i>Saif Siddique Butt ; Robert Prabel ; Jisheng Zhang ; Harald Aschemann</i>	
DESIGN OF AN UNKNOWN INPUT OBSERVER TO ENHANCE DRIVER EXPERIENCE OF ELECTRIC POWER STEERING SYSTEMS	269
<i>M. Reichhartinger ; S. K. Spurgeon ; M. Weyrer</i>	
NONLINEAR ADAPTIVE CONTROL SCHEME FOR DISCRETE-TIME SYSTEMS WITH APPLICATION TO FREEWAY TRAFFIC FLOW NETWORKS	275
<i>Iasson Karafyllis ; Maria Kontorinaki ; Markos Papageorgiou</i>	
BACKSTEPPING-BASED STABILIZATION OF THE POOL-BOILING SYSTEM: AN APPLICATION OF THE CIRCLE CRITERION	283
<i>Alberto Taddeo ; Angelo Alessandri ; Patrizia Bagnerini ; Silvia Donnarumma</i>	
FINITE-TIME AND FIXED-TIME OBSERVERS DESIGN VIA IMPLICIT LYAPUNOV FUNCTION	289
<i>Francisco Lopez-Ramirez ; Andrey Polyakov ; Denis Efimov ; Wilfrid Perruquetti</i>	
EVENT-TRIGGERED SECOND ORDER SLIDING MODE CONTROL OF NONLINEAR UNCERTAIN SYSTEMS	295
<i>Michele Cucuzzella ; Antonella Ferrara</i>	
AVERAGED MODEL FOR POWER CONVERTERS WITH STATE JUMPS	301
<i>Elisa Mostacciolo ; Francesco Vasca</i>	
ADVERSARIAL CONTROL SCHEME FOR AN ISLANDED POWER PLANT	307
<i>Efstathios Kontourast ; Anthony Tzes ; Leonidas Dritsas</i>	
LEARNING TOPOLOGY OF THE POWER DISTRIBUTION GRID WITH AND WITHOUT MISSING DATA	313
<i>Deepjyoti Deka ; Scott Backhaus ; Michael Chertkov</i>	
CONTROL-ORIENTED FIRST PRINCIPLES-BASED MODEL OF A DIESEL GENERATOR	321
<i>Jesper Knudsen ; Jan Bendtsen ; Palle Andersen ; Kjeld Madsen ; Claes Sterregaard</i>	
OPTIMAL OPERATIONS AND LOAD ALLOCATION OF A POWER PLANT EQUIPPED WITH A CCHP FEEDING POWER, STEAM AND COLD WATER TO AN INDUSTRIAL PLANT	328
<i>Giovanni Gambino ; Francesca Verrilli ; Carmen Del Vecchio ; Luigi Glielmo</i>	
REACTIVE POWER CONSENSUS IN MICROGRIDS	334
<i>Miguel Parada Contzen ; Jörg Raisch</i>	

SOFT SENSING OF MELT TEMPERATURE IN POLYMER EXTRUSION	340
<i>Chamil Abeykoon</i>	
ROBUST H_∞-BASED CONTROL DESIGN FOR THE BEAM INJECTOR FACILITY	346
<i>Amin Rezaeizadeh ; Thomas Schilcher ; Roy S. Smith</i>	
STABILIZATION OF STICK-SLIP OSCILLATIONS INTEGRATING FLUID INJECTION IN OILWELL DRILLSTRING SYSTEM	352
<i>Samir Toumi ; Lotfi Beji ; Rhouma Mlayeh ; Azgal Abichou</i>	
AUTOTUNING METHOD FOR A FRACTIONAL ORDER CONTROLLER FOR A MULTIVARIABLE 13C ISOTOPE SEPARATION COLUMN	358
<i>Cristina I. Muresan ; Robin De Keyser ; Clara M. Ionescu</i>	
COMPARISON OF ONLINE-PARAMETER ESTIMATION METHODS APPLIED TO A LINEAR BELT DRIVE SYSTEM	364
<i>Daniel Beckmann ; Mauro Hernán Riva ; Matthias Dagen ; Tobias Ortmaier</i>	
TURNING PID CONTROLLER TUNING INTO A SIMPLE CONSIDERATION OF SETTLING TIME	370
<i>Jan Jantzen ; Carl Jakobsen</i>	
TEACHING PHYSICAL HUMAN-ROBOT INTERACTION TO COMPUTER SCIENCE UNDERGRADUATE STUDENTS	376
<i>Carlo Tadiello ; Giacomo De Rossi ; Marta Capiluppi ; Riccardo Muradore ; Paolo Fiorini</i>	
MULTIVARIABLE SLIDING MODE APPROACH WITH ENHANCED ROBUSTNESS PROPERTIES BASED ON THE ROBUST INTERNAL-LOOP COMPENSATOR FOR A CLASS OF NONLINEAR MECHANICAL SYSTEMS	382
<i>Almir Salihbegovic</i>	
ROBOT LEARNING FROM HUMAN DEMONSTRATION WITH REMOTE LEAD THROUGH TEACHING	388
<i>Hsien-Chung Lin ; Te Tang ; Yongxiang Fan ; Yu Zhao ; Masayoshi Tomizuka ; Wenjie Chen</i>	
TOWARDS THE DEVELOPMENT OF A NOVEL UPPER-BODY PNEUMATIC HUMANOID: DESIGN AND IMPLEMENTATION	395
<i>George Andrikopoulos ; George Nikolakopoulos ; Dariusz Kominiak ; Åsa Unander-Scharin</i>	
MINIMIZATION OF THE RATE OF CHANGE IN TORQUES DURING CONTACT TRANSITIONS FOR HUMANOIDS	401
<i>Yang Tan ; Darwin Lau ; Mingxing Liu ; Philippe Bidaud ; Vincent Padois</i>	
OPERATIONAL SPACE ROBOT CONTROL FOR MOTION PERFORMANCE AND SAFE INTERACTION UNDER UNINTENTIONAL CONTACTS	407
<i>Yiannis Karayiannidis ; Leonidas Droukas ; Zoe Doulgeri</i>	
SAFETY VERIFICATION OF OUTPUT FEEDBACK CONTROLLERS FOR NONLINEAR SYSTEMS	413
<i>Kendra Lesser ; Alessandro Abate</i>	
COMPUTING REACHABLE SETS OF LINEAR VECTOR FIELDS REVISITED	419
<i>Ting Gan ; Mingshuai Chen ; Yangjia Li ; Bican Xia ; Naijun Zhan</i>	
EXPERIMENT DESIGN FOR FORMAL VERIFICATION VIA STOCHASTIC OPTIMAL CONTROL	427
<i>S. Haesaert ; P. M. J. Van den Hof ; A. Abate</i>	
TOWARDS FORMAL VERIFICATION OF SMALL AND MICRO UAS	433
<i>Sandor M. Veres ; Owen McAree ; Jonathan M. Aitken</i>	
AUTOMATIC INVARIANT CHECKING FOR DISCRETE BLOCK DIAGRAMS USING LYAPUNOV FUNCTIONS WITH SAT MODULO THEORY SOLVERS	441
<i>Christian Dernehl</i>	
VERIFICATION OF POWER GRID VOLTAGE CONSTRAINT SATISFACTION — A BARRIER CERTIFICATE APPROACH	447
<i>Rasmus Pedersen ; Christoffer Sloth ; Rafaël Wisniewski</i>	
EXPLICIT MPC PHEV ENERGY MANAGEMENT USING MARKOV CHAIN BASED PREDICTOR: DEVELOPMENT AND VALIDATION AT ENGINE-IN-THE-LOOP TESTBED	453
<i>Raja Sangili Vadamalu ; Christian Beidl</i>	
STUDY OF THE PERFORMANCE OF THE MULTI-LEVEL ITERATION SCHEME FOR DYNAMIC ONLINE OPTIMIZATION FOR A FED-BATCH REACTOR EXAMPLE	459
<i>D. Haßkerl ; A. Meyer ; N. Azadfallah ; S. Engell ; A. Potschka ; L. Wirsching ; H. G. Bock</i>	
CONVERGENCE ANALYSIS OF TIME-OPTIMAL MODEL PREDICTIVE CONTROL UNDER LIMITED COMPUTATIONAL RESOURCES	465
<i>Christoph Rosmann ; Frank Hoffmann ; Torsten Bertram</i>	
NONLINEAR MODEL PREDICTIVE CONTROL BASED ON BERNSTEIN GLOBAL OPTIMIZATION WITH APPLICATION TO A NONLINEAR CSTR	471
<i>Bhagvish V. Patil ; Jan Maciejowski ; K. V. Ling</i>	
PATH-FOLLOWING NMPC FOR SERIAL-LINK ROBOT MANIPULATORS USING A PATH-PARAMETRIC SYSTEM REFORMULATION	477
<i>Niels van Duijkeren ; Robin Verschueren ; Goele Pipeleers ; Moritz Diehl ; Jan Swevers</i>	
MPC AND DOB-BASED ROBUST OPTIMAL CONTROL OF A NEW QUADROTOR MANIPULATION SYSTEM	483
<i>Ahmed Khalifa ; Mohamed Fanni ; Toru Namerikawa</i>	
ROBUST AND ADAPTIVE CONTROL USING MEASUREMENTS OF HIGHER ORDER DERIVATIVES	489
<i>Zilong Shao ; Gang Zheng ; Denis Efimov ; Wilfrid Perruquetti</i>	
ITERATIVE FEEDBACK TUNING FOR CASCADE SYSTEMS	495
<i>Douglas Tesch ; Diego Eckhard ; Alexandre S. Bazanella</i>	

