

# **2020 59th IEEE Conference on Decision and Control (CDC 2020)**

**Jeju Island, South Korea  
14-18 December 2020**

**Pages 1-684**



**IEEE Catalog Number: CFP20CDC-POD  
ISBN: 978-1-7281-7448-8**

**Copyright © 2020 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:	CFP20CDC-POD
ISBN (Print-On-Demand):	978-1-7281-7448-8
ISBN (Online):	978-1-7281-7447-1
ISSN:	0743-1546

**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](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

CURRAN ASSOCIATES INC.  
**proceedings**  
.com

# TABLE OF CONTENTS

<b>MODEL REDUCTION BY MOMENT MATCHING: BEYOND LINEARITY A REVIEW OF THE LAST 10 YEARS</b> .....	1
<i>Alessandro Astolfi; Giordano Scarciotti; Joel Simard; Nicolás Faedo; John V. Ringwood</i>	
<b>NONLINEAR DYNAMICAL ANALYSIS FOR AN ETHANOL STEAM REFORMER: A SINGULAR DISTRIBUTED PARAMETER SYSTEM</b> .....	23
<i>Pedro Reyer-Santiago; Carlos Ocampo-Martinez; Richard D. Braatz</i>	
<b>COMPARISON OF CENTRALIZED AND DECENTRALIZED APPROACHES IN COOPERATIVE COVERAGE PROBLEMS WITH ENERGY-CONSTRAINED AGENTS</b> .....	30
<i>Xiangyu Meng; Xinmiao Sun; Christos G. Cassandras; Kaiyuan Xu</i>	
<b>PROBABILISTIC MODELING OF THERMAL GRIDS USING GAUSSIAN PROCESSES</b> .....	36
<i>Johan Simonson; Khalid Tourkey Atta; Wolfgang Birk</i>	
<b>A VIRTUAL BATTERY MODEL FOR PACKETIZED ENERGY MANAGEMENT</b> .....	42
<i>Luis A. Duffaut Espinosa; Adil Khurram; Mads R. Almassalkhi</i>	
<b>MODELING AND OPTIMAL CONTROL OF A HYDROGEN STORAGE SYSTEM FOR WIND FARM OUTPUT POWER SMOOTHING</b> .....	49
<i>Muhammad Bakr Abdelghany; Muhammad Faisal Shehzad; Davide Liuzza; Valerio Mariani; Luigi Glielmo</i>	
<b>OPERATIONAL VALUATION OF ENERGY STORAGE UNDER MULTI-STAGE PRICE UNCERTAINTIES</b> .....	55
<i>Bolun Xu; Magnus Korpås; Audun Botterud</i>	
<b>NUMERICAL METHOD FOR ERGODIC OPTIMAL CONTROL PROBLEMS OF SWITCHING STOCHASTIC DIFFERENTIAL EQUATIONS WITH REFLECTION</b> .....	61
<i>Saul C. Leite; Marcelo D. Fragoso</i>	
<b>MAXIMALLY PERMISSIVE NONBLOCKING SIMILARITY CONTROL OF NONDETERMINISTIC DISCRETE EVENT SYSTEMS</b> .....	73
<i>Jinglun Li; Shigemasa Takai</i>	
<b>BOUNDED CONSISTENCY OF P-TIME EVENT GRAPHS</b> .....	79
<i>Davide Zorzenon; Jan Komenda; Jörg Raisch</i>	
<b>EVENT-DRIVEN RECEDING HORIZON CONTROL FOR DISTRIBUTED PERSISTENT MONITORING ON GRAPHS</b> .....	92
<i>Shirantha Welikala; Christos G. Cassandras</i>	
<b>EVENT-TRIGGERED DYNAMIC OUTPUT FEEDBACK CONTROL FOR DISCRETE-TIME POLYTOPIC LINEAR PARAMETER-VARYING SYSTEMS</b> .....	98
<i>Hamideh Saadabadi; Herbert Werner</i>	
<b>A NEW PRODUCT CONSTRUCTION FOR THE DIAGNOSABILITY OF PATTERNS IN TIME PETRI NET</b> .....	104
<i>Éric Lubat; Silvano Dal Zilio; Didier Le Botlan; Yannick Pencolé; Audine Subias</i>	
<b>MODEL REDUCTION OF LINEAR HYBRID SYSTEMS</b> .....	110
<i>Ion Victor Gosea; Mihaly Petreczky; John Leth; Rafael Wisniewski; Athanasios C. Antoulas</i>	
<b>ADAPTIVE CONTROL FOR LINEARIZABLE SYSTEMS USING ON-POLICY REINFORCEMENT LEARNING</b> .....	118
<i>Tyler Westenbroek; Eric Mazumdar; David Fridovich-Keil; Valmik Prabhu; Claire J. Tomlin; S. Shankar Sastry</i>	
<b>AN ADAPTIVE CONTROLLER FOR A CLASS OF NONLINEAR PLANTS BASED ON NEURAL NETWORKS AND CONVEX PARAMETERIZATION</b> .....	126
<i>A. Patkar; A. M. Annaswamy</i>	
<b>OPTIMAL ADAPTIVE REGULATION OF UNCERTAIN LINEAR CONTINUOUS-TIME SYSTEMS WITH STATE AND INPUT DELAYS</b> .....	132
<i>Rohollah Moghadam; S. Jagannathan</i>	
<b>NASH EQUILIBRIUM SEEKING WITH ARBITRARILY DELAYED PLAYER ACTIONS</b> .....	150
<i>Tiago Roux Oliveira; Victor Hugo Pereira Rodrigues; Miroslav Krstic; Tamer Basar</i>	
<b>ADAPTIVE BOUNDARY CONTROL OF REACTION-DIFFUSION PDES WITH UNKNOWN INPUT DELAY</b> .....	156
<i>Shanshan Wang; Jie Qi; Mamadou Diagne</i>	
<b>MODEL-BASED REINFORCEMENT LEARNING FOR OPTIMAL FEEDBACK CONTROL OF SWITCHED SYSTEMS</b> .....	162
<i>Max L. Greene; Moad Abudia; Rushikesh Kamalapurkar; Warren E. Dixon</i>	
<b>CO-REGULATED INFORMATION CONSENSUS WITH DELAYS FOR MULTI-AGENT UAS</b> .....	180
<i>Chandima Fernando; Carrick Detweiler; Justin Bradley</i>	
<b>TARGET SEARCH AND TRACKING USING A FLEET OF UAVS IN PRESENCE OF DECOYS AND OBSTACLES</b> .....	188
<i>Julius Ibenthal; Luc Meyer; Hélène Piet-Lahanier; Michel Kieffer</i>	
<b>GEOMETRIC CONTROL AND EXPERIMENTAL VALIDATION FOR A QUADROTOR UAV TRANSPORTING A PAYLOAD</b> .....	201
<i>Beomyeol Yu; Kanishke Gamage; Seungkeun Kim; Taeyoung Lee; Jinyoung Suk</i>	
<b>BEYOND REYNOLDS: A CONSTRAINT-DRIVEN APPROACH TO CLUSTER FLOCKING</b> .....	208
<i>Logan E. Beaver; Andreas A. Malikopoulos</i>	