IDENTIFYING SYSTEMS FROM CLOSED LOOPS: DUALITY TO ROBUST CONTROL AND AN UNSUNG OPPORTUNITY	501
<i>Christian Giang ; Leonid Mirkin</i>	
VIRTUAL REFERENCE FEEDBACK TUNING WITH BAYESIAN REGULARIZATION	507
<i>Gianmarco Rallo ; Simone Formentin ; Alessandro Chiuso ; Sergio M. Savaresi</i>	
MODEL ADEQUACY FOR A PRECISE OPTIMIZATION USING EXTREMUM SEEKING CONTROL	513
<i>Moncef Chioua ; Bala Srinivasan ; Martin Guay ; Michel Perrier</i>	
KERNEL-BASED DEADBEAT PARAMETRIC ESTIMATION OF BIAS-AFFECTED DAMPED SINUSOIDAL SIGNALS.....	519
<i>Peng Li ; Giuseppe Fedele ; Gilberto Pin ; Thomas Parisini</i>	
AN INDEX FOR THE “LOCAL” INFLUENCE IN SOCIAL NETWORKS	525
<i>Wilbert Samuel Rossi ; Paolo Frasca</i>	
TRANSIENT CLUSTER FORMATION IN GENERALIZED HEGSELMANN-KRAUSE OPINION DYNAMICS	531
<i>Florian Dietrich ; Samuel Martin ; Marc Jungers</i>	
MULTI-AGENT SYSTEM CONSENSUS UNDER INPUT AND STATE CONSTRAINTS	537
<i>Dinh Hoa Nguyen ; Tatsuo Narikiyo ; Michihiro Kawanishi</i>	
A BOUNDED CONFIDENCE MODEL THAT PRESERVES THE SIGNS OF THE OPINIONS.....	543
<i>Francesca Ceragioli ; Gustav Lindmark ; Clas Veibäck ; Niklas Wahlström ; Martin Lindfors ; Claudio Altafini</i>	
PIECEWISE QUADRATIC STABILITY OF CONSENSUS IN HETEROGENEOUS OPINION DYNAMICS	549
<i>Raffaele Iervolino ; Domenico Tangredi ; Francesco Vasca</i>	
ACHIEVING ROBUST AVERAGE CONSENSUS OVER WIRELESS NETWORKS	555
<i>Francesco Acciani ; Geert Heijnen ; Paolo Frasca</i>	
A SAMPLING APPROACH TO FINDING LYAPUNOV FUNCTIONS FOR NONLINEAR DISCRETE-TIME SYSTEMS.....	561
<i>Ruxandra Bobiti ; Mircea Lazar</i>	
ANALYSIS OF ALMOST-EVERYWHERE STABILITY OF A CLASS OF DISCONTINUOUS SYSTEMS VIA LYAPUNOV DENSITIES.....	567
<i>Izumi Masubuchi ; Yuzo Ohta</i>	
TIME-VARYING STABILIZATION OF A CLASS OF DRIFTLESS SYSTEMS SATISFYING SECOND-ORDER CONTROLLABILITY CONDITIONS.....	575
<i>Alexander Zuyev ; Victoria Grushkovskaya ; Peter Benner</i>	
FINITE-TIME STABILIZATION OF NONLINEAR QUADRATIC SYSTEMS BY A NON LINEAR STATE FEEDBACK	581
<i>B. Bhiri ; C. Delattre ; M. Zasadzinski ; K. Abderrahim</i>	
FREQUENCY DOMAIN ANALYSIS OF CONTROL SYSTEM BASED ON IMPLICIT LYAPUNOV FUNCTION.....	587
<i>Konstantin Zimenko ; Andrey Polyakov ; Denis Efimov ; Artem Kremlev</i>	
LYAPUNOV-BASED GENERIC CONTROLLER DESIGN FOR THRUST-PROPELLED UNDERACTUATED SYSTEMS.....	594
<i>Pedro O. Pereira ; Dimos V. Dimarogonas</i>	
WHAT IS DIFFERENT ABOUT EMBEDDED OPTIMIZATION?	600
<i>Eric C. Kerrigan ; Bulat Khusainov ; George A. Constantinides</i>	
SURVEY OF INDUSTRIAL APPLICATIONS OF EMBEDDED MODEL PREDICTIVE CONTROL	601
<i>Hans Joachim Ferreau ; Stefan Almér ; Helfried Peyrl ; Juan Luis Jerez ; Alexander Domahidi</i>	
EFFICIENT QUADRATIC PROGRAMMING FRAMEWORKS FOR INDUSTRIAL EMBEDDED MODEL PREDICTIVE CONTROL.....	602
<i>D. K. M. Kufoalor ; L. Imsland ; T. A. Johansen</i>	
IMPLICIT VS EXPLICIT MPC — SIMILARITIES, DIFFERENCES, AND A PATH TOWARDS A UNIFIED METHOD.....	603
<i>Michal Kvasnica</i>	
ROBUSTNESS MARGINS AND ROBUSTIFICATION OF NOMINAL EXPLICIT MPC.....	604
<i>Pedro Rodriguez-Ayerbe ; Sorin Olaru</i>	
PREDICTIVE PRESSURE CONTROL IN DEEP GEOTHERMAL SYSTEMS	605
<i>Moritz Schulze Darup ; Jörg Renner</i>	
DEVELOPMENT OF COOLING CONTROL TECHNOLOGY BY JUST-IN-TIME MODELING FOR POWER REDUCTION IN LARGE-SCALE DATA CENTER.....	611
<i>Hiroshi Endo ; Masatoshi Ogawa ; Takeo Kasajima ; Hiroyuki Fukuda</i>	
INTER-ARRAY CABLE ROUTING OPTIMIZATION FOR BIG WIND PARKS WITH OBSTACLES	617
<i>Martina Fischetti ; David Pisinger</i>	
COORDINATION OF ELECTRIC THERMAL SYSTEMS FOR DISTRIBUTED DEMAND-SIDE MANAGEMENT: A GOSSIP-BASED COOPERATIVE APPROACH.....	623
<i>Mauro Franceschelli ; Andrea Gasparri ; Alessandro Pisano</i>	
REAL-TIME SCENARIO-BASED STOCHASTIC OPTIMAL ENERGY MANAGEMENT STRATEGY FOR HEVS	631
<i>Xun Shen ; Jiangyan Zhang ; Tielong Shen</i>	
AN IDENTIFICATION APPROACH TO LIGHTING CONTROL.....	637
<i>Stefano Borile ; Ashish Pandharipande ; David Caicedo ; Angelo Cenedese ; Luca Schenato</i>	
H_2 MULTI-OBJECTIVE AND MULTI-MODEL MIMO CONTROL DESIGN FOR BROADBAND NOISE ATTENUATION IN AN ENCLOSURE	643
<i>Paul Loiseau ; Philippe Chevrel ; Mohamed Yagoubi ; Jean-Marc Duffal</i>	

ON THE USE OF FUZZY LOGIC CONTROLLERS TO COMPLY WITH VIRTUALIZED APPLICATION DEMANDS IN THE CLOUD	649
<i>Kyriakos M. Deliparaschos ; Themistoklis Charalambous ; Evangelia Kalyvianaki ; Christos Makarounas</i>	
TARGET EVASION STRATEGY AGAINST A FINITE SET OF MISSILE GUIDANCE LAWS	655
<i>Robert Fonod ; Tal Shima</i>	
HITTING TIME FOR DOUBLY-WEIGHTED GRAPHS WITH APPLICATION TO ROBOTIC SURVEILLANCE	661
<i>Andrea Carron ; Rushabh Patel ; Francesco Bullo</i>	
MODELLING FOR CONTROL OF A JET ENGINE COMPRESSOR VARIABLE STATOR VANES HYDRAULIC ACTUATOR	666
<i>Tomas Puller ; Andrea Lecchini-Visintini</i>	
INTERNAL MODEL-BASED CONTROL FOR LOITERING MANEUVERS OF UAVS	672
<i>G. Casadei ; L. Furieri ; N. Mimmo ; R. Naldi ; L. Marconi</i>	
ON NULL-SPACE CONTROL OF KINEMATICALLY REDUNDANT ROBOT MANIPULATORS	678
<i>Kamil Cetin ; Enver Tatlicioglu ; Erkan Zergeroglu</i>	
HANDLING VISUAL FEATURES LOSSES DURING A COORDINATED VISION-BASED TASK WITH A DUAL-ARM ROBOTIC SYSTEM	684
<i>Renliw Fleurmond ; Viviane Cadenat</i>	
TIMED AUTOMATA APPROACH FOR MOTION PLANNING USING METRIC INTERVAL TEMPORAL LOGIC	690
<i>Yuchen Zhou ; Dipankar Maity ; John S. Baras</i>	
CONTERWEIGHT SYNTHESIS FOR TIME-OPTIMAL ROBOTIC PATH FOLLOWING	696
<i>Frederik Debrouwere ; Jan Swevers</i>	
ROBUST WHOLE-BODY CONTROL OF AN UNMANNED AERIAL MANIPULATOR	702
<i>Laysa S. Mello ; Guilherme V. Raffo ; Bruno V. Adorno</i>	
FORMATION CONTROL OF MOBILE AGENTS WITH SECOND-ORDER NONLINEAR DYNAMICS IN UNKNOWN ENVIRONMENTS CONTAINING OBSTACLES	708
<i>Jie Huang ; Ming Cao ; Ning Zhou ; Yan Li</i>	
APPLICATION OF THE CONTINUOUS-DISCRETE EXTENDED KALMAN FILTER FOR FAULT DETECTION IN CONTINUOUS GLUCOSE MONITORS FOR TYPE 1 DIABETES	714
<i>Zeinab Mahmoudi ; Dimitri Boiroux ; Morten Hagdrup ; Kirsten Nørgaard ; Niels Kjølstad Poulsen ; Henrik Madsen ; John Bagterp Jørgensen</i>	
H. STRUCTURED RESIDUAL GENERATOR SYNTHESIS USING RESIDUAL REFERENCE MODELS WITH APPLICATION TO LATERAL VEHICLE DYNAMICS	720
<i>Lok Man Ho</i>	
DISTRIBUTED FAULT DETECTION WITH SENSOR NETWORKS USING PARETO-OPTIMAL DYNAMIC ESTIMATION METHOD	728
<i>Yilun Zhou ; Francesca Boem ; Carlo Fischione ; Thomas Parisini</i>	
A DEADBEAT ESTIMATOR-BASED FAULT ISOLATION SCHEME FOR NONLINEAR SYSTEMS	734
<i>Bolt Chen ; Thomas Parisini ; Marios M. Polycarpou</i>	
FAULT DETECTION FOR PROBABILISTIC BOOLEAN NETWORKS	740
<i>Thomas Leifeld ; Zhihua Zhang ; Ping Zhang</i>	
ADAPTIVE PID CONTROLLER BASED ON MODEL PREDICTIVE CONTROL	746
<i>Ahmed A. Abdelrauf ; M. Abdel-Geliel ; E. Zakzouk</i>	
CONSTRAINT REMOVAL IN LINEAR MPC: AN IMPROVED CRITERION AND COMPLEXITY ANALYSIS	752
<i>Michael Jost ; Gabriele Pannocchia ; Martin Mönnigmann</i>	
AN EXACT PENALTY-FUNCTION APPROACH TO PROACTIVE FAULT-TOLERANT ECONOMIC MPC	758
<i>Brage Rugstad Knudsen ; Jon H. Brusevold ; Bjarne Foss</i>	
A FLEXIBLE MOVE BLOCKING STRATEGY TO SPEED UP MODEL-PREDICTIVE CONTROL WHILE RETAINING A HIGH TRACKING PERFORMANCE	764
<i>Tim Schwickart ; Holger Voos ; Mohamed Darouach ; Souad Bezzaoucha</i>	
SOME OBSERVATIONS ON THE ACTIVITY OF TERMINAL CONSTRAINTS IN LINEAR MPC	770
<i>Moritz Schulze Darup ; Mark Cannon</i>	
POLE-PLACEMENT PFC (PREDICTIVE FUNCTIONAL CONTROL) FOR SYSTEMS WITH ONE OSCILLATORY MODE	776
<i>John A. Rossiter ; Robert Haber ; Khaled Zabet</i>	
HYBRID ADAPTIVE COMPENSATORS FOR MULTI-SINUSOIDAL DISTURBANCE REJECTION	782
<i>Patrizio Tomei ; Riccardo Marino</i>	
BASIS INTEGRAL CONCURRENT LEARNING MODEL REFERENCE ADAPTIVE CONTROL	788
<i>Namhoon Cho ; Youdan Kim</i>	
ATTENUATION OF VIBRATIONAL INTERFERENCE — ROBUST AND ADAPTIVE APPROACHES	794
<i>Tudor-Bogdan Airimitoae ; Ioan Doré Landau</i>	
APPROXIMATE DUAL CONTROL MAINTAINING THE VALUE OF INFORMATION WITH AN APPLICATION TO BUILDING CONTROL	800
<i>Edgar D. Klenske ; Philipp Hennig ; Bernhard Scholkopf ; Melanie N. Zeilinger</i>	
ADAPTIVE WAVE FILTERING FOR MARINE VESSELS WITHIN UD-BASED ALGORITHMS	807
<i>Maria V. Kulikova ; Julia V. Tsyganova ; Innokentiy Semushin</i>	
ADAPTIVE BACKSTEPPING GLOBAL SLIDING FUZZY NEURAL CONTROLLER FOR MEMS GYROSCOPE	813
<i>Yundi Chu ; Juntao Fei</i>	

POSITIVE CONTROLLABILITY OF LARGE-SCALE NETWORKS	819
<i>Gustav Lindmark ; Claudio Altafini</i>	
ON THE CONVEXITY OF A CLASS OF STRUCTURED OPTIMAL CONTROL PROBLEMS FOR POSITIVE SYSTEMS	825
<i>Neil K. Dhingra ; Marcello Colombino ; Mihailo R. Jovanovic</i>	
MONOTONICITY OF ACTUATED FLOWS ON DISSIPATIVE TRANSPORT NETWORKS	831
<i>Anatoly Zlotnik ; Sidhant Misra ; Marc Vuffray ; Michael Chertkov</i>	
FORMATION CONTROL OF QUADROTORS BASED ON INTERCONNECTED POSITIVE SYSTEMS	837
<i>Jun-ichi Toji ; Hiroyuki Ichihara</i>	
OBSERVER DESIGN OF POSITIVE QUADRATIC SYSTEMS	843
<i>Yuji Okamoto ; Jun-ichi Imura ; Mariko Okada-Hatakeyama</i>	
MINIMUM CONTROLLER SUBSTRUCTURE FOR GENERIC ARBITRARY POLE PLACEMENT: MULTICOMMODITY FLOW AND TSP BASED FORMULATIONS	849
<i>Atreya Kotoky ; Ashutosh Mahajan ; Ashwin Arulseelan ; Madhu N. Belur ; Rachel K. Kalaimani</i>	
ON SMALL-CONTROLLABILITY AND NEAR-REACHABILITY OF A CLASS OF DISCRETE-TIME BILINEAR SYSTEMS	855
<i>Lin Tie</i>	
CONCURRENT SYNCHRONIZATION OF NEURAL NETWORKS VIA EXCITATORY-ONLY COUPLING WITH DIFFERENT TOPOLOGIES	861
<i>M. L. Corradini ; A. Cristofaro ; R. Giambò ; F. Giannoni ; S. Pettinari</i>	
INVARIANCE CONTROL WITH TIME-VARYING CONSTRAINTS	867
<i>Melanie Kimmel ; Sandra Hirche</i>	
PHASE LOCKING, OSCILLATIONS AND CYCLE SLIPPING IN SYNCHRONIZATION SYSTEMS	873
<i>Vera Smirnova ; Anton V. Proskurnikov</i>	
GENERATING PATTERNS USING MULTIPLE TARGETS	879
<i>Twinkle Tripathy ; Ankita Humne ; Arpita Sinha</i>	
ASPECTS OF GLOBALLY-STABLE TRACKING FOR CERTAIN CLASSES OF SIMPLE MECHANICAL SYSTEMS	885
<i>A. Nayak ; R. N. Banavar</i>	
WIND FARM AXIAL-INDUCTION FACTOR OPTIMIZATION FOR POWER MAXIMIZATION AND LOAD ALLEVIATION	891
<i>J. J. Barradas-Berglind ; Rafael Wisniewski</i>	
ENHANCED SECONDARY FREQUENCY CONTROL VIA DISTRIBUTED PEER-TO-PEER COMMUNICATION	897
<i>Chenye Wu ; Soumya Kar ; Gabriela Hug</i>	
ECONOMIC MPC FOR A LINEAR STOCHASTIC SYSTEM OF ENERGY UNITS	903
<i>John Bagterp Jørgensen ; Leo Emil Sokoler ; Laura Standardi ; Rasmus Halvgaard ; Tobias Gybel Hovgaard ; Gianluca Frison ; Niels Kjølstad Poulsen ; Henrik Madsen</i>	
DISTRIBUTED OPTIMAL CONTROL AND CONGESTION MANAGEMENT IN THE UNIVERSAL SMART ENERGY FRAMEWORK	910
<i>D. Bao Nguyen ; Jacquelin M. A. Scherpen ; Frits Bliet ; Wouter Kramer ; Gunn K. H. Larsen</i>	
OPTIMAL GENERATION IN STRUCTURE-PRESERVING POWER NETWORKS WITH SECOND-ORDER TURBINE-GOVERNOR DYNAMICS	916
<i>S. Trip ; C. De Persis</i>	
OPTIMISATION OF WIND PLANT SECTOR MANAGEMENT FOR ENERGY AND LOADS	922
<i>Ervin Bossanyi ; Tiago Jorge</i>	
CONSTRUCTION OF ROBUST LYAPUNOV FUNCTIONS FOR REACTION NETWORKS	928
<i>M. Ali Al-Radhawi ; David Angeli</i>	
CONSTRUCTIONS OF LYAPUNOV FUNCTIONS FOR LARGE-SCALE NETWORKED CONTROL SYSTEMS WITH PACKET-BASED COMMUNICATION	936
<i>W. P. M. H. Heemels ; D. P. Borgers ; V. S. Dolk ; R. Geiselhart ; S. H. J. Heijmans</i>	
SHARED-CONTROL FOR TYPICAL DRIVING SCENARIOS	939
<i>Jingjing Jiang ; Alessandro Astolfi</i>	
ESTIMATION OF PARAMETERS AND DELAY IN DRIVER MODELS USING L_1-REGULARIZATION	945
<i>SeyedMehrdad Hosseini ; Hakan Koroğlu ; Jonas Sjöberg</i>	
GENERALIZED DRIVER STEERING MODEL BASED ON SIMILARITIES IN VISUAL-BASED AND OPTIMAL PREVIEW CONTROLS	951
<i>Sergey Abrashov ; Mathieu Moze ; Xavier Moreau ; Rachid Malti ; Francois Aioun ; Franck Guillemard</i>	
EFFICIENT IMPLEMENTATION OF RANDOMIZED MPC FOR MINIATURE RACE CARS	957
<i>Jesús Velasco Carrau ; Alexander Liniger ; Xiaojing Zhang ; John Lygeros</i>	
NONLINEAR CONTROLLER DESIGN BASED ON FEEDFORWARD EXACT INPUT-OUTPUT LINEARIZATION FOR ACTIVE REAR-WHEEL STEERING IN PASSENGER VEHICLES	963
<i>Steffen Wagner ; Günther Prokop</i>	
OPTIMIZATION OF ACTIVE YAW CONTROL IN AN AUTONOMOUS ELECTRIC RACING CAR	971
<i>Robert Dollinger ; Carsten Markgraf ; Nesimi Ertugrul</i>	
WEAK RESILIENCE OF NETWORKED CONTROL SYSTEMS	977
<i>Tomonori Sadamoto ; Henrik Sandberg ; Bart Besselink ; Takayuki Ishizaki ; Jun-ichi Imura ; Karl Henrik Johansson</i>	
DYNAMIC THRESHOLDS IN ROBUST EVENT-TRIGGERED CONTROL FOR DISCRETE-TIME LINEAR SYSTEMS	983
<i>F. D. Brunne ; W. P. M. H. Heemels ; F. Allgower</i>	

STRONG SEMISTABILIZABILITY AND PARTIAL SEMISTABILIZABILITY WITH APPLICATIONS TO SEMISTABILIZATION ANALYSIS OF MULTI-LAYER NETWORKS	989
<i>Qing Hui ; Chen Peng</i>	
IMPROVED ASYNCHRONOUS EVENT-TRIGGERED CONTROL FOR LINEAR SYSTEMS WITH PERFORMANCE GUARANTEES	995
<i>Anqi Fu ; Manuel Mazo</i>	
MAXIMIZATION OF INFORMATION IN ENERGY-LIMITED DIRECTED COMMUNICATION	1001
<i>Touraj Soleymani ; Sandra Hirche ; John S. Baras</i>	
ONLINE TIME DELAY ESTIMATION IN NETWORKED CONTROL SYSTEMS WITH APPLICATION TO BILATERAL TELEOPERATION	1007
<i>Kamil Cetin ; Alper Bayrak ; Enver Tatlicioglu</i>	
ECONOMIC MPC WITH PERIODIC TERMINAL CONSTRAINTS OF NONLINEAR DIFFERENTIAL-ALGEBRAIC-EQUATION SYSTEMS: APPLICATION TO DRINKING WATER NETWORKS	1013
<i>Ye Wang ; Vicenç Puig ; Gabriela Cembrano</i>	
OPTIMAL MANAGEMENT OF HYDROGEN IN A PETROL REFINERY	1019
<i>Elena G. Sayalero ; Daniel Sarabia ; Gloria Gutiérrez ; Sergio Mármol ; José Miguel Sola ; Carlos Pascual ; Rafael González ; Cesar de Prada</i>	
CHALLENGES OF THE APPLICATION OF DATA-DRIVEN MODELS FOR THE REAL-TIME OPTIMIZATION OF AN INDUSTRIAL AIR SEPARATION PLANT	1025
<i>Dionysios P. Xenos ; Olaf Kahrs ; Matteo Ciccioiti ; Fernando Moreno Leira ; Nina F. Thornhill</i>	
MULTI-ENERGY SITE OPTIMIZATION	1031
<i>Lennart Merkert ; Rüdiger Franke</i>	
INDUSTRIAL APPLICATION OF MODEL PREDICTIVE CONTROL TO A MILK POWDER SPRAY DRYING PLANT	1038
<i>Lars Norbert Petersen ; Niels Kjolstad Poulsen ; Hans Henrik Niemann ; Christer Utzen ; John Bagterp Jørgensen</i>	
SHARED RESOURCE ALLOCATION IN AN INTEGRATED PETROCHEMICAL SITE BY PRICE-BASED COORDINATION USING QUADRATIC APPROXIMATION	1045
<i>Simon Wenzel ; Radoslav Paulen ; Stefan Krämer ; Benedikt Beisheim ; Sebastian Engell</i>	
IMC BASED ITERATIVE LEARNING CONTROL OF DOC TEMPERATURE DURING DPF REGENERATION	1051
<i>Jinbiao Ning ; Fengjun Yan</i>	
SUBSPACE ALGORITHM FOR IDENTIFYING BILINEAR REPETITIVE PROCESSES WITH DETERMINISTIC INPUTS	1057
<i>José A. Ramos ; Eric Rogers ; Paulo Lopes dos Santos ; Teresa Perdicoulis</i>	
HAMMERSTEIN SYSTEM IDENTIFICATION USING LS-SVM AND STEADY STATE TIME RESPONSE	1063
<i>Ricardo Castro-García ; Oscar Mauricio Agudelo ; Koen Tiels ; Johan A. K. Suykens</i>	
EVALUATION OF POLYNOMIAL MODELS TO PREDICT METHANE PRODUCTION IN BATCH MODE BIOREACTORS	1069
<i>Tamara Salvatori ; Guilherme Araujo Pimentel ; Alexandre Sanfelice Bazanella</i>	
ONLINE IDENTIFICATION OF CONTINUOUS BIMODAL AND TRIMODAL PIECEWISE AFFINE SYSTEMS	1075
<i>Le Quang Thuan ; Ton van den Boom ; Simone Baldi</i>	
A FORECASTING ALGORITHM FOR LATENCY COMPENSATION IN INDIRECT HUMAN-COMPUTER INTERACTIONS	1081
<i>Rosane Ushirobira ; Denis Efimov ; Géry Casiez ; Nicolas Roussel ; Wilfrid Perruquetti</i>	
CONTROLLABILITY OF PASSIVE SINGLE-INPUT SINGLE-OUTPUT SYSTEMS	1087
<i>Timothy H. Hughes</i>	
EQUIVALENCE OF REGULAR MATRIX PENCIL DAE SYSTEMS BY BISIMULATION	1093
<i>Noorma Yulia Megawati ; Arjan van der Schaft</i>	
FAULT TOLERANT CONTROL IN A SET-MEMBERSHIP FRAMEWORK	1099
<i>R. Lamouchi ; T. Raïssi ; M. Amairi ; M. Aoun</i>	
FAULT TOLERANT CONTROL APPROACH BASED ON MULTIPLE MODELS AND SET-MEMBERSHIP STATE ESTIMATION	1105
<i>S. Ben Chabane ; C. Stoica Maniu ; E. F. Camacho ; T. Alamo ; D. Dumur</i>	
COMPARISON OF SET-MEMBERSHIP AND INTERVAL OBSERVER APPROACHES FOR STATE ESTIMATION OF UNCERTAIN SYSTEMS	1111
<i>Masoud Pourasghar ; Vicenç Puig ; Carlos Ocampo-Martinez</i>	
NEW RESULTS AND ALGORITHMS FOR COMPUTING STORAGE FUNCTIONS: THE LOSSLESS/ALL-PASS CASES	1117
<i>Sandeep Kumar ; Chayan Bhawal ; Debasattam Pal ; Madhu N. Belur</i>	
PROBABILISTIC SHORT-TERM LOAD FORECASTING WITH CONDITIONAL MEAN-VARIANCE AND QUANTILE REGRESSION MODELS	1123
<i>Can Bikcora ; Lennart Verheijen ; Siep Weiland</i>	
ON COMPUTATIONAL ROBUSTNESS OF ACCURATE CONTINUOUS-DISCRETE UNSCENTED KALMAN FILTERING FOR TARGET TRACKING MODELS	1129
<i>Maria V. Kulikova ; Gennady Yu. Kulikov</i>	
SMOOTHED MULTIPLE MODEL ADAPTIVE ESTIMATION	1135
<i>Tamas Baar ; Bence Beke ; Peter Bauer ; Balint Vanek ; Jozsef Bokor</i>	
INTERVAL ESTIMATION OF SEQUESTERED INFECTED ERYTHROCYTES IN MALARIA PATIENTS	1141
<i>Kwassi H. Degue ; Denis Efimov ; Abderrahman Iggidr</i>	