<b>A SAFETY CONSTRAINED CONTROL FRAMEWORK FOR UAVS IN GPS DENIED ENVIRONMENT</b> .....	214
<i>Wenbin Wan; Hunmin Kim; Naira Hovakimyan; Lui Sha; Petros G. Voulgaris</i>	
<b>IMPACT OF DISTURBANCES ON MIXED TRAFFIC CONTROL WITH AUTONOMOUS VEHICLES</b> .....	220
<i>Ross Drummond; Yang Zheng</i>	
<b>LEADING CRUISE CONTROL IN MIXED TRAFFIC FLOW</b> .....	226
<i>Jiawei Wang; Yang Zheng; Chaoyi Chen; Qing Xu; Keqiang Li</i>	
<b>DYNAMIC TRAFFIC RECONSTRUCTION USING PROBE VEHICLES</b> .....	233
<i>Matthieu Barreau; Anton Selivanov; Karl Henrik Johansson</i>	
<b>OPEN AND CLOSED LOOP TRAFFIC CONTROL BY CONNECTED AUTOMATED VEHICLES</b> .....	239
<i>Tamás G. Molnár; Devesh Upadhyay; Michael Hopka; Michiel Van Nieuwstadt; Gábor Orosz</i>	
<b>ECOLOGICAL VELOCITY PLANNING THROUGH SIGNALIZED INTERSECTIONS: A DEEP REINFORCEMENT LEARNING APPROACH</b> .....	245
<i>Andrea Pozzi; Sangjae Bae; Yongkeun Choi; Francesco Borrelli; Davide M. Raimondo; Scott Moura</i>	
<b>ROUTING APPS MAY CAUSE OSCILLATORY CONGESTIONS IN TRAFFIC NETWORKS</b> .....	253
<i>Gianluca Bianchin; Fabio Pasqualetti</i>	
<b>PATH INTEGRAL CONTROL FOR STOCHASTIC DYNAMIC TRAFFIC ROUTING PROBLEMS</b> .....	261
<i>Michael Hibbard; Yasuaki Wasa; Takashi Tanaka</i>	
<b>THE IMPACT OF AUTONOMOUS VEHICLES' HEADWAY ON THE SOCIAL DELAY OF TRAFFIC NETWORKS</b> .....	268
<i>Ruolin Li; Negar Mehr; Roberto Horowitz</i>	
<b>LEARNING AR FACTOR MODELS</b> .....	274
<i>Francesca Crescente; Lucia Falconi; Federica Rozzi; Augusto Ferrante; Mattia Zorzi</i>	
<b>IMAGE COMPRESSION BY MEANS OF THE MULTIDIMENSIONAL CIRCULANT COVARIANCE EXTENSION PROBLEM – REVISITED</b> .....	280
<i>Tommaso Benciolini; Tommaso Grigoletto; Mattia Zorzi</i>	
<b>ON THE PREESTIMATION TECHNIQUE AND ITS APPLICATION TO IDENTIFICATION OF NONSTATIONARY SYSTEMS</b> .....	286
<i>Maciej Niedzwiecki; Artur Gancza; Marcin Ciolek</i>	
<b>A STATE AND OUTPUT SENSITIVITY CONTROLLABILITY APPROACH FOR STRUCTURAL IDENTIFIABILITY OF LINEAR STATE SPACE MODELS</b> .....	294
<i>Carlos Méndez-Blanco; Leyla Özkan</i>	
<b>ON THE INFLUENCE OF ILL-CONDITIONED REGRESSION MATRIX ON HYPER-PARAMETER ESTIMATORS FOR KERNEL-BASED REGULARIZATION METHODS</b> .....	300
<i>Yue Ju; Tianshi Chen; Biqiang Mu; Lennart Ljung</i>	
<b>TOWARDS FINITE SAMPLE NETWORKED SYSTEM IDENTIFICATION: A CASCADE NETWORK EXAMPLE</b> .....	306
<i>Masoud Moravej Khorasani; Erik Weyer</i>	
<b>REGULARIZED ESTIMATION WITH VARIABLE EXPONENTIAL FORGETTING</b> .....	312
<i>Jakub Dokoupil; Pavel Václavek</i>	
<b>DISTRIBUTED OPTIMIZATION FOR WEIGHTED VERTEX COVER VIA HEURISTIC GAME THEORETIC LEARNING</b> .....	325
<i>Changhao Sun; Xiaochu Wang; Huaxin Qiu; Qian Chen; Qingrui Zhou</i>	
<b>ASYMMETRIC INFORMATION ACQUISITION GAMES</b> .....	331
<i>Vartika Singh; Veeraruna Kavitha</i>	
<b>DECENTRALIZED FICTITIOUS PLAY WITH VOLUNTARY COMMUNICATION IN RANDOM COMMUNICATION NETWORKS</b> .....	337
<i>Sarper Aydın; Ceyhan Eksin</i>	
<b>A SCALAR LINEAR-QUADRATIC TWO PLAYER STOCHASTIC DIFFERENTIAL GAME WITH A ROSENBLATT PROCESS NOISE</b> .....	343
<i>Tyrone E. Duncan; Bozenna Pasik-Duncan</i>	
<b>MODEL-FREE REINFORCEMENT LEARNING FOR STOCHASTIC STACKELBERG SECURITY GAMES</b> .....	348
<i>Rajesh K. Mishra; Deepanshu Vasal; Sriram Vishwanath</i>	
<b>INFORMATION EXTRACTION FROM A STRATEGIC SENDER OVER A NOISY CHANNEL</b> .....	354
<i>Anuj S. Vora; Ankur A. Kulkarni</i>	
<b>CONVERGENCE RATE OF A PENALTY METHOD FOR STRONGLY CONVEX PROBLEMS WITH LINEAR CONSTRAINTS</b> .....	372
<i>Angelia Nedic; Tatiana Tatarenko</i>	
<b>CONSTRAINED DISTRIBUTED NONCONVEX OPTIMIZATION OVER TIME-VARYING DIRECTED GRAPHS</b> .....	378
<i>Zhiyu He; Jianping He; Cailian Chen; Xiping Guan</i>	
<b>A TWO-STEP PRE-PROCESSING FOR SEMIDEFINITE PROGRAMMING</b> .....	384
<i>Vyacheslav Kungurtsev; Jakub Marecek</i>	
<b>TO BEAM OR NOT TO BEAM? BEAMFORMING WITH SUBMODULARITY-INSPIRED GROUP SPARSITY</b> .....	390
<i>Tzanis Anevlavis; Jonathan Bunton; Anjaly Parayil; Jemin George; Paulo Tabuada</i>	
<b>SPARSE LEARNING WITH CONCAVE REGULARIZATION: RELAXATION OF THE IRREPRESENTABLE CONDITION</b> .....	396
<i>V. Cerone; S. M. Fossion; D. Regruto; A. Salam</i>	
<b>LASSO FORMULATION OF THE SHORTEST PATH PROBLEM</b> .....	402
<i>Anqi Dong; Amirhossein Taghvaei; Tryphon T. Georgiou</i>	

<b>IMPLICIT OPTIMIZATION: MODELS AND METHODS</b> .....	408
<i>Bertrand Travacca; Laurent El Ghaoui; Scott Moura</i>	
<b>NONCONVEX OPTIMIZATION ON DATA MANIFOLD BY ACCELERATED CURVATURE TRANSPORT</b> .....	416
<i>E. Jonckheere; H. Krovi; A. A. Rompokos</i>	
<b>UPPER BOUNDS AND COST EVALUATION IN DYNAMIC TWO-PLAYER ZERO-SUM GAMES</b> .....	424
<i>Santiago J. Leudo; Francesco Ferrante; Ricardo G. Sanfelice</i>	
<b>APPROXIMATELY OPTIMAL CONTROLLERS FOR QUANTITATIVE TWO-PHASE REACH-AVOID PROBLEMS ON NONLINEAR SYSTEMS</b> .....	430
<i>Alexander Weber; Alexander Knoll</i>	
<b>AN INTEGRAL PENALTY-BARRIER DIRECT TRANSCRIPTION METHOD FOR OPTIMAL CONTROL</b> .....	456
<i>Martin P. Neuenhofen; Eric C. Kerrigan</i>	
<b>MEAN-FIELD OPTIMAL CONTROL OF CONTINUITY EQUATIONS AND DIFFERENTIAL INCLUSIONS</b> .....	470
<i>Benoît Bonnet; H��l��ne Frankowska</i>	
<b>COMPOSITIONAL CONSTRUCTION OF ABSTRACTIONS FOR INFINITE NETWORKS OF SWITCHED SYSTEMS</b> .....	476
<i>Maryam Sharifi; Abdalla Swikir; Navid Noroozi; Majid Zamani</i>	
<b>STRONG INTEGRAL INPUT-TO-STATE STABILITY OF NONLINEAR NETWORKS THROUGH BALANCING KINETICS</b> .....	482
<i>Hiroshi Ito</i>	
<b>DYNAMIC QUANTIZED LEADER-FOLLOWER CONSENSUS UNDER DENIAL-OF-SERVICE ATTACKS</b> .....	488
<i>Shuai Feng; Hideaki Ishii</i>	
<b>A BIASED ASSIMILATION MODEL ON SIGNED GRAPHS</b> .....	494
<i>Lingfei Wang; Yiguang Hong; Guodong Shi; Claudio Altafini</i>	
<b>GNE SEEKING IN GAMES WITH PASSIVE DYNAMIC AGENTS VIA INEXACT-PENALTY METHODS</b> .....	500
<i>Andrew R. Romano; Lacra Pavel</i>	
<b>DECENTRALIZED CHARGING COORDINATION OF ELECTRIC VEHICLES USING MULTI-POPULATION GAMES</b> .....	506
<i>Juan Martinez-Piazuelo; Nicanor Quijano; Carlos Ocampo-Martinez</i>	
<b>REINFORCEMENT LEARNING IN NONZERO-SUM LINEAR QUADRATIC DEEP STRUCTURED GAMES: GLOBAL CONVERGENCE OF POLICY OPTIMIZATION</b> .....	512
<i>Masoud Roudneshin; Jalal Arabneydi; Amir G. Aghdam</i>	
<b>HYBRID RIGIDITY THEORY WITH SIGNED CONSTRAINTS AND ITS APPLICATION TO FORMATION SHAPE CONTROL IN 2-D SPACE</b> .....	518
<i>Seong-Ho Kwon; Zhiyong Sun; Brian D. O. Anderson; Hyo-Sung Ahn</i>	
<b>ROBUST CONSENSUS OF SECOND-ORDER HETEROGENEOUS MULTI-AGENT SYSTEMS VIA DYNAMIC INTERACTION</b> .....	524
<i>Elisa Capello; Yasumasa Fujisaki</i>	
<b>THE IMPACT OF MESSAGE PASSING IN AGENT-BASED SUBMODULAR MAXIMIZATION</b> .....	530
<i>David Grimsman; Matthew R. Kirchner; Jo��o P. Hespanha; Jason R. Marden</i>	
<b>POTENTIAL FUNCTION BASED FULLY DISTRIBUTED FINITE-TIME EVENT-TRIGGERED CONSENSUS FOR MULTI-AGENT SYSTEMS OVER DIRECTED GRAPHS</b> .....	536
<i>Changkun Du; Haikuo Liu; Yougang Bian; Changbin Yu</i>	
<b>PROJECTED PUSH-SUM GRADIENT DESCENT-ASCENT FOR CONVEX OPTIMIZATION WITH APPLICATION TO ECONOMIC DISPATCH PROBLEMS</b> .....	542
<i>Jan Zimmermann; Tatiana Tatarenko; Volker Willert; J��rgen Adamy</i>	
<b>AGENT INDEPENDENT PROBABILISTIC ROBUSTNESS CERTIFICATES FOR ROBUST OPTIMIZATION PROGRAMS WITH UNCERTAIN QUADRATIC COST</b> .....	554
<i>George Pantazis; Filiberto Fele; Kostas Margellos</i>	
<b>DISTRIBUTEDLY SOLVING BOOLEAN EQUATIONS OVER NETWORKS</b> .....	560
<i>Hongsheng Qi; Bo Li; Rui-Juan Jing; Alexandre Proutiere; Guodong Shi</i>	
<b>STRONG STRUCTURAL CONTROLLABILITY OF DIFFUSIVELY COUPLED NETWORKS: COMPARISON OF BOUNDS BASED ON DISTANCES AND ZERO FORCING</b> .....	566
<i>Yasin Yazicioglu; Mudassir Shabbir; Waseem Abbas; Xenofon Koutsoukos</i>	
<b>SELF-GUIDED ACTOR-CRITIC: REINFORCEMENT LEARNING FROM ADAPTIVE EXPERT DEMONSTRATIONS</b> .....	572
<i>Haoran Zhang; Chenkun Yin; Yanxin Zhang; Shangtai Jin</i>	
<b>DECENTRALIZED MULTI-AGENT REINFORCEMENT LEARNING WITH MULTI-TIME SCALE OF DECISION EPOCHS</b> .....	578
<i>Junjie Wu; Kuo Li; Qing-Shan Jia</i>	
<b>LEARNING FEEDFORWARD CONTROL OF A HYDRAULIC CLUTCH ACTUATION PATH BASED ON POLICY GRADIENTS</b> .....	585
<i>Felix Mesmer; Tomas Szabo; Knut Graichen</i>	
<b>ONLINE LEARNING FOR JOB SCHEDULING ON HETEROGENEOUS MACHINES</b> .....	591
<i>Yufei Ruan; Ali Yekkehkhany; S. Rasoul Etesami</i>	
<b>LEARNING DYNAMIC-OBJECTIVE POLICIES FROM A CLASS OF OPTIMAL TRAJECTORIES</b> .....	597
<i>Christopher Iliffe Sprague; Dario Izzo; Petter ��gren</i>	
<b>ONLINE INVERSE REINFORCEMENT LEARNING WITH LIMITED DATA</b> .....	603
<i>Ryan Self; S. M. Nahid Mahmud; Katrine Hareland; Rushikesh Kamalapurkar</i>	
<b>REAL-TIME LEARNING OF NON-GAUSSIAN UNCERTAINTY MODELS FOR AUTONOMOUS RACING</b> .....	609
<i>Alexander Wischniewski; Johannes Betz; Boris Lohmann</i>	