A POLYTOPIC APPROACH FOR THE NONLINEAR UNKNOWN INPUT FUNCTIONAL OBSERVERS DESIGN: APPLICATION TO A QUADROTOR AERIAL ROBOTS LANDING	1146
<i>Souad Bezzaoucha ; Holger Voos ; Mohamed Darouach</i>	
IMPROVING KALMAN FILTERING BY INPUT SELECTION FOR NONUNIFORMLY OBSERVABLE STATE-AFFINE SYSTEMS	1153
<i>Ignacio Rubio Scola ; Gildas Besançon ; Didier Georges</i>	
EFFICIENT HVAC CONTROLS: A SYMBOLIC APPROACH	1159
<i>Ondrej Holub ; Majid Zamani ; Alessandro Abate</i>	
USAGE OF SPOT MARKET PRICES PREDICTION FOR DEMAND SIDE MANAGEMENT	1165
<i>Jiří Cigler ; Zdeněk Váňa ; Tomáš Mužík ; Jan Šulc ; Lukáš Ferkl</i>	
INTEGRATED DYNAMIC MODELLING AND MULTIVARIABLE CONTROL OF HVAC COMPONENTS	1171
<i>Harish Satyavada ; Robert Babuška ; Simone Baldi</i>	
TEST BUILDINGS WITH TABS FOR MPC-PERFORMANCE EVALUATION — COMPARABILITY AND SYSTEM IDENTIFICATION	1177
<i>Martin Felix Pichler ; Gregor Goertler ; Hermann Schranzhofer</i>	
ONLINE TRANSFER LEARNING FOR CLIMATE CONTROL IN RESIDENTIAL BUILDINGS	1183
<i>Thomas Grubinger ; Georgios C. Chasparis ; Thomas Natschläger</i>	
ADAPTIVE QUANTILE ESTIMATION IN PERFORMANCE MONITORING OF BUILDING AUTOMATION SYSTEMS	1189
<i>Petr Endel ; Ondrej Holub ; Jan Berka</i>	
ROBUST MODEL PREDICTIVE CONTROL FOR AN UNCERTAIN SMART THERMAL GRID	1195
<i>Samira S. Farahani ; Zofia Lukszo ; Tamás Keviczky ; Bart De Schutter ; Richard M. Murray</i>	
ROBUST RANDOMIZED MODEL PREDICTIVE CONTROL FOR ENERGY BALANCE IN SMART THERMAL GRIDS	1201
<i>Vahab Rostampour ; Tamás Keviczky</i>	
APPLICATION OF ROBUST MODEL PREDICTIVE CONTROL TO A RENEWABLE HYDROGEN-BASED MICROGRID	1209
<i>P. Velarde ; J. M. Maestre ; C. Ocampo-Martinez ; C. Bordons</i>	
ADAPTIVE CERTAINTY-EQUIVALENT APPROACH FOR OPTIMAL GENERATOR DISPATCH UNDER UNCERTAINTY	1215
<i>Tomás Tinoco De Rubira ; Gabriela Hug</i>	
MIN-MAX CONTROL OF FUEL-CELL-CAR-BASED SMART ENERGY SYSTEMS	1223
<i>Farid Alavi ; Nathan van de Woijw ; Bart De Schutter</i>	
SEQUENTIAL DECISION-MAKING STRATEGY FOR A DEMAND RESPONSE AGGREGATOR IN A TWO-SETTLEMENT ELECTRICITY MARKET	1229
<i>Frederik Ruelens ; Bert J. Claessens ; Ronnie Belmans ; Geert Deconinck</i>	
FINITE LENGTH WIRE ELECTRO-THERMAL MODELING FOR AUTOMOTIVE APPLICATIONS USING H₂-NORM BASED APPROXIMATION OF A FRACTIONAL MODEL	1236
<i>Mathieu Chevrié ; Christophe Farges ; Jocelyn Sabatier ; Franck Guillemard ; Laetitia Pradere ; Tudor-Bogdan Airimitoai</i>	
REAL-TIME REJECTION OF AMMONIA CROSS SENSITIVITY IN SENSORS FOR DIESEL AFTERTREATMENT SYSTEMS BY PARALLEL PARTICLE FILTERING	1242
<i>Jonathan Sowman ; Dina Laila ; Anthony Truscott ; Peter Fussey ; Andrew Cruden</i>	
PERFORMANCE ENHANCEMENT OF SPARK IGNITION ENGINES BY USING FRACTIONAL ORDER CONTROLLER	1248
<i>Mahdi Zarghami ; Mehrdad Babazadeh ; S. Hassan Hosseinnia</i>	
INVERSE ADAPTIVE AIR-FUEL RATIO CONTROL IN SPARK IGNITION ENGINES	1253
<i>Dmitry N. Gerasimov ; Mikhail E. Belyaev ; Vladimir O. Nikiforov ; Hossein Javaherian ; Shifang Li ; Yiran Hu</i>	
D-OPTIMIZATION BASED MAPPING CALIBRATION OF AIR MASS FLOW IN COMBUSTION ENGINES	1259
<i>Mitsuru Toyoda ; Tielong Shen</i>	
STOCHASTIC APPROXIMATION FOR COMBUSTION PHASE OPTIMIZATION OF SI GASOLINE ENGINES	1265
<i>Yahui Zhang ; Tielong Shen</i>	
THE MOVING HORIZON ESTIMATOR USED IN ICEBERG DRIFT ESTIMATION AND FORECAST	1271
<i>Leif Erik Andersson ; Francesco Scibilia ; Lars Imsland</i>	
EXPLICIT USE OF PROBABILISTIC DISTRIBUTIONS IN ROBUST PREDICTIVE CONTROL OF WATERBORNE AGVS — A COST-EFFECTIVE APPROACH	1278
<i>Huarong Zheng ; Rudy R. Negenborn ; Gabriël Lodewijks</i>	
ANTI-WINDUP SYNTHESIS OF HEADING AND SPEED REGULATORS FOR SHIP CONTROL WITH ACTUATOR SATURATION	1284
<i>S. Donnarumma ; L. Zaccarian ; A. Alessandri ; S. Vignolo</i>	
EFFECTS OF WIND ON SURFACE FEED DISTRIBUTION IN SEA CAGE AQUACULTURE: A SIMULATION STUDY	1291
<i>Kristoffer Rist Skøien ; Morten Omholt Alver ; Sarah Lundregan ; Kevin Frank ; Jo Arve Alfredsen</i>	
A MOVING PATH FOLLOWING APPROACH FOR TRAJECTORY OPTIMIZATION OF UAVS: AN APPLICATION FOR TARGET TRACKING OF MARINE VEHICLES	1297
<i>Alessandro Rucco ; A. Pedro Aguiar ; Fernando Lobo Pereira ; João Borges de Sousa</i>	
ROV END-EFFECTOR STABILIZATION FOR UNKNOWN, TIME-VARYING CURRENTS	1303
<i>Erlend K. Jørgensen ; Ingrid Schjølberg</i>	
REPLICATING EXISTING SOLUTION AS INITIAL STEP OF MPC COMMISSIONING	1309
<i>Per Erik Modén ; Michael Lundh ; Gustav Henriks</i>	

CONSTRAINT ROBUST MODEL PREDICTIVE CONTROL FOR JUMP MARKOV LINEAR SYSTEMS WITH ADDITIVE DISTURBANCES	1315
<i>Jens Tonne ; Olaf Stursberg</i>	
ON THE UNRESTRICTED HORIZON PREDICTIVE CONTROL — A FULLY STOCHASTIC MODEL-BASED PREDICTIVE APPROACH.....	1322
<i>Rodrigo Trentini ; Antonio Silveira ; Rüdiger Kutzner ; Lutz Hofmann</i>	
PYTHON CODE GENERATION FOR EXPLICIT MPC IN MPT	1328
<i>Bálint Takács ; Juraj Števek ; Richard Valo ; Michal Kvasnica</i>	
EFFICIENCY AND PERFORMANCE OF EMBEDDED MODEL PREDICTIVE CONTROL FOR ACTIVE VIBRATION ATTENUATION	1334
<i>Gergely Takács ; Pablo Zometa ; Rolf Findeisen ; Boris Rohal'-Ilkiv</i>	
EFFICIENT FEED FORWARD DESIGN WITHIN MPC.....	1341
<i>S. S. Dughman ; John A. Rossiter</i>	
INTERVAL DIFFERENTIATORS: ON-LINE ESTIMATION OF DIFFERENTIATION ACCURACY	1347
<i>Matteo Guerra ; Carlos Vázquez ; Denis Efimov ; Gang Zheng ; Leonid Freidovich ; Wilfrid Perruquetti</i>	
RECURSIVE SYSTEM IDENTIFICATION ALGORITHM USING BINARY MEASUREMENTS	1353
<i>Mathieu Poulliquen ; Tomas Menard ; Eric Pigeon ; Olivier Gehan ; Abdelhak Goudjil</i>	
ON-LINE BAYESIAN SYSTEM IDENTIFICATION	1359
<i>D. Romeres ; G. Prando ; G. Pillonetto ; A. Chiuso</i>	
CLASSICAL VS. BAYESIAN METHODS FOR LINEAR SYSTEM IDENTIFICATION: POINT ESTIMATORS AND CONFIDENCE SETS.....	1365
<i>G. Prando ; D. Romeres ; G. Pillonetto ; A. Chiuso</i>	
PERFORMANCE ANALYSIS AND FILTER CHOICE FOR AN ERRORS-IN-VARIABLES METHOD.....	1371
<i>Magnus Mossberg</i>	
SUBSPACE IDENTIFICATION METHOD INCORPORATED WITH A PRIORI INFORMATION CHARACTERIZED IN FREQUENCY DOMAIN	1377
<i>Yuma Abe ; Masaki Inoue ; Shuichi Adachi</i>	
ON THE STRUCTURE OF THE SOLUTIONS OF THE CONSTRAINED GENERALIZED DISCRETE-TIME ALGEBRAIC RICCATI EQUATION	1383
<i>Lorenzo Ntogramatzidis ; Augusto Ferrante</i>	
JORDAN ALGEBRA AND CONTROL THEORY	1389
<i>Z. Szabo ; J. Bokor</i>	
NEW RESULTS IN THE COMPUTATION OF OUTPUT-NULLING SUBSPACES	1395
<i>Lorenzo Ntogramatzidis</i>	
A NEW METHOD FOR THE ROW-BY-ROW DECOUPLING PROBLEM WITH POLE ASSIGNMENT	1401
<i>Emanuele Garone ; Robert Schmid ; Lorenzo Ntogramatzidis</i>	
FINITE-TIME STABILIZABILITY AND DETECTABILITY OF LINEAR SYSTEMS. PART II: DESIGN OF OBSERVER BASED OUTPUT FEEDBACK FINITE-TIME STABILIZING CONTROLLERS.....	1406
<i>F. Amato ; M. Darouach ; G. De Tommasi</i>	
FINITE-TIME STABILIZABILITY AND DETECTABILITY OF LINEAR SYSTEMS. PART I: NECESSARY AND SUFFICIENT CONDITIONS FOR THE EXISTENCE OF OUTPUT FEEDBACK FINITE-TIME STABILIZING CONTROLLERS.....	1412
<i>F. Amato ; M. Darouach ; G. De Tommasi</i>	
INTERVAL OBSERVERS FOR CONTINUOUS-TIME BILINEAR SYSTEMS WITH DISCRETE-TIME OUTPUTS	1418
<i>Thach Ngoc Dinh ; Hiroshi Ito</i>	
LOW-POWER PEAKING-FREE HIGH-GAIN OBSERVERS FOR NONLINEAR SYSTEMS	1424
<i>Daniele Astolfi ; Lorenzo Marconi ; Andrew Teel</i>	
A REDUCED ORDER DIRECT COUPLING COHERENT QUANTUM OBSERVER FOR A COMPLEX QUANTUM PLANT	1430
<i>Ian R. Petersen ; Elanor H. Huntington</i>	
STATE ESTIMATION FOR LINEAR SYSTEMS WITH ADDITIVE CAUCHY NOISES: OPTIMAL AND SUBOPTIMAL APPROACHES	1434
<i>Robert Fonod ; Moshe Idan ; Jason L. Speyer</i>	
COOPERATIVE INDOOR POSITIONING BY EXCHANGE OF BLUETOOTH SIGNALS AND STATE ESTIMATES BETWEEN USERS	1440
<i>Martin Karlsson ; Fredrik Karlsson</i>	
DYNAMICS OF COLLECTIVES WITH OPINIONATED AGENTS: THE CASE OF SCRAMBLING CONNECTIVITY.....	1445
<i>Christoforos Somarakis ; Reza Hadadi ; John S. Baras</i>	
A MODEL-BASED ROBUST ICING DETECTION AND ESTIMATION SCHEME FOR WIND TURBINES	1451
<i>M. L. Corradini ; A. Cristofaro ; S. Pettinari</i>	
MODEL PREDICTIVE CONTROL FOR WIND TURBINE POWER BOOSTING	1457
<i>Peter Fogh Odgaard ; Tobias Gybel Hovgaard ; Rafael Wiesniewski</i>	
PREDICTIVE CONTROL DESIGN ON AN EMBEDDED ROBUST OUTPUT-FEEDBACK COMPENSATOR FOR WIND TURBINE BLADE-PITCH PREVIEW CONTROL	1463
<i>Wai Hou Lio ; J. A. Rossiter ; Bryn Ll. Jones</i>	
WIND TURBINES CONTROLLERS DESIGN BASED ON THE SUPER-TWISTING ALGORITHM	1469
<i>Y. Vidal ; L. Aho ; J. Rodellar ; C. Tutivén</i>	

LMI APPROACHES FOR A ROBUST CONTROL OF A WIND TURBINE WITH A HYDROSTATIC TRANSMISSION	1475
<i>Julia Kersten ; Harald Aschemann</i>	
HARDWARE-IN-THE-LOOP DRIVE TRAIN CONTROL FOR REALISTIC EMULATION OF ROTOR TORQUE IN A FULL-SCALE WIND TURBINE NACELLE TEST RIG	1481
<i>Mohsen Neshati ; Adam Zuga ; Torben Jersch ; Jan Wenske</i>	
ON STABILITY OF A DISTRIBUTED AVERAGING PI FREQUENCY AND ACTIVE POWER CONTROLLED DIFFERENTIAL-ALGEBRAIC POWER SYSTEM MODEL	1487
<i>Johannes Schiffer ; Florian Dörfler</i>	
PLUG-AND-PLAY CONTROL OF AC ISLANDED MICROGRIDS WITH GENERAL TOPOLOGY	1493
<i>Michele Tucci ; Alessandro Floriduz ; Stefano Rivero ; Giancarlo Ferrari-Trecate</i>	
A MODULAR DESIGN OF INCREMENTAL LYAPUNOV FUNCTIONS FOR MICROGRID CONTROL WITH POWER SHARING	1501
<i>C. De Persis ; N. Monshizadeh</i>	
A MASTER/SLAVE CONTROL OF DISTRIBUTED ENERGY RESOURCES IN LOW-VOLTAGE MICROGRIDS	1507
<i>Guido Cavraro ; Tommaso Caldognetto ; Ruggero Carli ; Paolo Tenti</i>	
ON EXISTENCE AND STABILITY OF EQUILIBRIA OF DC LTI CIRCUITS WITH CONSTANT POWER LOADS	1513
<i>Nikita Barabanov ; Romeo Ortega ; Robert Griño ; Boris Polyak</i>	
DYNAMICAL DECENTRALIZED VOLTAGE CONTROL OF MULTI-TERMINAL HVDC GRIDS	1519
<i>Martin Andreasson ; Na Li</i>	
CONTROL ALLOCATION OVERVIEW AND APPLICATION TO MARINE VESSEL CONTROL	1525
<i>Tor A. Johansen</i>	
DECENTRALIZED CONSTRUCTIVE COLLISION AVOIDANCE FOR MULTI-AGENT DYNAMICAL SYSTEMS	1526
<i>M. T. Nguyen ; C. Stoica Maniu ; S. Oлару</i>	
DYNAMIC MODELING AND CONTROLLER DESIGN OF AN OMNIWHEEL MOBILE PLATFORM BY DIFFERENTIAL PARAMETERIZATION	1532
<i>Zhongyi Gong ; Ulrich Konigorski</i>	
COMPOSITE NONLINEAR FEEDBACK-BASED BOUNDED FORMATION CONTROL OF MULTI-QUADROTOR SYSTEMS	1538
<i>Zhicheng Hou ; Isabelle Fantoni</i>	
OBSERVERS AND OUTPUT FEEDBACK CONSENSUS CONTROLLERS FOR CONTINUOUS-TIME STRICT-FEEDBACK MULTI-AGENT SYSTEMS WITH SAMPLED OBSERVATION	1544
<i>Hitoshi Katayama</i>	
OPTIMAL LEADER SELECTION FOR CONTROLLABILITY AND ROBUSTNESS IN MULTI-AGENT NETWORKS	1550
<i>Katherine Fitch ; Naomi Ehrlich Leonard</i>	
FORCE COMPENSATION FOR ANTI-COLLISION IN PLACING A MAGNETIZED COMPONENT ON FERROMAGNETIC PLATE	1556
<i>Takeshi Mizuno ; Yuji Ishino ; Masaya Takasaki</i>	
MPC DESIGN FOR THE LONGITUDINAL MOTION OF A PASSENGER AIRCRAFT BASED ON OPERATOR-SPLITTING AND FAST-GRADIENT METHODS	1562
<i>Laura Ferranti ; Tamás Keviczky</i>	
REGIONLESS EXPLICIT MPC OF A DISTILLATION COLUMN	1568
<i>Ján Drgoňa ; Filip Janeček ; Martin Klaučo ; Michal Kvasnica</i>	
OPTIMAL CONTROL FOR MINIMIZING POWER CONSUMPTION DURING HOLDING PATTERNS FOR AIRBORNE WIND ENERGY PUMPING SYSTEM	1574
<i>G. Licitra ; S. Sieberling ; S. Engelen ; P. Williams ; R. Ruiterkamp ; M. Diehl</i>	
ONLINE DISTRIBUTED MOTION PLANNING FOR MULTI-VEHICLE SYSTEMS	1580
<i>Ruben Van Parys ; Goele Pipeleers</i>	
REAL-TIME MOTION PLANNING IN THE PRESENCE OF MOVING OBSTACLES	1586
<i>Tim Mercy ; Wannan Van Loock ; Goele Pipeleers</i>	
COMPARISON OF OPTIMIZATION-BASED STRATEGIES FOR CONSTRAINED CONTROL OF AUTO-STEERING SYSTEMS	1592
<i>Iris Ballesteros-Tolosana ; Sorin Oлару ; Pedro Rodríguez-Ayerbe ; Guillermo Pita-Gil ; Renaud Deborne</i>	
A NONINTERIOR CONTINUATION METHOD FOR CONSTRAINED OPTIMAL CONTROL PROBLEMS	1598
<i>Brian C. Fabien</i>	
A NEW GRADIENT BASED APPROACH FOR CONCURRENT OPTIMAL PLANT AND CONTROLLER DESIGN	1604
<i>Sikandar Moten ; Goele Pipeleers ; Jan Swevers</i>	
AN OPTIMAL SOLUTION TO FIXED TIME HORIZON MOVING TARGET TRACKING WITH OBSTACLE AVOIDANCE	1610
<i>Karmika Biswas ; Indrani Kar</i>	
ALLEVIATING TUNING SENSITIVITY IN APPROXIMATE DYNAMIC PROGRAMMING	1616
<i>Paul Beuchat ; Angelos Georghiou ; John Lygeros</i>	
CONSISTENTLY IMPROVING APPROXIMATIONS FOR CONSTRAINED CONTROLLABILITY AND REACHABILITY	1623
<i>Daniel Dueri ; Saša V. Raković ; Behçet Açıkmeşe</i>	

AN O (LOG N) PARALLEL ALGORITHM FOR NEWTON STEP COMPUTATIONS WITH APPLICATIONS TO MOVING HORIZON ESTIMATION	1630
<i>Isak Nielsen ; Daniel Axehill</i>	
NEW RESULTS ON WIENER TIME DELAY SYSTEM IDENTIFICATION	1637
<i>Asma Atitallah ; Salda Bedoui ; Kamel Abderrahim</i>	
SIMPLE DIRECT BLOCK-ORIENTED SYSTEM IDENTIFICATION FOR HYDRAULIC MOTION CONTROL	1643
<i>Philipp Polterauer ; Thomas Schwarzgruber ; Patrick Schrangl ; David Karlsböck ; Luigi del Re</i>	
REGULARIZED LEAST SQUARE SUPPORT VECTOR MACHINES FOR ORDER AND STRUCTURE SELECTION OF LPV-ARX MODELS	1649
<i>Manas Mejari ; Dario Piga ; Alberto Bemporad</i>	
FILTER INTERPRETATION OF REGULARIZED IMPULSE RESPONSE MODELING	1655
<i>Anna Marconato ; Maarten Schoukens ; Johan Schoukens</i>	
EXPERIMENT TIME MINIMISATION UNDER PARAMETER ACCURACY CONSTRAINTS AND TIME-DOMAIN SIGNAL AMPLITUDE BOUNDS	1661
<i>M. G. Potters ; X. Bombois ; Paul M. J. Van den Hof</i>	
OBSERVER-BASED RELAY FEEDBACK CONTROLLER DESIGN FOR LTI SYSTEMS	1667
<i>Zohra Kader ; Christophe Fiter ; Laurentiu Hetel ; Lotfi Belkoura</i>	
ANTI-SYNCHRONIZATION PROBLEM FOR COOPERATIVE-COMPETITIVE MULTI-LAYER NEURAL NETWORKS WITH TIME DELAYS AND UNKNOWN DYNAMICS	1673
<i>Yanzhi Wu ; Jiangping Hu ; Yiyi Zhao</i>	
A BILINEAR INPUT-OUTPUT MODEL WITH STATE-DEPENDENT DELAY FOR SEPARATED FLOW CONTROL	1679
<i>Maxime Feingesicht ; Cédric Raibaud ; Andrey Polyakov ; Franck Kerherve ; Jean-Pierre Richard</i>	
STABILITY ANALYSIS AND STATE-FEEDBACK CONTROL DESIGN FOR TIME-DELAY SYSTEMS	1685
<i>C. B. Cardeliqio ; M. Souza ; R. H. Korogui ; A. R. Fioravanti</i>	
ON DESIGN OF SAMPLED-DATA INTERVAL OBSERVERS	1691
<i>D. Efimov ; E. Fridman ; A. Polyakov ; W. Perruquetti ; J. -P. Richard</i>	
MIGRATION OF IMAGINARY ROOTS OF MULTIPLICITY THREE AND FOUR UNDER SMALL DEVIATION OF TWO DELAYS IN TIME-DELAY SYSTEMS	1697
<i>Dina Irofti ; Keqin Gu ; Islam Boussaada ; Silviu-Iulian Niculescu</i>	
INTERPLAY BETWEEN PERFORMANCE AND COMMUNICATION DELAY IN NOISY LINEAR CONSENSUS NETWORKS	1703
<i>Yaser Ghaedsharaf ; Milad Siami ; Christoforos Somarakis ; Nader Motee</i>	
GAIN CONSTRAINED ROBUST UKF FOR NONLINEAR SYSTEMS WITH PARAMETER UNCERTAINTIES	1709
<i>Shinji Ishihara ; Masaki Yamakita</i>	
ALWAYS CHOOSE SECOND BEST: TRACKING A MOVING TARGET ON A GRAPH WITH A NOISY BINARY SENSOR	1715
<i>Kevin Leahy ; Mac Schwager</i>	
NONLINEAR FILTERING WITH EXOGENOUS KALMAN FILTER AND DOUBLE KALMAN FILTER	1722
<i>Tor A. Johansen ; Thor I. Fossen</i>	
ACCURATE CONTINUOUS-DISCRETE EXTENDED KALMAN FILTERING FOR STIFF CONTINUOUS-TIME STOCHASTIC MODELS IN CHEMICAL ENGINEERING	1728
<i>Gennady Yu. Kulikov ; Maria V. Kulikova</i>	
STABILITY OF THE SDDRE BASED OBSERVER FOR DETERMINISTIC NONLINEAR SYSTEMS	1734
<i>Ilan Rusnak ; Itzhak Barkana</i>	
NEW IMPLEMENTATION OF HIGH-GAIN OBSERVERS IN THE PRESENCE OF MEASUREMENT NOISE USING STOCHASTIC APPROXIMATION	1740
<i>Joonho Lee ; Jongeun Choi ; Hassan K. Khalil</i>	
FLOW METER DATA VALIDATION AND RECONSTRUCTION USING NEURAL NETWORKS: APPLICATION TO THE BARCELONA WATER NETWORK	1746
<i>Hector Rodriguez ; Vicenç Puig ; Juan J. Flores ; Rodrigo Lopez</i>	
DECENTRALIZED FAULT DIAGNOSIS USING ANALYTICAL REDUNDANCY RELATIONS: APPLICATION TO A WATER DISTRIBUTION NETWORK	1752
<i>Vikas Gupta ; Vicenç Puig</i>	
LEAK LOCALIZATION IN WATER DISTRIBUTION NETWORKS USING MODEL-BASED BAYESIAN REASONING	1758
<i>Adrià Soldevila ; Rosa M. Fernandez-Canti ; Joaquim Blesa ; Sebastian Tornil-Sin ; Vicenç Puig</i>	
STABILITY OF DRINKING WATER DISTRIBUTION NETWORK	1764
<i>Tobias Leth ; Carsten Skovmose Kallésøe ; Christoffer Sloth ; Rafal Wisniewski</i>	
MPC CONTROL OF WATER SUPPLY NETWORKS	1770
<i>Kenneth Marx Hoe Baunsgaard ; Ole Ravn ; Carsten Skovmose Kallésøe ; Niels Kjølstad Poulsen</i>	
APPLICATION TO A LARGE-SCALE DRINKING WATER NETWORK OF ROBUST MPC FOR TRACKING PERIODIC REFERENCES	1776
<i>M. Pereira ; D. Muñoz de la Peña ; D. Limon ; I. Alvarado ; T. Alamo</i>	
ACTIVE POWER MANAGEMENT IN POWER DISTRIBUTION GRIDS: DISTURBANCE MODELING AND REJECTION	1782
<i>Rasmus Pedersen ; Christoffer Sloth ; Rafael Wisniewski</i>	