<b>VERIFYING DISSIPATIVITY PROPERTIES FROM NOISE-CORRUPTED INPUT-STATE DATA</b> .....	616
<i>Anne Koch; Julian Berberich; Frank Allgöwer</i>	
<b>DISTRIBUTED KALMAN FILTERING FOR SPATIALLY-INVARIANT DIFFUSION PROCESSES: THE EFFECT OF NOISE ON COMMUNICATION REQUIREMENTS</b> .....	622
<i>Juncal Arbeláiz; Bassam Bamieh; Anette E. Hosoi; Ali Jadbabaie</i>	
<b>ROBUST ANALYSIS OF UNCERTAIN ODE-PDE SYSTEMS USING PI MULTIPLIERS, PIES AND LPIS</b> .....	634
<i>Amritam Das; Sachin Shivakumar; Matthew Peet; Siep Weiland</i>	
<b>FORWARDING DESIGN FOR STABILIZATION OF A COUPLED TRANSPORT EQUATION-ODE WITH A CONE-BOUNDED INPUT NONLINEARITY</b> .....	640
<i>Swann Marx; Lucas Brivadis; Daniele Astolfi</i>	
<b>UNKNOWN INPUT OBSERVER DESIGN FOR COUPLED PDE/ODE LINEAR SYSTEMS</b> .....	646
<i>Andrea Cristofaro; Francesco Ferrante</i>	
<b>CONTROL OF A WAVE EQUATION WITH A DYNAMIC BOUNDARY CONDITION</b> .....	652
<i>Nicolas Vanspranghe; Francesco Ferrante; Christophe Prieur</i>	
<b>ESTIMATING BOTH REFLECTION COEFFICIENTS OF 2x2 LINEAR HYPERBOLIC SYSTEMS WITH SINGLE BOUNDARY MEASUREMENT</b> .....	658
<i>Nils Christian A. Wilhelmsen; Florent Di Meglio</i>	
<b>RAPID STABILIZATION OF A REACTION-DIFFUSION EQUATION WITH DISTRIBUTED DISTURBANCE</b> .....	666
<i>Patricio Guzmán; Christophe Prieur</i>	
<b>PERFORMANCE ANALYSIS OF STOCHASTIC MODEL PREDICTIVE CONTROL WITH DIRECT AND INDIRECT FEEDBACK</b> .....	672
<i>Lukas Hewing; Melanie N. Zeilinger</i>	
<b>RESOURCE-AWARE ASYNCHRONOUS MULTI-AGENT COORDINATION VIA SELF-TRIGGERED MPC</b> .....	685
<i>Yingzhao Lian; Stefan Wildhagen; Yuning Jiang; Boris Houska; Frank Allgöwer; Colin N. Jones</i>	
<b>CENTRALIZED MODEL PREDICTIVE CONTROL WITH DISTRIBUTED ADAPTATION</b> .....	697
<i>Prabhat K. Mishra; Tixian Wang; Mattia Gazzola; Girish Chowdhary</i>	
<b>CLOSED-LOOP STABILIZATION OF NONLINEAR SYSTEMS USING KOOPMAN LYAPUNOV-BASED MODEL PREDICTIVE CONTROL</b> .....	704
<i>Abhinav Narasingam; Joseph Sang-Il Kwon</i>	
<b>ASYMPTOTICALLY STABILIZING MULTI-STAGE MODEL PREDICTIVE CONTROL</b> .....	710
<i>Yehia Abdelsalam; Sankaranarayanan Subramanian; Sebastian Engell</i>	
<b>DISTRIBUTED OPTIMAL CONTROL OVER BIT-RATE CONSTRAINED NETWORKS WITH COMMUNICATION DELAY</b> .....	724
<i>V. Caussevic; S. Hirche</i>	
<b>QUADRATIZATION OF HAMILTON-JACOBI-BELLMAN EQUATION FOR NEAR-OPTIMAL CONTROL OF NONLINEAR SYSTEMS</b> .....	731
<i>Arash Amini; Qiyu Sun; Nader Motee</i>	
<b>LEARNING MIN-NORM STABILIZING CONTROL LAWS FOR SYSTEMS WITH UNKNOWN DYNAMICS</b> .....	737
<i>Tyler Westenbroek; Fernando Castañeda; Ayush Agrawal; S. Shankar Sastry; Koushil Sreenath</i>	
<b>A MATRIX PENCIL APPROACH TO EFFICIENT REALIZATION OF DYNAMIC SCALING-BASED OUTPUT-FEEDBACK CONTROLLERS FOR UNCERTAIN NONLINEAR STRICT-FEEDBACK SYSTEMS</b> .....	745
<i>P. Krishnamurthy; F. Khorrami</i>	
<b>EVENT-TRIGGERED STABILIZATION FOR NONLINEAR SYSTEMS WITH CENTER MANIFOLDS</b> .....	751
<i>Akshit Saradagi; Arun D. Mahindrakar; Pavankumar Tallapragada</i>	
<b>A NOTE ON NON ASYMPTOTIC STABILIZATION OF LINEAR TIME DELAY SYSTEMS</b> .....	757
<i>Wilfrid Perruquetti; Nicolás Espitia; Michel Dambrine</i>	
<b>PATH FOLLOWING VIA KINETIC-POTENTIAL ENERGY SHAPING</b> .....	763
<i>Joel Ferguson; Ryotaro Shima; Kenji Fujimoto</i>	
<b>HIGHER-ORDER SINGULAR PERTURBATIONS FOR CONTROL DESIGN WITH APPLICATION TO THE CONTROL OF INDUCTION MOTORS</b> .....	769
<i>Pauline Bernard; Al Kassem Jebai; Philippe Martin</i>	
<b>SAFE MULTI-AGENT INTERACTION THROUGH ROBUST CONTROL BARRIER FUNCTIONS WITH LEARNED UNCERTAINTIES</b> .....	777
<i>Richard Cheng; Mohammad Javad Khojasteh; Aaron D. Ames; Joel W. Burdick</i>	
<b>FORMAL TEST SYNTHESIS FOR SAFETY-CRITICAL AUTONOMOUS SYSTEMS BASED ON CONTROL BARRIER FUNCTIONS</b> .....	790
<i>Prithvi Akella; Mohamadreza Ahmadi; Richard M. Murray; Aaron D. Ames</i>	
<b>CONTROL BARRIER FUNCTIONS FOR SAFE CPS UNDER SENSOR FAULTS AND ATTACKS</b> .....	796
<i>Andrew Clark; Zhouchi Li; Hongchao Zhang</i>	
<b>CONTROL BARRIER FUNCTIONS FOR SAMPLED-DATA SYSTEMS WITH INPUT DELAYS</b> .....	804
<i>Andrew Singletary; Yuxiao Chen; Aaron D. Ames</i>	
<b>CONTROL BARRIER FUNCTIONS FOR ABSTRACTION-FREE CONTROL SYNTHESIS UNDER TEMPORAL LOGIC CONSTRAINTS</b> .....	816
<i>Luyao Niu; Andrew Clark</i>	
<b>ALMOST GLOBALLY STABLE GRID-FORMING HYBRID ANGLE CONTROL</b> .....	830
<i>Ali Tayyebi; Adolfo Anta; Florian Dörfler</i>	
<b>FULLY DECENTRALIZED CONDITIONS FOR LOCAL CONVERGENCE OF DC/AC CONVERTER NETWORK BASED ON MATCHING CONTROL</b> .....	836
<i>Taouba Jouini; Zhiyong Sun</i>	

<b>DATA-DRIVEN PASSIVITY-BASED CURRENT CONTROLLER DESIGN FOR POWER-ELECTRONIC CONVERTERS OF TRACTION SYSTEMS</b> .....	842
<i>Seyed Soheil Madani; Alireza Karimi</i>	
<b>TOWARDS PLUG-AND-PLAY CONVERTER-INTERFACED DC MICROGRIDS</b> .....	848
<i>Mahdieh S. Sadabadi</i>	
<b>P+LEAKY I PASSIVITY-BASED CONTROL OF POWER CONVERTERS</b> .....	854
<i>Daniele Zonetti; Gilbert Bergna-Diaz; Romeo Ortega</i>	
<b>SAFETY VERIFICATION OF UNKNOWN DYNAMICAL SYSTEMS VIA GAUSSIAN PROCESS REGRESSION</b> .....	860
<i>John Jackson; Luca Laurenti; Eric Frew; Morteza Lahijanian</i>	
<b>INNER-APPROXIMATING REACH-AVOID SETS FOR DISCRETE-TIME POLYNOMIAL SYSTEMS</b> .....	867
<i>Bai Xue; Naijun Zhan; Martin Fränzle</i>	
<b>EFFICIENT SAFETY CONTROL SYNTHESIS WITH IMPERFECT STATE INFORMATION</b> .....	874
<i>Liren Yang; Necmiye Ozay</i>	
<b>CONSTRUCTION OF CONTINUOUS ABSTRACTIONS FOR DISCRETE-TIME TIME-DELAY SYSTEMS</b> .....	881
<i>Mobin Shahamat; Javad Askari; Abdalla Swikir; Navid Noroozi; Majid Zamani</i>	
<b>A SYMBOLIC APPROACH TO DISTRIBUTED CONTROL OF INTERCONNECTED SYSTEMS</b> .....	887
<i>W. A. Apaza-Perez; C. Combastel; A. Zolghadri</i>	
<b>LEMNAS ON DETERMINATION OF MINIMUM BANDWIDTH OF Q-FILTER FOR ROBUST STABILITY OF FEEDBACK LOOP WITH DISTURBANCE OBSERVERS</b> .....	893
<i>Hamin Chang; Hyuntae Kim; Hyungbo Shim</i>	
<b>A LOW-COMPLEXITY TUBE CONTROLLER USING CONTRACTIVE INVARIANT SETS</b> .....	899
<i>Joel A. Paulson; Ali Mesbah</i>	
<b>REDUCED CONSERVATISM PROOF OF THE BALANCED MIMO GAIN AND PHASE MARGINS</b> .....	905
<i>David Seiferth; Rubens Afonso; Florian Holzapfel; Matthias Heller</i>	
<b>DESIGN OF ROBUST FEED-THROUGH COMPENSATOR VIA DISTURBANCE OBSERVER</b> .....	916
<i>Soojeong Hyeon; Hyuntae Kim; Hyungbo Shim</i>	
<b>NONLINEAR CURRENT CONTROL WITH MODIFIED TORQUE MODULATION FOR PERMANENT MAGNET SYNCHRONOUS MOTORS</b> .....	928
<i>Yong Woo Jeong; Chung Choo Chung</i>	
<b>HYBRID-MEM-ELEMENT FEEDFORWARD: WITH APPLICATION TO HYSTERETIC PIEZOELECTRIC ACTUATORS</b> .....	934
<i>Nard Strijbosch; Tom Oomen</i>	
<b>OUTPUT-FEEDBACK CONTROL OF A PIEZOMICROPOSITIONING TUBE ACTUATOR WITH UNCERTAIN NONLINEARITIES</b> .....	940
<i>Mohammad Al Janaideh; Almuatazbellah M. Boker; Micky Rakotondrabe</i>	
<b>TOWARDS SAFE LOCOMOTION NAVIGATION IN PARTIALLY OBSERVABLE ENVIRONMENTS WITH UNEVEN TERRAIN</b> .....	958
<i>Jonas Warnke; Abdulaziz Shamsah; Yingke Li; Ye Zhao</i>	
<b>ABNORMAL GAIT RECOGNITION IN REAL-TIME USING RECURRENT NEURAL NETWORKS</b> .....	972
<i>Thanaporn Jinnovart; Xiongcai Cai; Kundjanasith Thonglek</i>	
<b>ON THE CONSISTENCY OF MAXIMUM LIKELIHOOD ESTIMATORS FOR CAUSAL NETWORK IDENTIFICATION</b> .....	990
<i>Xiaotian Xie; Dimitrios Katselis; Carolyn L. Beck; R. Srikant</i>	
<b>FINITE-TIME IDENTIFICATION OF STABLE LINEAR SYSTEMS OPTIMALITY OF THE LEAST-SQUARES ESTIMATOR</b> .....	996
<i>Yassir Jedra; Alexandre Proutiere</i>	
<b>STRUCTURAL RISK MINIMIZATION FOR SWITCHED SYSTEM IDENTIFICATION</b> .....	1002
<i>Louis Massucci; Fabien Lauer; Marion Gilson</i>	
<b>HAMILTONIAN IDENTIFICATION OF QUANTUM NETWORKS FROM SEQUENTIAL BOOLEAN MEASUREMENTS</b> .....	1008
<i>Biqiang Mu; Hongsheng Qi; Ian R. Petersen; Guodong Shi</i>	
<b>LEARNING INTERACTION DYNAMICS FROM PARTICLE TRAJECTORIES AND DENSITY EVOLUTION</b> .....	1014
<i>Christos N. Mavridis; Amoolya Tirumalai; John S. Baras</i>	
<b>A TRACTABLE MEAN FIELD GAME MODEL FOR THE ANALYSIS OF CROWD EVACUATION DYNAMICS</b> .....	1020
<i>Noureddine Toumi; Roland Malhamé; Jerome Le Ny</i>	
<b>ON THE MASTER EQUATION FOR LINEAR QUADRATIC GRAPHON MEAN FIELD GAMES</b> .....	1026
<i>Rinel Foguen Tchuendom; Peter E. Caines; Minyi Huang</i>	
<b>MODEL-FREE REINFORCEMENT LEARNING FOR NON-STATIONARY MEAN FIELD GAMES</b> .....	1032
<i>Rajesh K. Mishra; Deepanshu Vasal; Sriram Vishwanath</i>	
<b>POLICY OPTIMIZATION FOR LINEAR-QUADRATIC ZERO-SUM MEAN-FIELD TYPE GAMES</b> .....	1038
<i>René Carmona; Kenza Hamidouche; Mathieu Laurière; Zongjun Tan</i>	
<b>A STOCHASTIC CONSENSUS METHOD FOR NONCONVEX OPTIMIZATION ON THE STIEFEL MANIFOLD</b> .....	1050
<i>Jeongho Kim; Myeongju Kang; Dohyun Kim; Seung-Yeal Ha; Insoon Yang</i>	
<b>OPTIMAL ONLINE ALGORITHMS FOR ONE-WAY TRADING AND ONLINE KNAPSACK PROBLEMS: A UNIFIED COMPETITIVE ANALYSIS</b> .....	1064
<i>Ying Cao; Bo Sun; Danny H. K. Tsang</i>	