FUZZY SECONDARY CONTROLLER APPLIED TO AUTONOMOUS OPERATED AC MICROGRID	1788
<i>Eliau. J. Agnoletto ; Rodolpho V. A. Neves ; Renan F. Bastos ; Ricardo Q. Machado ; Vilma A. Oliveira</i>	
SYSTEMATIC MULTI-VARIABLE H_∞ CONTROL DESIGN FOR PRIMARY FREQUENCY REGULATION IN STAND-ALONE MICROGRIDS WITH HIGH PENETRATION OF RENEWABLE ENERGY SOURCES	1794
<i>Quang Linh Lam ; Antoneta Iuliana Bratcu ; Delphine Riu</i>	
GENERALIZED MODEL FOR LOAD FREQUENCY CONTROL STUDIES IN A DEREGULATED ENVIRONMENT	1800
<i>Evans E. Ejegi ; John A. Rossiter ; Paul Trodden</i>	
OPTIMAL REDISPATCH AND PRIMARY RESERVE ALLOCATION FOR POWER SYSTEMS WITH UNCERTAIN LOAD AND GENERATION	1806
<i>Ulrich Münz ; Amer Mesanovic</i>	
DISTRIBUTED POWER SUPPLY-DEMAND MANAGEMENT BASED ON NEGAWATT TRADING WITH ENERGY STORAGE SYSTEM	1812
<i>Yoshihiro Okawa ; Toru Namerikawa</i>	
APPROXIMATE FILTERING DISTRIBUTIONS FOR CHARACTERIZING INPUT-OUTPUT BEHAVIOR OF BIOCHEMICAL NETWORKS	1818
<i>C. Zechner ; M. Khammash</i>	
BIOMOLECULAR IMPLEMENTATION OF NONLINEAR SYSTEM THEORETIC OPERATORS	1824
<i>Mathias Foo ; Rucha Savlekar ; Jongmin Kim ; Declan G. Bates ; Guy-Bart Stan ; Vishwesh Kulkarni</i>	
AN N-STAGE CASCADE OF PHOSPHORYLATION CYCLES AS AN INSULATION DEVICE FOR SYNTHETIC BIOLOGICAL CIRCUITS	1832
<i>Rushina Shah ; Domitilla Del Vecchio</i>	
MULTI-SCALE DESIGN IN LAYERED SYNTHETIC BIOLOGICAL SYSTEMS	1838
<i>Thomas Prescott ; Antonis Papachristodoulou</i>	
ROBUST SYNCHRONIZATION OF GENETIC OSCILLATORS SUBJECTED TO CELL DIVISION AND COMMON ENTRAINMENT	1844
<i>Hafiz Ahmed ; Rosane Ushirobira ; Denis Efimov</i>	
SYNCHRONIZATION CONTROL OF INTERCONNECTED SYSTEMS WITH APPLICATIONS TO NEURONAL NETWORKS	1850
<i>Farhan Khan ; Luca Scardovi</i>	
MULTI-AGENT MOTION PLANNING AND COORDINATION IN POLYGONAL ENVIRONMENTS USING VECTOR FIELDS AND MODEL PREDICTIVE CONTROL	1856
<i>Rashmi Hegde ; Dimitra Panagou</i>	
RECONFIGURATION OF A VEHICLE FORMATION WITH RING COMMUNICATION STRUCTURE	1862
<i>S. Konduri ; P. R. Pagilla ; S. Darbha</i>	
DISTRIBUTED ALGORITHMS FOR MULTI-ROBOT INCIDENT RESPONSE VICTIM EXTRACTION	1868
<i>Maria Pia Fantì ; Agostino Marcello Mangini ; Giovanni Pedroncelli ; Edward Tunstel ; Walter Ukovich</i>	
ON A CLASS OF CONTROLLABLE SINGLE-LEADER MULTI-AGENT SYSTEMS	1874
<i>Shun-Pin Hsu</i>	
A DELAYED CONSENSUS ALGORITHM IN NETWORKS OF ANTICIPATORY AGENTS	1880
<i>Fatihcan M. Atay ; Dina Irofti</i>	
GENERALIZED LUENBERGER OBSERVERS FOR FAULT DETECTION IN SWITCHED SYSTEMS USING H-INDEX	1886
<i>Ahmad Farhat ; Damien Koenig</i>	
ROBUST QUADROTOR ACTUATOR FAULT DETECTION AND ISOLATION IN PRESENCE OF ENVIRONMENTAL DISTURBANCES	1892
<i>P. Castaldi ; N. Mimmo ; R. Naldi ; L. Marconi</i>	
FAULT DIAGNOSIS FOR AN AUTOMOTIVE SUSPENSION USING PARTICLE FILTERS	1898
<i>D. Hernández Alcantara ; R. Morales-Menendez ; L. Amezcua-Brooks</i>	
IDENTIFICATION OF UNBALANCE FAULTS IN ROTORS WITH UNKNOWN INPUT OBSERVERS USING CLASSICAL AND LMI BASED APPROACHES	1904
<i>Ramakrishnan Ambur ; Raja Sangili Vadamalu ; Stephan Rinderknecht</i>	
FAULT TOLERANT CONTROL OF WIND TURBINE USING LAGUERRE AND KAUTZ MPC FOR COMPENSATION	1909
<i>Mohamed Abdelmoula Benlahrache ; Sami Othman ; Nida Sheibat-Othman</i>	
TOWARDS A REDUCED VIRTUAL ACTUATOR: A GRAPH-THEORETIC APPROACH	1915
<i>Daniel Vey ; Jan Lunze</i>	
ON THE PREMATURE CONVERGENCE OF PARTICLE SWARM OPTIMIZATION	1922
<i>Rie B. Larsen ; Jerome Jouffroy ; Benny Lassen</i>	
SCENARIO BASED STOCHASTIC MPC SCHEMES FOR RIVERS WITH FEASIBILITY ASSURANCE	1928
<i>Hasan Arshad Nasir ; Simone Garatti ; Erik Weyer</i>	
A QUASI-NEWTON PREDICTION-CORRECTION METHOD FOR DECENTRALIZED DYNAMIC CONVEX OPTIMIZATION	1934
<i>Andrea Simonetto ; Alec Koppel ; Aryan Mokhtari ; Geert Leus ; Alejandro Ribeiro</i>	
A DISTRIBUTED APPROACH FOR THE OPTIMAL POWER FLOW PROBLEM	1940
<i>Sindri Magnússon ; Pradeep Chaturanga Weeraddana ; Carlo Fischione</i>	
SEQUENTIAL CONVEX RELAXATION FOR CONVEX OPTIMIZATION WITH BILINEAR MATRIX EQUALITIES	1946
<i>Reinier Doelman ; Michel Verhaegen</i>	

ACCELERATED ADMM BASED ON ACCELERATED DOUGLAS-RACHFORD SPLITTING	1952
<i>Ivan Pejic ; Colin N. Jones</i>	
FAST H₂-OPTIMAL MODEL ORDER REDUCTION EXPLOITING THE LOCAL NATURE OF KRYLOV-SUBSPACE METHODS	1958
<i>Alessandro Castagnotto ; Heiko K. F. Panzer ; Boris Lohmann</i>	
FAMILIES OF MOMENT MATCHING-BASED REDUCED ORDER MODELS FOR LINEAR DESCRIPTOR SYSTEMS	1964
<i>Philipp Schulze ; Tudor C. Ionescu ; Jacquelin M. A. Scherpen</i>	
GRAPH STRUCTURE-PRESERVING MODEL REDUCTION OF LINEAR NETWORK SYSTEMS	1970
<i>Xiaodong Cheng ; Yu Kawano ; Jacquelin M. A. Scherpen</i>	
BOUNDING TRUNCATION ERRORS OF A FLEXIBLE SLEWING BEAM USING DC GAIN FOR CONTROLLER DESIGN	1976
<i>Jun Imai ; Kaito Miyake ; Akiko Takahashi ; Shigeyuki Funabiki</i>	
FROM INFINITE DIMENSIONAL MODELLING TO PARAMETRIC REDUCED-ORDER APPROXIMATION: APPLICATION TO OPEN-CHANNEL FLOW FOR HYDROELECTRICITY	1982
<i>Violaine Dalmas ; Gérard Robert ; Charles Poussot-Vassal ; Igor Pontes Duff ; Cédric Seren</i>	
A SIMPLE CONTROLLER WITH A REDUCED ORDER INTERNAL MODEL IN THE FREQUENCY DOMAIN	1988
<i>Petteri Laakkonen ; Lassi Paunonen</i>	
EXPERIMENTAL COMPARISON OF LQG/LTR AND H_∞ ROBUST CONTROL APPROACHES IN 2D PIEZOACTUATION	1993
<i>Lukasz Ryba ; Alina Voda ; Gildas Besançon</i>	
H_∞ STATIC OUTPUT FEEDBACK SYNTHESIS UNDER AN INTEGRAL QUADRATIC CONSTRAINT WITH APPLICATION TO HIGH CAPACITY TRANSPORT VEHICLES	1999
<i>Maliheh Sadeghi Kati ; Hakan Köroğlu ; Jonas Fredriksson</i>	
AN LTI CONTROL TOOLBOX — SIMPLIFYING OPTIMAL FEEDBACK CONTROLLER DESIGN	2005
<i>Maarten Verbandt ; Jan Swevers ; Goele Pipeleers</i>	
A NEW LMI BASED H_∞ OBSERVER DESIGN METHOD FOR LIPSCHITZ NONLINEAR SYSTEMS	2011
<i>A. Zemouche ; R. Rajamani ; H. Trinh ; M. Zasadzinski</i>	
H_∞ OBSERVER-BASED STABILIZATION FOR LIPSCHITZ NONLINEAR SYSTEMS	2017
<i>A. Zemouchek ; M. Zerrougui ; B. Boulkroune ; F. Bedouhene ; H. Souley-Ali ; M. Zasadzinski</i>	
S-VARIABLE APPROACH TO ROBUST STABILIZATION STATE FEEDBACK SYNTHESIS FOR SYSTEMS CHARACTERIZED BY RANDOM POLYTOPES	2023
<i>Yohei Hosoe ; Dimitri Peaucelle</i>	
RANDOM POLYTOPE REPRESENTATION OF DISCRETE-TIME UNCERTAIN STOCHASTIC SWITCHED SYSTEMS AND ROBUST STABILIZATION	2029
<i>Yohei Hosoe ; Yuji Nagira ; Tomomichi Hagiwara</i>	
EXPONENTIAL STABILIZATION OF LANGUAGE CONSTRAINED DISCRETE-TIME SWITCHED LINEAR SYSTEMS: A GEOMETRICAL APPROACH	2035
<i>Mirko Fiacchini ; Marc Jungers ; Antoine Girard</i>	
PROBABILISTIC CONTROL OF SWITCHED LINEAR SYSTEMS WITH CHANCE CONSTRAINTS	2041
<i>Leonhard Asselborn ; Olaf Stursberg</i>	
PRACTICAL STABILITY OF DISCRETE-TIME SWITCHED AFFINE SYSTEMS	2048
<i>Grace S. Deaecto ; Lucas N. Egidio</i>	
SWITCHING CONTROL FOR INCREMENTAL STABILIZATION OF NONLINEAR SYSTEMS VIA CONTRACTION THEORY	2054
<i>Mario di Bernardo ; Davide Fiore</i>	
DYNAMIC COMPENSATION OF MARKOV JUMP LINEAR SYSTEMS WITHOUT MODE OBSERVATION	2060
<i>Maxim Dolgov ; Christof Chlebek ; Uwe D. Hanebeck</i>	
ANALYSIS OF OPTIMAL ENERGY MANAGEMENT IN SMART HOMES USING MPC	2066
<i>Christofer Sundström ; Daniel Jung ; Anders Blom</i>	
QUANTIFYING THE ROBUSTNESS OF POWER NETWORKS AGAINST INITIAL FAILURE	2072
<i>Yifu Zhang ; Jorge Cortes</i>	
BAYESIAN OPTIMIZATION FOR MAXIMUM POWER POINT TRACKING IN PHOTOVOLTAIC POWER PLANTS	2078
<i>Hany Abdelrahman ; Felix Berkenkamp ; Jan Poland ; Andreas Krause</i>	
A STOCHASTIC CONTINUOUS TIME MODEL FOR MICROGRID ENERGY MANAGEMENT	2084
<i>Benjamin Heymann ; J. Frédéric Bonnans ; Francisco Silva ; Guillermo Jimenez</i>	
PARAMETER IDENTIFICATION, FAULT DETECTION AND LOCALIZATION FOR AN ELECTRICAL TRANSMISSION LINE	2090
<i>Nicole Gehring ; Christian Stauch ; Joachim Rudolph</i>	
REDUCED MODEL FOR CONTROL IN A HYDROELECTRIC UNIT AT OFF-DESIGN OPERATION	2096
<i>Simon Gerwig ; Bilal Sari ; Federica Garin ; Carlos Canudas-de-Wit</i>	
MODEL-FREE IMMUNE THERAPY: A CONTROL APPROACH TO ACUTE INFLAMMATION	2102
<i>Ouassim Bara ; Michel Fliess ; Cédric Join ; Judy Day ; Seddik M. Djouadi</i>	
NONLINEAR OBJECT-ORIENTED MODELING BASED OPTIMAL CONTROL OF THE HEART: PERFORMING PRECISE PRELOAD MANIPULATION MANEUVERS USING A VENTRICULAR ASSIST DEVICE	2108
<i>Jonas Gesenhues ; Marc Hein ; Moriz Habigt ; Mare Mechelinck ; Thivaharan Albin ; Dirk Abel</i>	