<b>OPTIMIZING TAIL RISKS USING AN IMPORTANCE SAMPLING BASED EXTRAPOLATION FOR HEAVY-TAILED OBJECTIVES</b> .....	1070
<i>Anand Deo; Karthyek Murthy</i>	
<b>HAMILTON-JACOBI FORMULATION FOR STATE-CONSTRAINED OPTIMAL CONTROL AND ZERO-SUM GAME PROBLEMS</b> .....	1078
<i>Donggun Lee; Alexander Keimer; Alexandre M. Bayen; Claire J. Tomlin</i>	
<b>ROBUST DISCRETE-TIME PONTRYAGIN MAXIMUM PRINCIPLE ON MATRIX LIE GROUPS</b> .....	1086
<i>Anant A. Joshi; Debasish Chatterjee; Ravi N. Banavar</i>	
<b>ON THE SOLUTION OF OPTIMAL CONTROL PROBLEMS USING PARAMETERIZED STATE-DEPENDENT RICCATI EQUATIONS</b> .....	1098
<i>Adam Jones; Alessandro Astolfi</i>	
<b>A COEVOLUTIONARY MODEL FOR ACTIONS AND OPINIONS IN SOCIAL NETWORKS</b> .....	1110
<i>Lorenzo Zino; Mengbin Ye; Ming Cao</i>	
<b>STRUCTURAL EQUILIBRIUM CONTROL OF NETWORK SYSTEMS</b> .....	1116
<i>Shun-Ichi Azuma</i>	
<b>STREISAND GAMES ON COMPLEX SOCIAL NETWORKS</b> .....	1122
<i>Sujay Bhatt; Tamer Basar</i>	
<b>SIGN GRADIENT DESCENT METHOD BASED BAT SEARCHING ALGORITHM WITH APPLICATION TO THE ECONOMIC LOAD DISPATCH PROBLEM</b> .....	1140
<i>Haopeng Zhang; Qing Hui; Emmanuel Moulay; Patrick Coirault</i>	
<b>IDENTIFICATION OF STATE-SPACE MODELS WITH BANDED TOEPLITZ SYSTEM MATRICES</b> .....	1146
<i>Chengpu Yu; Yinqiu Xia</i>	
<b>AN UNDER-APPROXIMATION FOR THE ROBUST UNCERTAIN TWO-LEVEL COOPERATIVE SET COVERING PROBLEM</b> .....	1152
<i>Shuxin Ding; Qi Zhang; Zhiming Yuan</i>	
<b>DISTRIBUTED NOISE COVARIANCE MATRICES ESTIMATION IN SENSOR NETWORKS</b> .....	1158
<i>Jiahong Li; Nan Ma; Fang Deng</i>	
<b>AGENT-BASED SELF-ORGANIZED CONSTRUCTIVE HEURISTICS FOR TRAVELLING SALESMAN PROBLEM</b> .....	1164
<i>Sai Lu; Bin Xin; Hao Zhang; Jie Chen</i>	
<b>PREDICTIVE BANDITS</b> .....	1170
<i>Simon Lindstähl; Alexandre Proutiere; Andreas Johnsson</i>	
<b>RESTLESS HIDDEN MARKOV BANDIT WITH LINEAR REWARDS</b> .....	1183
<i>Michal Yemini; Amir Leshem; Anelia Somekh-Baruch</i>	
<b>BAYESIAN IDENTIFICATION OF HAMILTONIAN DYNAMICS FROM SYMPLECTIC DATA</b> .....	1190
<i>Nicholas Galioto; Alex A. Gorodetsky</i>	
<b>NONPARAMETRIC ESTIMATION OF UNCERTAINTY SETS FOR ROBUST OPTIMIZATION</b> .....	1196
<i>Polina Alexeenko; Eilyan Bitar</i>	
<b>LOCALIZATION OF THE LQR FEEDBACK KERNEL IN SPATIALLY-INVARIANT PROBLEMS OVER SOBOLEV SPACES</b> .....	1204
<i>Emily Jensen; Jonathan P. Epperlein; Bassam Bamieh</i>	
<b>WELL-POSEDNESS OF EXTENDED KALMAN FILTER EQUATIONS FOR SEMILINEAR INFINITE-DIMENSIONAL SYSTEMS</b> .....	1210
<i>Sepideh Afshar; Fabian Germ; Kirsten Morris</i>	
<b>OPTIMAL GUIDANCE AND ESTIMATION OF A 1D DIFFUSION PROCESS BY A TEAM OF MOBILE SENSORS</b> .....	1222
<i>Sheng Cheng; Derek A. Paley</i>	
<b>ADAPTIVE STABILIZATION OF TIME-DELAY FEEDFORWARD SYSTEMS WITH UNKNOWN PARAMETERS</b> .....	1229
<i>Jiwei Sun; Wei Lin</i>	
<b>DYNAMIC UNCERTAINTIES IN MODEL PREDICTIVE CONTROL: GUARANTEED STABILITY FOR CONSTRAINED LINEAR SYSTEMS</b> .....	1235
<i>Lukas Schwenkel; Johannes Köhler; Matthias A. Müller; Frank Allgöwer</i>	
<b>ROBUST SATISFACTION OF NONLINEAR REQUIREMENTS IN CONTROL PROBLEMS</b> .....	1242
<i>Maxime Pouilly-Cathelain; Philippe Feyel; Gilles Duc; Guillaume Sandou</i>	
<b>DISTRIBUTED MODEL PREDICTIVE CONTROL FOR CONSENSUS OF CONSTRAINED HETEROGENEOUS LINEAR SYSTEMS</b> .....	1248
<i>Matthias Hirche; Philipp N. Köhler; Matthias A. Müller; Frank Allgöwer</i>	
<b>ENSEMBLE MODEL PREDICTIVE CONTROL: LEARNING AND EFFICIENT ROBUST CONTROL OF UNCERTAIN DYNAMICAL SYSTEMS</b> .....	1254
<i>Daniel Pastor; Carl Folkestad; Joel W. Burdick</i>	
<b>ROBUST CONSTRAINT SATISFACTION IN DATA-DRIVEN MPC</b> .....	1260
<i>Julian Berberich; Johannes Köhler; Matthias A. Müller; Frank Allgöwer</i>	
<b>COUNTER-EXAMPLE GUIDED SYNTHESIS OF NEURAL NETWORK LYAPUNOV FUNCTIONS FOR PIECEWISE LINEAR SYSTEMS</b> .....	1274
<i>Hongkai Dai; Benoit Landry; Marco Pavone; Russ Tedrake</i>	
<b>ON DUALITY FOR LYAPUNOV FUNCTIONS OF NONSTRICT CONVEX PROCESSES</b> .....	1288
<i>Jaap Eising; M. Kanat Camlibel</i>	



<b>ATTITUDE OBSERVERS AIDED BY IMPLICIT MEASUREMENTS OF THE EARTH ANGULAR VELOCITY</b> .....	1300
<i>Joel Reis; Carlos Silvestre; Pedro Batista; Paulo Oliveira</i>	
<b>DETERMINISTIC OBSERVER DESIGN FOR VISION-AIDED INERTIAL NAVIGATION</b> .....	1306
<i>Tarek Hamel; Minh-Duc Hua; Claude Samson</i>	
<b>EQUIVARIANT VISUAL ODOMETRY IN THE WILD</b> .....	1314
<i>Robert Mahony; Pieter Van Goor; Mina Henein; Ryan Pike; Jun Zhang; Yonhon Ng</i>	
<b>OBSERVERS DESIGN FOR INERTIAL NAVIGATION SYSTEMS: A BRIEF TUTORIAL</b> .....	1320
<i>Miaomiao Wang; Abdelhamid Tayebi</i>	
<b>DECENTRALIZED STABILITY CONDITIONS FOR INVERTER-BASED MICROGRIDS</b> .....	1341
<i>Khaled Laib; Jeremy Watson; Ioannis Lestas</i>	
<b>FRAMEWORK FOR NETWORK-CONSTRAINED COOPERATIVE TRADING OF MULTI-MICROGRID SYSTEMS</b> .....	1347
<i>Mohasha Isuru; Ashok Krishnan; Eddy Y. S. Foo; H. B. Gooi</i>	
<b>DECENTRALIZED ELECTRIC VEHICLE CHARGING CONTROL VIA A NOVEL SHRUNKEN PRIMAL-MULTI-DUAL SUBGRADIENT (SPMDS) ALGORITHM</b> .....	1367
<i>Xiang Huo; Mingxi Liu</i>	
<b>BARRIER FUNCTIONS FOR MULTIAGENT-POMDPS WITH DTL SPECIFICATIONS</b> .....	1380
<i>Mohamadreza Ahmadi; Andrew Singletary; Joel W. Burdick; Aaron D. Ames</i>	
<b>STATISTICALLY MODEL CHECKING PCTL SPECIFICATIONS ON MARKOV DECISION PROCESSES VIA REINFORCEMENT LEARNING</b> .....	1392
<i>Yu Wang; Nima Roohi; Matthew West; Mahesh Viswanathan; Geir E. Dullerud</i>	
<b>SINGLE-AGENT INDIRECT HERDING OF MULTIPLE TARGETS USING METRIC TEMPORAL LOGIC SWITCHING</b> .....	1398
<i>Duc M. Le; Xusheng Luo; Leila J. Bridgeman; Michael M. Zavlanos; Warren E. Dixon</i>	
<b>BP-RRT: BARRIER PAIR SYNTHESIS FOR TEMPORAL LOGIC MOTION PLANNING</b> .....	1404
<i>Bingham He; Jaemin Lee; Ufuk Topcu; Luis Sentis</i>	
<b>ENSURING SAFETY FOR VEHICLE PARKING TASKS USING HAMILTON-JACOBI REACHABILITY ANALYSIS</b> .....	1416
<i>Frank J. Jiang; Yulong Gao; Lihua Xie; Karl H. Johansson</i>	
<b>CONTROL BARRIER FUNCTIONS FOR NONHOLONOMIC SYSTEMS UNDER RISK SIGNAL TEMPORAL LOGIC SPECIFICATIONS</b> .....	1422
<i>Lars Lindemann; George J. Pappas; Dimos V. Dimarogonas</i>	
<b>ROBUST-ADAPTIVE INTERVAL PREDICTIVE CONTROL FOR LINEAR UNCERTAIN SYSTEMS</b> .....	1429
<i>Edouard Leurent; Denis Efimov; Odalric-Ambrym Maillard</i>	
<b>FINITE-TIME NEWTON SEEKING CONTROL FOR A CLASS OF UNKNOWN STATIC MAPS</b> .....	1435
<i>Martin Guay</i>	
<b>RELAXATION OF STRICTLY POSITIVE REAL CONDITION FOR TUNING FEEDFORWARD CONTROL</b> .....	1441
<i>Kenji Sugimoto; Wataru Imahayashi; Ryo Arimoto</i>	
<b>DYNAMIC CERTAINTY EQUIVALENCE ADAPTIVE CONTROL BY NONLINEAR PARAMETER FILTERING</b> .....	1454
<i>Gilberto Pin; Yang Wang; Andrea Serrani; Thomas Parisini</i>	
<b>MULTI-MODEL INDIRECT ADAPTIVE MPC</b> .....	1460
<i>Abhishek Dhar; Shubhendu Bhasin</i>	
<b>ASYMPTOTIC STABILIZATION ADAPTIVE CONTROLLER DESIGN FOR MISMATCHED INTERCONNECTED TIME DELAY SYSTEMS</b> .....	1466
<i>Zhengqiang Zhang; Chen Yang</i>	
<b>A NEAR FUEL-OPTIMAL STATION-KEEPING STRATEGY FOR HALO ORBITS</b> .....	1478
<i>Chinari Subhechha Subudhi; Srikanish Vutukuri; Radhakant Padhi</i>	
<b>AN MPC STRATEGY FOR LOW-THRUST SPACE DEBRIS RENDEZVOUS</b> .....	1484
<i>Mirko Leomanni; Gianni Bianchini; Andrea Garulli; Antonio Giannitrapani; Renato Quartullo</i>	
<b>ABORT-SAFE SPACECRAFT RENDEZVOUS IN CASE OF PARTIAL THRUST FAILURE</b> .....	1490
<i>Daniel Aguilar Marsillach; Stefano Di Cairano; Avishai Weiss</i>	
<b>QUADRATIC PROGRAMS FOR HIGH RELATIVE DEGREE SPATIAL CONSTRAINTS AND SPATIOTEMPORAL SPECIFICATIONS WITH SPACECRAFT APPLICATIONS</b> .....	1496
<i>Joseph Breedem; Dimitra Panagou</i>	
<b>OUTPUT FEEDBACK STABILIZATION OF AN ORBITAL ROBOT</b> .....	1503
<i>Hrishik Mishra; Marco De Stefano; Alessandro M. Giordano; Christian Ott</i>	
<b>RIGID BODY GEOMETRIC ATTITUDE ESTIMATOR USING MULTI-RATE SENSORS</b> .....	1511
<i>Maulik Bhatt; Srikant Sukumar; Amit K. Sanyal</i>	
<b>A KINEMATIC HYBRID FEEDBACK CONTROLLER ON THE UNIT CIRCLE SUITABLE FOR ORIENTATION CONTROL OF SHIPS</b> .....	1523
<i>Mathias Marley; Roger Skjetne; Andrew R. Teel</i>	
<b>PERIMETER-DEFENSE GAME BETWEEN AERIAL DEFENDER AND GROUND INTRUDER</b> .....	1530
<i>Elijah S. Lee; Daigo Shishika; Vijay Kumar</i>	
<b>ROBOT NAVIGATION ON STAR WORLDS USING A SINGLE-STEP NAVIGATION TRANSFORMATION</b> .....	1537
<i>Nicolas Constantinou; Savvas G. Loizou</i>	
<b>VECTOR FIELD GUIDED PATH FOLLOWING CONTROL: SINGULARITY ELIMINATION AND GLOBAL CONVERGENCE</b> .....	1543
<i>Weijia Yao; Héctor García De Marina; Ming Cao</i>	

<b>DISTRIBUTED LOCALIZATION FOR MULTI-ROBOT SYSTEMS IN PRESENCE OF UNLOCALIZABLE ROBOTS</b> .....	1550
<i>Zhiyun Lin; Zhimin Han; Ming Cao</i>	
<b>LAGRANGIAN REACTUBES: THE NEXT GENERATION</b> .....	1556
<i>Sophie Gruenbacher; Jacek Cyranka; Mathias Lechner; Md. Ariful Islam; Scott A. Smolka; Radu Grosu</i>	
<b>DYNAMIC PATH GENERATION FOR MULTIROTOR AERIAL DOCKING IN FORWARD FLIGHT</b> .....	1564
<i>Ajay Shankar; Sebastian Elbaum; Carrick Detweiler</i>	
<b>MINIMAL TIME DELIVERY OF MULTIPLE ROBOTS</b> .....	1572
<i>Miguel Aguiar; Jorge Estrela Da Silva; João Borges De Sousa</i>	
<b>SAFE FEEDBACK MOTION PLANNING: A CONTRACTION THEORY AND L<sub>1</sub>-ADAPTIVE CONTROL BASED APPROACH</b> .....	1578
<i>Arun Lakshmanan; Aditya Gahlawat; Naira Hovakimyan</i>	
<b>APPROXIMATIONS OF THE REPRODUCING KERNEL HILBERT SPACE (RKHS) EMBEDDING METHOD OVER MANIFOLDS</b> .....	1596
<i>Jia Guo; Sai Tej Paruchuri; Andrew J. Kurdila</i>	
<b>INTRINSIC AND EXTRINSIC APPROXIMATION OF KOOPMAN OPERATORS OVER MANIFOLDS</b> .....	1608
<i>Sai Tej Paruchuri; Jia Guo; Michael Kepler; Tim Ryan; Haoran Wang; Andrew J. Kurdila; Daniel Stilwell</i>	
<b>TRACTABLE GLOBAL SOLUTIONS TO BAYESIAN OPTIMAL EXPERIMENT DESIGN</b> .....	1614
<i>Diogo Rodrigues; Georgios Makrygiorgos; Ali Mesbah</i>	
<b>SHRINKAGE STRATEGIES FOR STRUCTURE SELECTION AND IDENTIFICATION OF PIECEWISE AFFINE MODELS</b> .....	1626
<i>Valentina Breschi; Manas Mehari</i>	
<b>A GAME THEORETIC ANALYSIS OF LQG CONTROL UNDER ADVERSARIAL ATTACK</b> .....	1632
<i>Zuxing Li; György Dán; Dong Liu</i>	
<b>A META-LEARNING AND BOUNDED RATIONALITY FRAMEWORK FOR REPEATED GAMES IN ADVERSARIAL ENVIRONMENTS</b> .....	1640
<i>Aris Kanellopoulos; Filippos Fotiadis; Kyriakos G. Vamvoudakis; Vijay Gupta</i>	
<b>A GAME-THEORETIC APPROACH FOR GENERATIVE ADVERSARIAL NETWORKS</b> .....	1646
<i>Barbara Franci; Sergio Grammatico</i>	
<b>GUARDING A CIRCULAR TARGET BY PATROLLING ITS PERIMETER</b> .....	1658
<i>Alexander Von Moll; Meir Pachter; Daigo Shishika; Zachariah Fuchs</i>	
<b>THE COST OF DENIED OBSERVATION IN MULTIAGENT SUBMODULAR OPTIMIZATION</b> .....	1666
<i>David Grimsman; Joshua H. Seaton; Jason R. Marden; Philip N. Brown</i>	
<b>EVOLUTIONARY GAME DYNAMICS FOR CROWD BEHAVIOR IN EMERGENCY EVACUATIONS</b> .....	1672
<i>Diego Marti Mason; Leonardo Stella; Dario Bauso</i>	
<b>ON THE RATE OF CONVERGENCE OF CONTINUOUS-TIME GAME DYNAMICS IN N-PLAYER POTENTIAL GAMES</b> .....	1678
<i>Bolin Gao; Lacro Pavel</i>	
<b>A SUFFICIENT CONDITION FOR LOCAL OPTIMA TO BE GLOBALLY OPTIMAL</b> .....	1684
<i>Fengyu Zhou; Steven H. Low</i>	
<b>CONVEX MODEL TO EVALUATE WORST-CASE PERFORMANCE OF LOCAL SEARCH IN THE OPTIMAL POWER FLOW PROBLEM</b> .....	1691
<i>Elizabeth Glista; Somayeh Sojoudi</i>	
<b>LEARNING MIXED-INTEGER CONVEX OPTIMIZATION STRATEGIES FOR ROBOT PLANNING AND CONTROL</b> .....	1698
<i>Abhishek Cauligi; Preston Culbertson; Bartolomeo Stellato; Dimitris Bertsimas; Mac Schwager; Marco Pavone</i>	
<b>SENSOR PLACEMENT MINIMIZING THE STATE ESTIMATION MEAN SQUARE ERROR: PERFORMANCE GUARANTEES OF GREEDY SOLUTIONS</b> .....	1706
<i>Akira Kohara; Kumihsa Okano; Kentaro Hirata; Yukinori Nakamura</i>	
<b>SYSTEM LEVEL SYNTHESIS VIA DYNAMIC PROGRAMMING</b> .....	1718
<i>Shih-Hao Tseng; Carmen Amo Alonso; Soojean Han</i>	
<b>AN EM ALGORITHM FOR THE TIME-VARIANT VECTOR HAWKES PROCESS</b> .....	1726
<i>Syed Ahmed Pasha; Victor Solo; Boris Godoy</i>	
<b>DISCRETE MINIMUM TIME CONTROL VIA ITERATIVE OPTIMIZATION AND SLIDING WINDOW ALGORITHM</b> .....	1732
<i>Yipeng Yang; Andrew M. Williamson</i>	
<b>LOWER BOUNDS FOR POLICY ITERATION ON MULTI-ACTION MDPS</b> .....	1744
<i>Kumar Ashutosh; Sarthak Consul; Bhishma Dedhia; Parthasarathi Khirwadkar; Sahil Shah; Shivaram Kalyanakrishnan</i>	
<b>SCALABLE SYNTHESIS OF MINIMUM-INFORMATION LINEAR-GAUSSIAN CONTROL BY DISTRIBUTED OPTIMIZATION</b> .....	1750
<i>Murat Cubuktepe; Takashi Tanaka; Ufuk Topcu</i>	
<b>CHANCE CONSTRAINED COVARIANCE CONTROL FOR LINEAR STOCHASTIC SYSTEMS WITH OUTPUT FEEDBACK</b> .....	1758
<i>Jack Ridderhof; Kazuhide Okamoto; Panagiotis Tsiotras</i>	
<b>COVARIANCE STEERING FOR DISCRETE-TIME LINEAR-QUADRATIC STOCHASTIC DYNAMIC GAMES</b> .....	1771
<i>Venkata Ramana Makkapati; Tanmay Rajpurohit; Kazuhide Okamoto; Panagiotis Tsiotras</i>	
<b>MINIMAX CONTROL OF AMBIGUOUS LINEAR STOCHASTIC SYSTEMS USING THE WASSERSTEIN METRIC</b> .....	1777
<i>Kihyun Kim; Insoon Yang</i>	