AN ENSEMBLE NONLINEAR MODEL PREDICTIVE CONTROL ALGORITHM IN AN ARTIFICIAL PANCREAS FOR PEOPLE WITH TYPE 1 DIABETES	2115
<i>Dimitri Boironux ; Morten Hagdrup ; Zeinab Mahmoudi ; Kjolstad Poulsen ; Henrik Madsen ; John Bagterp Jørgensen</i>	
DYNAMIC OUTPUT-FEEDBACK CONTROLLER DESIGN FOR ANALGESIA GUIDED BY THE PUPIL SIZE VARIATION	2121
<i>Said Zabi ; Isabelle Queinnec ; Sophie Tarbouriech ; Michel Mazerolles</i>	
ROBOTICALLY ASSISTED INJECTION OF ORTHOPEDIC CEMENT: SYSTEM DESIGN, CONTROL AND MODELING	2127
<i>N. Lepoutre ; R. Aleluia Porto ; L. Meylheuc ; G. I. Bara ; F. Schmitt ; L. Barbé ; B. Bayle</i>	
DOMAIN OF ATTRACTION ESTIMATION OF CANCER CHEMOTHERAPY MODEL AFFECTED BY STATE PROPORTIONAL UNCERTAINTY	2133
<i>Rachid Riah ; Mirko Fiacchini ; Mazen Alamir</i>	
HUMAN-IN-THE-LOOP CONTROL OF MULTI-AGENT AERIAL SYSTEMS	2139
<i>M. Orsag ; T. Haus ; D. Tolić ; A. Ivanovic ; M. Car ; I. Palunko ; S. Bogdan</i>	
IMPLEMENTATION OF DISTRIBUTED CONSENSUS ON AN OUTDOOR TESTBED	2146
<i>Apurva Joshi ; Narendra Limbu ; Indrajit Ahuja ; Ameer K. Mulla ; Hoam Chung ; Debraj Chakraborty</i>	
REAL-TIME COLLISION AVOIDANCE CONTROL OF QUADROTOR USING ELLIPSOID AS A BOUNDING BOX	2152
<i>Jongho Park ; Youdan Kim</i>	
MODELLING AND IDENTIFICATION OF A COAXIAL BIROTOR UAV FROM SCARCE FLIGHT DATA	2158
<i>Emmanuel Roussel ; Vincent Gassmann ; Edouard Laroche</i>	
MODEL PREDICTIVE CONTROL OF A TILT-ROTOR UAV FOR LOAD TRANSPORTATION	2165
<i>Richard Andrade ; Guilherme V. Raffo ; Julio E. Normey-Rico</i>	
AN UNKNOWN INPUT OBSERVER BASED CONTROL ALLOCATION SCHEME FOR ICING DIAGNOSIS AND ACCOMMODATION IN OVERACTUATED UAVS	2171
<i>Andrea Cristofaro ; Tor Arne Johansen</i>	
ESTIMATING THE LEFT BOUNDARY CONDITION OF COUPLED 1-D LINEAR HYPERBOLIC PDES FROM RIGHT BOUNDARY SENSING	2179
<i>Henrik Anfinsen ; Florent Di Meglio ; Ole Morten Aamo</i>	
OBSERVER FOR HEAT EQUATION WITH STATE-DEPENDENT SWITCHED PARAMETERS	2185
<i>Jan Bendtsen ; John Leth</i>	
ON THE DIFFERENCES OF VARIABLE TYPE AND VARIABLE FRACTIONAL ORDER	2191
<i>Dominik Sierociuk ; Wiktor Malesza</i>	
TRACKING CONTROL FOR A CLASS OF ROTATIONALLY INVARIANT EVOLUTION PDES	2197
<i>Andrea Cristofaro</i>	
ROBUST REGULATION FOR FIRST-ORDER PORT-HAMILTONIAN SYSTEMS	2203
<i>Jukka-Pekka Humaloja ; Lassi Paunonen ; Seppo Pohjolainen</i>	
THE STRUCTURE OF ROBUST CONTROLLERS FOR DISTRIBUTED PARAMETER SYSTEMS	2209
<i>Timo Hämäläinen ; Seppo Pohjolainen</i>	
QUATERNION BASED ATTITUDE CONTROL AND SUBOPTIMAL RENDEZVOUS GUIDANCE ON SATELLITE PROXIMITY OPERATION	2215
<i>Gun-Hee Moon ; Byung-Yoon Lee ; Min-Jea Tahk ; David Hyunchul Shim</i>	
SEMI-ANALYTICAL MINIMUM TIME SOLUTIONS FOR A VEHICLE FOLLOWING CLOTHOID-BASED TRAJECTORY SUBJECT TO VELOCITY CONSTRAINTS	2221
<i>Marco Frego ; Enrico Bertolazzi ; Francesco Biral ; Daniele Fontanelli ; Luigi Palopoli</i>	
TIME-OPTIMAL PATH-FOLLOWING OPERATION IN THE PRESENCE OF UNCERTAINTY	2228
<i>Predrag Milosavljevic ; Timm Faulwasser ; Alejandro Marchetti ; Dominique Bonvin</i>	
TRAVEL TIME FORECASTING FROM CLUSTERED TIME SERIES VIA OPTIMAL FUSION STRATEGY	2234
<i>Andres Ladino ; Alain Kibangou ; Hassen Fourati ; Carlos Canudas de Wit</i>	
WAYPOINT PLANNING WITH DUBINS CURVES USING GENETIC ALGORITHMS	2240
<i>Karl D. Hansen ; Anders La Cour-Harbo</i>	
TRAJECTORY OPTIMIZATION AND CONTROL ALGORITHM OF LONGITUDINAL PERCH LANDING ASSISTED BY THRUSTER	2247
<i>Min-Jea Tahk ; Seungyeop Han ; Byung-Yoon Lee ; Jaemyung Ahn</i>	
ON KLEIN-GORDON-SCHRÖDINGER CONTROL SYSTEM	2253
<i>Quan-Fang Wang</i>	
DESIGNING OPTIMAL WATERMARK SIGNAL FOR A STEALTHY ATTACKER	2258
<i>Maryam Hosseini ; Takashi Tanaka ; Vijay Gupta</i>	
PARETO SUBOPTIMAL SOLUTIONS IN CONTROL AND FILTERING PROBLEMS UNDER MULTIPLE DETERMINISTIC AND STOCHASTIC DISTURBANCES	2263
<i>Dmitry V. Balandin ; Mark M. Kogan</i>	
FAULT PROGNOSIS BASED ON PHYSICAL AND STOCHASTIC MODELS	2269
<i>Mohand Djeziri ; Thi-Bich-Lien Nguyen ; Samir Benmoussa ; Nacer M'Sirdi</i>	
STABILITY OF GAUSSIAN PROCESS STATE SPACE MODELS	2275
<i>Thomas Beckers ; Sandra Hirche</i>	
STABLE STOCHASTIC PREDICTIVE CONTROLLER UNDER UNRELIABLE UP-LINK	2282
<i>Prabhat K. Mishra ; Debasish Chatterjee ; Daniel E. Quevedo</i>	
ROBUSTNESS OF UNCERTAIN DISCRETE LINEAR REPETITIVE PROCESSES WITH H_∞ DISTURBANCE ATTENUATION	2288
<i>Pawel Dabkowski ; Krzysztof Galkowski ; Eric Rogers ; Michael Sebek</i>	