<b>HOW TO PROTECT YOUR PRIVACY? A FRAMEWORK FOR COUNTER-ADVERSARIAL DECISION MAKING .....</b>	1785
<i>Inês Lourenço; Robert Mattila; Cristian R. Rojas; Bo Wahlberg</i>	
<b>SOCIAL LEARNING WITH SPARSE BELIEF SAMPLES .....</b>	1792
<i>Rabih Salhab; Amir Ajorlou; Ali Jadbabaie</i>	
<b>NETWORK LYAPUNOV FUNCTIONS FOR EPIDEMIC MODELS .....</b>	1798
<i>Matthew Newton; Antonis Papachristodoulou</i>	
<b>DATA-DRIVEN DISTRIBUTED CONTROL: VIRTUAL REFERENCE FEEDBACK TUNING IN DYNAMIC NETWORKS .....</b>	1804
<i>Tom R. V. Steentjes; Mircea Lazar; Paul M. J. Van Den Hof</i>	
<b>IDENTIFYING THE CONNECTIVITY OF FEASIBLE REGIONS FOR OPTIMAL DECENTRALIZED CONTROL PROBLEMS .....</b>	1810
<i>Yingjie Bi; Javad Lavaei</i>	
<b>A HIERARCHICAL APPROACH FOR THE STOCHASTIC STABILITY ANALYSIS OF EVOLUTIONARY DYNAMICS .....</b>	1818
<i>Hassan Jaleel; Jeff S. Shamma</i>	
<b>EXPONENTIAL SYNCHRONIZATION OF NONLINEAR OSCILLATORS UNDER SAMPLED-DATA COUPLING .....</b>	1824
<i>Jiju Thomas; Erik Steur; Christophe Fiter; Laurentiu Hetel; Nathan Van De Wouw</i>	
<b>THE MINIMAL DIRECTED INFORMATION NEEDED TO IMPROVE THE LQG COST .....</b>	1842
<i>Oron Sabag; Peida Tian; Victoria Kostina; Babak Hassibi</i>	
<b>TIME-BASED TRANSMISSION POWER POLICIES FOR ENERGY-EFFICIENT WIRELESS CONTROL OF NONLINEAR SYSTEMS .....</b>	1854
<i>Vineeth S. Varma; Romain Postoyan; Daniel E. Quevedo; Irinel-Constantin Morarescu</i>	
<b>THROUGHPUT-MAXIMUM ENERGY-AWARE RATE ADAPTATION IN W-NCSS OVER QUASI-STATIC FADING CHANNELS .....</b>	1860
<i>Muhammad Royyan; Mikko Vehkaperä; Themistoklis Charalambous; Risto Wichman</i>	
<b>STOCHASTIC STABILISATION AND POWER CONTROL FOR NONLINEAR FEEDBACK LOOPS COMMUNICATING OVER LOSSY WIRELESS NETWORKS .....</b>	1866
<i>Alejandro I. Maass; Dragan Nešić; Vineeth S. Varma; Romain Postoyan; Samson Lasaulce</i>	
<b>DISTRIBUTED STABILIZATION BY PROBABILITY CONTROL FOR DETERMINISTIC-STOCHASTIC LARGE SCALE SYSTEMS: DISSIPATIVITY APPROACH .....</b>	1884
<i>Koji Tsumura; Binh Minh Nguyen; Hisaya Wakayama; Shinji Hara</i>	
<b>DEEP LEARNING OF KOOPMAN REPRESENTATION FOR CONTROL .....</b>	1890
<i>Yiqiang Han; Wenjian Hao; Umesh Vaidya</i>	
<b>FEASIBILITY-GUIDED LEARNING FOR CONSTRAINED OPTIMAL CONTROL PROBLEMS .....</b>	1896
<i>Wei Xiao; Calin A. Belta; Christos G. Cassandras</i>	
<b>COMPUTING STABILIZING LINEAR CONTROLLERS VIA POLICY ITERATION .....</b>	1902
<i>Andrew Lamperski</i>	
<b>ACTIVE TASK-INFERENCE-GUIDED DEEP INVERSE REINFORCEMENT LEARNING .....</b>	1932
<i>Farzan Memarian; Zhe Xu; Bo Wu; Min Wen; Ufuk Topcu</i>	
<b>INPUT-OUTPUT ADMISSIBILITY ANALYSIS OF DISCRETE DESCRIPTOR SYSTEM WITH TIME-VARYING DELAY .....</b>	1951
<i>H. El Aïss; K. A. Barbosa</i>	
<b>ANALYSIS OF PREDICTOR FEEDBACK FOR TIME-VARYING DELAYS THAT MAY ASSUME ZERO VALUE .....</b>	1957
<i>Yonglong Liao; Shu-Xia Tang; Fucheng Liao; Miroslav Krstić</i>	
<b>NEW RESULTS ON DELAY ROBUSTNESS OF CONSENSUS ALGORITHMS .....</b>	1963
<i>Anton V. Proskurnikov; Giuseppe Calafiore</i>	
<b>STABILITY ANALYSIS FOR NON-WEAKLY REVERSIBLE SINGLE LINKAGE CLASS CHEMICAL REACTION NETWORKS WITH ARBITRARY TIME DELAYS .....</b>	1969
<i>Hirokazu Komatsu; Hiroyuki Nakajima</i>	
<b>ON FINITE-TIME STABILIZATION OF A CLASS OF NONLINEAR TIME-DELAY SYSTEMS: IMPLICIT LYAPUNOV-RAZUMIKHIN APPROACH .....</b>	1975
<i>Artem N. Nekhoroshikh; Denis Efimov; Andrey Polyakov; Wilfrid Perruquetti; Igor B. Furtat</i>	
<b>ON NECESSARY CONDITIONS OF TRACKING CONTROL FOR NONLINEAR SYSTEMS VIA CONTRACTION ANALYSIS .....</b>	2000
<i>Bowen Yi; Ruiqiang Wang; Ian R. Manchester</i>	
<b>GLOBAL ATTITUDE CONTROL VIA CONTRACTION ON MANIFOLDS WITH REFERENCE TRAJECTORY AND OPTIMIZATION .....</b>	2006
<i>Bee Vang; Roberto Tron</i>	
<b>LOCAL CONTRACTION ANALYSIS OF STOCHASTIC SYSTEMS WITH LIMIT CYCLES .....</b>	2014
<i>Eva Ahbe; Andrea Iannelli; Roy S. Smith</i>	
<b>DIRECT MODEL REFERENCE ADAPTIVE CONTROL FOR TRACKING CONTRACTING NONLINEAR SYSTEMS .....</b>	2026
<i>Nak-Seung Patrick Hyun; Mark Petersen; Robert J. Wood</i>	
<b>ENFORCING SAFETY AT RUNTIME FOR SYSTEMS WITH DISTURBANCES .....</b>	2038
<i>Matthew Abate; Samuel Coogan</i>	