ON THE DYNAMIC-OUTPUT FEEDBACK CONTROL OF UNCERTAIN FRACTIONAL-ORDER LINEAR SYSTEMS.....	2294
<i>Salim Ibrir</i>	
ROBUST MODEL PREDICTIVE CONTROLLER FOR TRACKING PERIODIC SIGNALS.....	2300
<i>M. Pereira ; D. Muñoz de la Peña ; D. Limon ; I. Alvarado ; T. Alamo</i>	
ROBUSTIFICATION OF THE MODULAR TRACKING CONTROLLER FOR THE N-TRAILERS BY EMPLOYING A DISTURBANCE OBSERVATION-COMPENSATION LOOP.....	2306
<i>Maciej Marcin Michalek</i>	
ROBUST ATTITUDE CONTROL FOR UNCERTAIN QUADROTORS WITH INPUT TIME DELAYS.....	2312
<i>Hao Liu ; Deyuan Liu ; Zongyu Zuo</i>	
ROBUST PERFORMANCE ITERATIVE LEARNING CONTROL : ANALYSIS, SYNTHESIS AND EXPERIMENTAL VALIDATION.....	2316
<i>Tong Duy Son ; Armin Steinhauser ; Goele Pipeleers ; Jan Swevers</i>	
ROBUST CONTROL OF AUTOMATED MANUFACTURING SYSTEMS WITH FLEXIBILITY EMBEDDED SYNCHRONIZATIONS USING PETRI NETS.....	2322
<i>Nan Du ; Hesuan Hu</i>	
STRUCTURE INDEPENDENCE OF SUPERVISOR SIMPLIFICATION IN AUTOMATED MANUFACTURING SYSTEMS USING PETRI NETS.....	2329
<i>Chen Chen ; Hesuan Hu</i>	
CRITICAL STAGES AND THEIR APPLICATION IN LARGE SCALE AUTOMATED MANUFACTURING SYSTEMS VIA PETRI NETS.....	2337
<i>HeSuan Hu ; Yan Yang ; Yang Liu ; Nan Du</i>	
DISTRIBUTED DEADLOCK AVOIDANCE IN AUTOMATED MANUFACTURING SYSTEMS WITH FORWARD CONFLICT FREE STRUCTURES USING PETRI NETS.....	2345
<i>Yan Yang ; HeSuan Hu</i>	
EVENT DRIVEN HYBRID BOND GRAPH FOR DIAGNOSIS.....	2353
<i>Ibrahim Abdallah ; Anne-Lise Gehin ; Belkacem Ould Bouamama</i>	
FAULT-TOLERANT CONTROL OF DETERMINISTIC I/O AUTOMATA USING ACTIVE DIAGNOSIS.....	2359
<i>Melanie Schuh ; Jan Lunze</i>	
DISTRIBUTED PREDICTIVE CONTROL APPROACH FOR FUEL EFFICIENT GEAR SHIFTING IN HYBRID ELECTRIC VEHICLES.....	2366
<i>Martina Joševski ; Dirk Abel</i>	
DYNAMIC MODELING OF MULTI-PHASE HYBRID STEPPER MOTORS.....	2374
<i>Roberto Zanasi ; Marco Fei</i>	
OPERATING POINT ESTIMATION IN HYDRAULIC TURBOMACHINES WITH NON-INVERTIBLE CHARACTERISTICS.....	2380
<i>Sebastian Leonow ; Martin Monnigmann</i>	
AN ANALYTICAL COMMUTATION LAW FOR PARASITIC FORCES AND TORQUES COMPENSATION IN CORELESS LINEAR MOTORS.....	2386
<i>Tuan T. Nguyen ; Hans Butler ; Mircea Lazar</i>	
NONLINEAR ADAPTIVE CONTROL FOR POSITION-SENSORLESS PERMANENT MAGNET SYNCHRONOUS MOTORS WITH UNCERTAINTIES.....	2392
<i>Cristiano Maria Verrelli ; Patrizio Tomei ; Emilio Lorenzani</i>	
SENSORLESS ADAPTIVE FIELD ORIENTED CONTROL OF BRUSHLESS MOTOR.....	2398
<i>Aurélien Cabarbaye ; Rogelio Lozano Leal ; Moiss Bonilla Estrada</i>	
PHASE SPACE IDENTIFICATION METHOD FOR MODELING THE VISCOSITY OF BONE CEMENT.....	2404
<i>N. Lepoutre ; G. I. Bara ; L. Meylheuc ; B. Bayle</i>	
OPTIMAL TRACKING OF VERSION AND VERGENCE EYE MOVEMENTS IN HUMAN BINOCULAR CONTROL.....	2410
<i>Justin Ruths ; Supratim Ghosh ; Bijoy K. Ghosh</i>	
A PHYSIOLOGICAL CONTROL STRATEGY FOR CONTINUOUS-FLOW LEFT VENTRICULAR ASSIST DEVICES: THE POWER RATIO CONTROLLER.....	2416
<i>Frank Schrodell ; Dominik Schindler ; Alejandro Claver ; Marc Hein ; Maike Ketelhut ; Dirk Abel</i>	
OBSERVER BASED FEEDBACK CONTROL OF A BIODYNAMICAL MODEL OF TUMOR GROWTH WITH SAMPLED MEASUREMENTS.....	2423
<i>Shahrzad Gholami ; Hassan Salarieh ; Aria Alasty</i>	
IDENTIFICATION OF HUMAN BODY DAILY TEMPERATURE DYNAMICS VIA MINIMUM STATE PREDICTION ERROR METHOD.....	2429
<i>Innokentiy Semushin ; Julia Tsyganova ; Maria Kulikova ; Andrey Tsyganov ; Andrey Peskov</i>	
BIHORMONAL GLUCOSE CONTROL USING A CONTINUOUS INSULIN PUMP AND A GLUCAGON-PEN.....	2435
<i>Matthias Reiter ; Florian Reiterer ; Luigi del Re</i>	
A TECHNIQUE FOR EFFICIENT MULTIMODAL TRANSPORT PLANNING WITH CONFLICTING OBJECTIVES UNDER UNCERTAINTY.....	2441
<i>Mariagrazia Dotoli ; Nicola Epicoco ; Marco Falagario</i>	
A MODEL FOR LANE-LESS TRAFFIC WITH LOCAL CONTROL LAWS.....	2447
<i>Rakesh Chavan ; Ameer K. Mulla ; Debraj Chakraborty ; D. Manjunath</i>	
ON THE EFFECTIVENESS OF THE EXTENDED COOPERATIVE ADAPTIVE CONTROL FOR VEHICLES PLATOONING.....	2453
<i>Umberto Montanaro ; Giovanni Fiengo ; Antonio Tufano ; Stefania Santini</i>	

ANALYSIS OF INTERACTIONS BETWEEN LOOK-AHEAD CONTROL AND TRAFFIC SPEED	2459
<i>Balázs Németh ; Péter Gáspár ; András Mihály</i>	
LATERAL CONTROL OF VEHICLE PLATOONS WITH ON-BOARD SENSING AND INTER-VEHICLE COMMUNICATION	2465
<i>Owen McAree ; Sandor M. Veres</i>	
MODELLING THE IMPACT OF CONTROL STRATEGY ON STOCHASTIC DELAY PROPAGATION IN TRANSPORTATION NETWORKS	2471
<i>Harshad Khadilkar</i>	
ON INFINITE TIME LINEAR-QUADRATIC GAUSSIAN CONTROL OF INHOMOGENEOUS SYSTEMS	2477
<i>Ekaterina Palamarchuk</i>	
EXACT PLANT INVERSION OF FLEXIBLE MOTION SYSTEMS WITH A TIME-VARYING STATE-TO-OUTPUT MAP	2483
<i>Yanin Kasemsinsup ; Marcel Heertjes ; Hans Butler ; Siep Weiland</i>	
OPTIMAL H_{∞} STATE FEEDBACK SAMPLED-DATA CONTROL APPLIED TO MARKOV JUMP LINEAR SYSTEMS	2489
<i>Gabriela W. Gabriel ; José C. Geromel ; Karolos M. Grigoriadis</i>	
DIGITAL REDESIGN OF ANALOG CONTROLLERS UNDER INTERMITTENT SAMPLING VIA THE YOULA PARAMETER	2495
<i>Leonid Mirkin</i>	
ON DETECTABILITY CONDITIONS IN SIGNAL SETS WITH APPLICATION TO SWITCHED SYSTEMS	2501
<i>Ti-Chung Lee ; Ying Tan ; Iven Mareeis</i>	
ROBUSTNESS OF HOMOGENEOUS SYSTEMS WITH RESPECT TO TIME-VARYING PERTURBATIONS	2509
<i>H. Riost ; D. Efimov ; A. Polyakov ; W. Perruquetti</i>	
KALMAN-INSPIRED DISTRIBUTED SET-MEMBERSHIP OBSERVERS	2515
<i>Ramon A. Garcia ; Luis Orihuela ; Pablo Millán ; Manuel G. Ortega ; Francisco R. Rubio</i>	
DISTRIBUTED ESTIMATION FOR FEEDBACK-LINEARIZABLE NONLINEAR SYSTEMS	2521
<i>Matteo Mekhail ; Stefano Battilotti</i>	
MULTI-ROBOT LOCALIZATION VIA GPS AND RELATIVE MEASUREMENTS IN THE PRESENCE OF ASYNCHRONOUS AND LOSSY COMMUNICATION	2527
<i>Marco Todescato ; Andrea Carron ; Ruggero Carli ; Antonio Franchi ; Luca Schenato</i>	
KALMAN FILTERING WITH SYNTHETIC MEASUREMENTS UNDER AN EVENT-TRIGGERED SENSOR SCHEDULER	2533
<i>Ye Sun ; Daniel B. Work</i>	
A PARSIMONIOUS APPROACH FOR ACTIVITY RECOGNITION WITH WEARABLE DEVICES: AN APPLICATION TO CROSS-COUNTRY SKIING	2541
<i>Angelo Cenedese ; Gian Antonio Susto ; Matteo Terzi</i>	
ROBUST TRILATERATION BASED INDOOR LOCALIZATION METHOD FOR OMNIDIRECTIONAL MOBILE ROBOTS	2547
<i>Lóriné Márton ; Csaba Nagy ; Zsolt Biró-Ambrus</i>	
APPROXIMATION OF STOCHASTIC NONLINEAR CLOSED-LOOP FEEDBACK CONTROL WITH APPLICATION TO MINIATURE WALKING ROBOTS	2553
<i>Christof Chlebek ; Uwe D. Hanebeck</i>	
CONSTRAINED OPTIMAL CONTROL OF STOCHASTIC SWITCHED AFFINE SYSTEMS USING RANDOMIZATION	2559
<i>Kostas Margellos ; Alessandro Falsone ; Simone Garatti ; Maria Prandini</i>	
DESIGN OF VARIABLE EXPONENTIAL FORGETTING FOR ESTIMATION OF THE STATISTICS OF THE NORMAL-WISHART DISTRIBUTION	2565
<i>Jakub Dokoupil ; Pavel Václavek</i>	
PERFORMANCE ANALYSIS AND CONTROLLER IMPROVEMENT FOR LINEAR SYSTEMS WITH (M, K)-FIRM DATA LOSSES	2571
<i>E. P. van Horssen ; A. R. Baghban Behrouzian ; D. Goswami ; D. Antunes ; T. Basten ; W. P. M. H. Heemels</i>	
DISCOUNTED MARKOV DECISION PROCESSES VIA TIME AGGREGATION	2578
<i>Edilson F. Arruda ; Marcelo D. Fragoso</i>	
ROBUST NONLINEAR CONTROL OF MINIATURE FIXED-WING UAVS	2584
<i>Flavio Callegati ; Roberto Naldi ; Marco Melega ; Lorenzo Marconi</i>	
ROBUST AND FAULT-TOLERANT CONTROL OF IN-WHEEL VEHICLES WITH CORNERING RESISTANCE MINIMIZATION	2590
<i>András Mihály ; Péter Gáspár</i>	
A ROBUST LINEAR CONTROL METHODOLOGY BASED ON FICTITIOUS FAILURE REJECTION	2596
<i>M. Bonilla ; L. A. Blas ; S. Salazar ; J. C. Martinez ; M. Malabre</i>	
PERIODIC REFERENCE TRACKING FOR NONLINEAR SYSTEMS VIA MODEL PREDICTIVE CONTROL	2602
<i>Emre Aydinler ; Matthias A. Müller ; Frank Allgöwer</i>	
GENERALIZED KALMAN-YAKUBOVICH-POPOV LEMMA BASED STABILITY CONDITIONS FOR 2D LINEAR SYSTEMS	2608
<i>Wojciech Paszke ; Eric Rogers ; Krzysztof Galkowski</i>	
RECEDING HORIZON ROBOT CONTROL IN PARTIALLY UNKNOWN ENVIRONMENTS WITH TEMPORAL LOGIC CONSTRAINTS	2614
<i>Vladislav Nenchev ; Calin Belta</i>	

BINARY SEARCH ALGORITHM FOR MIXED INTEGER OPTIMIZATION: APPLICATION TO ENERGY MANAGEMENT IN A MICROGRID	2620
<i>Paulo R. C. Mendes ; José M. Maestre ; Carlos Bordons ; Julio E. Normey-Rico</i>	
A REAL-TIME IDENTIFICATION ALGORITHM FOR SWITCHED LINEAR SYSTEMS WITH BOUNDED NOISE	2626
<i>Abdelhak Goudjil ; Mathieu Poulliquen ; Eric Pigeon ; Olivier Gehan</i>	
IDENTIFICATION OF HYBRID AND LINEAR PARAMETER VARYING MODELS VIA RECURSIVE PIECEWISE AFFINE REGRESSION AND DISCRIMINATION	2632
<i>Valentina Breschi ; Alberto Bemporad ; Dario Piga</i>	
MULTI-TIME-SCALE SYSTEMS CONTROL VIA USE OF COMBINED CONTROLLERS	2638
<i>Kliti Kodra ; Ningfan Zhong ; Zoran Gajić</i>	
GLOBAL RESULTS ON RESET-INDUCED PERIODIC TRAJECTORIES OF PLANAR SYSTEMS	2644
<i>Andrea Bisoffi ; Fulvio Forni ; Mauro Da Lio ; Luca Zaccarian</i>	
Author Index	