<b>STRONG INVARIANCE USING CONTROL BARRIER FUNCTIONS: A CLARKE TANGENT CONE APPROACH</b> .....	2044
<i>James Usevitch; Kunal Garg; Dimitra Panagou</i>	
<b>PROVABLY SAFE CONTROL OF LAGRANGIAN SYSTEMS IN OBSTACLE-SCATTERED ENVIRONMENTS</b> .....	2056
<i>Fernando S. Barbosa; Lars Lindemann; Dimos V. Dimarogonas; Jana Tumova</i>	
<b>APPROXIMATE OPTIMAL CONTROL FOR SAFETY-CRITICAL SYSTEMS WITH CONTROL BARRIER FUNCTIONS</b> .....	2062
<i>Max H. Cohen; Calin Belta</i>	
<b>DIFFERENTIALLY PRIVATE DISTRIBUTED OPTIMAL POWER FLOW</b> .....	2092
<i>Vladimir Dvorkin; Pascal Van Hentenryck; Jalal Kazempour; Pierre Pinson</i>	
<b>STABILITY ANALYSIS OF DROOP-CONTROLLED INVERTER-BASED POWER GRIDS VIA TIMESCALE SEPARATION</b> .....	2098
<i>Stefanos Baros; Christoforos N. Hadjicostis; Francis O'Sullivan</i>	
<b>A HIERARCHICAL CONTROL SCHEME FOR OPTIMAL SECONDARY FREQUENCY REGULATION WITH ON-OFF LOADS IN POWER NETWORKS</b> .....	2105
<i>Andreas Kasis; Stelios Timotheou; Marios Polycarpou</i>	
<b>RESILIENT ABSTRACTION-BASED CONTROLLER DESIGN</b> .....	2123
<i>Stanly Samuel; Kaushik Mallik; Anne-Kathrin Schmuck; Daniel Neider</i>	
<b>COMPUTING NON-CONVEX INNER-APPROXIMATIONS OF REACHABLE SETS FOR NONLINEAR CONTINUOUS SYSTEMS</b> .....	2130
<i>Niklas Kochdumper; Matthias Althoff</i>	
<b>FORMAL SYNTHESIS FROM CONTROL PROGRAMS</b> .....	2138
<i>Vladimir Sinyakov; Antoine Girard</i>	
<b>COMPOSITIONAL VERIFICATION OF INITIAL-STATE OPACITY FOR SWITCHED SYSTEMS</b> .....	2146
<i>Stiyuan Liu; Abdalla Swikir; Majid Zamani</i>	
<b>ROBUST CLOSED-LOOP MODEL PREDICTIVE CONTROL VIA SYSTEM LEVEL SYNTHESIS</b> .....	2152
<i>Shaoru Chen; Han Wang; Manfred Morari; Victor M. Preciado; Nikolai Matni</i>	
<b>REAL-TIME CONVEX-LIFTING-BASED ROBUST CONTROL USING APPROXIMATED CONTROL LAW</b> .....	2160
<i>Michaela Horváthová; Juraj Oravec; Monika Bakošová</i>	
<b>DISTRIBUTED SPATIALLY INVARIANT SYSTEMS: AN INPUT-OUTPUT APPROACH</b> .....	2178
<i>Seddik M. Djouadi; Samaneh Morovati</i>	
<b>TIGHTENED CONVEX RELAXATIONS FOR NEURAL NETWORK ROBUSTNESS CERTIFICATION</b> .....	2190
<i>Brendon G. Anderson; Z. Ma; Jingqi Li; Somayeh Sojoudi</i>	
<b>TWO-LEVEL LATTICE NEURAL NETWORK ARCHITECTURES FOR CONTROL OF NONLINEAR SYSTEMS</b> .....	2198
<i>James Ferlez; Xiaowu Sun; Yasser Shoukry</i>	
<b>MULTILAYER NEURAL NETWORK-BASED OPTIMAL ADAPTIVE TRACKING CONTROL OF PARTIALLY UNCERTAIN NONLINEAR DISCRETE-TIME SYSTEMS</b> .....	2204
<i>Rohollah Moghadam; Pappa Natarajan; Sarangapani Jagannathan</i>	
<b>FEEDBACK CONTROL OF DYNAMIC ARTIFICIAL NEURAL NETWORKS USING LINEAR MATRIX INEQUALITIES</b> .....	2210
<i>Anastasia Nikolakopoulou; Moo Sun Hong; Richard D. Braatz</i>	
<b>STOCHASTIC APPROXIMATION FOR CVAR-BASED VARIATIONAL INEQUALITIES</b> .....	2216
<i>Jasper Verbree; Ashish Cherukuri</i>	
<b>TIGHT GENERALIZATION GUARANTEES FOR THE SAMPLING AND DISCARDING APPROACH TO SCENARIO OPTIMIZATION</b> .....	2228
<i>Licio Romao; Kostas Margellos; Antonis Papachristodoulou</i>	
<b>IDENTIFICATION OF SUPPORTING HYPERPLANES IN SCENARIO OPTIMISATION PROBLEMS WITH RANDOM LINEAR CONSTRAINTS</b> .....	2234
<i>Hamza Mahmood; Hasan Arshad Nasir; Usman Ali</i>	
<b>PROBABILISTIC DISCRETE TIME ROBUST <math>H_2</math> CONTROLLER DESIGN</b> .....	2240
<i>Mohammadreza Chamanbaz; Mario Sznaiier; Constantino Lagoa; Fabrizio Dabbene</i>	
<b>MIMO SYSTEM IDENTIFICATION BY RANDOMIZED ACTIVE-SET METHODS</b> .....	2246
<i>Jared Miller; Rajiv Singh; Mario Sznaiier</i>	
<b>NON-ITERATIVE CONTROL-ORIENTED REGULARIZATION FOR LINEAR SYSTEM IDENTIFICATION</b> .....	2252
<i>Alessandro Chiuso; Simone Formentin; Francesco Zanini</i>	
<b>CONTROL OF UNKNOWN NONLINEAR SYSTEMS WITH LINEAR TIME-VARYING MPC</b> .....	2258
<i>Dimitris Papadimitriou; Ugo Rosolia; Francesco Borrelli</i>	
<b>ROBUST DUAL CONTROL BASED ON GAIN SCHEDULING</b> .....	2270
<i>Janani Venkatasubramanian; Johannes Köhler; Julian Berberich; Frank Allgöwer</i>	
<b>REINFORCEMENT LEARNING IN NON-STATIONARY DISCRETE-TIME LINEAR-QUADRATIC MEAN-FIELD GAMES</b> .....	2278
<i>Muhammad Aneeq Uz Zaman; Kaiqing Zhang; Erik Miehling; Tamer Başar</i>	
<b>DISTRIBUTED COMPUTATION OF NASH EQUILIBRIA FOR MONOTONE AGGREGATIVE GAMES VIA ITERATIVE REGULARIZATION</b> .....	2285
<i>Jinlong Lei; Uday V. Shanbhag; Jie Chen</i>	
<b>A GRADIENT-FREE DISTRIBUTED NASH EQUILIBRIUM SEEKING METHOD WITH UNCOORDINATED STEP-SIZES</b> .....	2291
<i>Yipeng Pang; Guoqiang Hu</i>	

<b>ON THE EXACT CONVERGENCE TO NASH EQUILIBRIUM IN MONOTONE REGIMES UNDER PARTIAL-INFORMATION</b> .....	2297
<i>Dian Gadjov; Lacra Pavel</i>	
<b>A FULLY-DISTRIBUTED PROXIMAL-POINT ALGORITHM FOR NASH EQUILIBRIUM SEEKING WITH LINEAR CONVERGENCE RATE</b> .....	2303
<i>Mattia Bianchi; Giuseppe Belgioioso; Sergio Grammatico</i>	
<b>A UNIFIED ALGORITHMIC FRAMEWORK FOR DISTRIBUTED COMPOSITE OPTIMIZATION</b> .....	2309
<i>Jinming Xu; Ye Tian; Ying Sun; Gesualdo Scutari</i>	
<b>A NEWTON TRACKING ALGORITHM WITH EXACT LINEAR CONVERGENCE RATE FOR DECENTRALIZED CONSENSUS OPTIMIZATION</b> .....	2317
<i>Jiaojiao Zhang; Qing Ling; Anthony Man-Cho So</i>	
<b>ACHIEVING GLOBALLY SUPERLINEAR CONVERGENCE FOR DISTRIBUTED OPTIMIZATION WITH ADAPTIVE NEWTON METHOD</b> .....	2329
<i>Jiaqi Zhang; Keyou You; Tamer Basar</i>	
<b>A ROBUST GRADIENT TRACKING METHOD FOR DISTRIBUTED OPTIMIZATION OVER DIRECTED NETWORKS</b> .....	2335
<i>Shi Pu</i>	
<b>REAL TIME OPTIMIZATION OF SYSTEMS WITH FAST AND SLOW DYNAMICS USING A LOOKAHEAD STRATEGY</b> .....	2342
<i>Joakim Rostrup Andersen; Thiago Lima Silva; Lars Imsland; Alexey Pavlov</i>	
<b>THE TURNPIKE PROPERTY IN THE MAXIMUM HANDS-OFF CONTROL</b> .....	2350
<i>Noboru Sakamoto; Masaaki Nagahara</i>	
<b>A CONSISTENT NUMERICAL APPROACH TO A CLASS OF OPTIMAL CONTROL PROCESSES GOVERNED BY VOLTERRA INTEGRO-DIFFERENTIAL EQUATIONS</b> .....	2362
<i>Vadim Azhmyakov; Erik I. Verriest; Camilo Londoño; Raymundo Juarez Del Toro</i>	
<b>OPTIMAL CONTROL SEPARATING TWO MICROALGAE SPECIES COMPETING IN A CHEMOSTAT</b> .....	2368
<i>Walid Djema; Olivier Bernard; T�rence Bayen</i>	
<b>DISTRIBUTED OUTPUT FEEDBACK CONSENSUS CONTROL OF MULTIPLE LUR'E SYSTEMS BASED ON EVENT-TRIGGERED MECHANISM</b> .....	2374
<i>Jianjun Sun; Haikuo Liu; Changkun Du; Xiangdong Liu; Zhen Chen; Pingli Lu</i>	
<b>VIBRATION CONTROL BASED ON REINFORCEMENT LEARNING FOR A FLEXIBLE BUILDING-LIKE STRUCTURE SYSTEM WITH ACTIVE MASS DAMPER AGAINST DISTURBANCE EFFECTS</b> .....	2380
<i>Hejia Gao; Wei He; Youmin Zhang; Changyin Sun</i>	
<b>EVENT-TRIGGERED ADAPTIVE HORIZON MODEL PREDICTIVE CONTROL FOR PERTURBED NONLINEAR SYSTEMS</b> .....	2392
<i>Pengfei Li; Tao Wang; Yu Kang; Yun-Bo Zhao</i>	
<b>DYNAMIC OUTPUT FEEDBACK CONTROL OF A SAMPLED-DATA SYSTEM UNDER STOCHASTIC SAMPLING</b> .....	2398
<i>Haoyuan Sun; Honggui Han; Jian Sun; Jie Chen</i>	
<b>MARGINAL DENSITY AVERAGING FOR DISTRIBUTED NODE LOCALIZATION FROM LOCAL EDGE MEASUREMENTS</b> .....	2404
<i>Parth Paritosh; Nikolay Atanasov; Sonia Martinez</i>	
<b>KULLBACK-LEIBLER AVERAGE OF VON MISES DISTRIBUTIONS IN MULTI-AGENT SYSTEMS</b> .....	2411
<i>Cody Fan; Tsang-Kai Chang; Ankur Mehta</i>	
<b>DISTRIBUTED KALMAN FILTER FOR 3-D MOVING OBJECT TRACKING OVER SENSOR NETWORKS</b> .....	2418
<i>Pengxiang Zhu; Wei Ren</i>	
<b>ADVANCED SPSA-BASED ALGORITHM FOR MULTI-TARGET TRACKING IN DISTRIBUTED SENSOR NETWORKS</b> .....	2424
<i>Anna Sergeenko; Oleg Gramichin; Anton V. Proskurnikov</i>	
<b>LEARNING CONTROL FOR POLYNOMIAL SYSTEMS USING SUM OF SQUARES RELAXATIONS</b> .....	2436
<i>Meichen Guo; Claudio De Persis; Pietro Tesi</i>	
<b>SAFE LEARNING-BASED MODEL PREDICTIVE CONTROL UNDER STATE- AND INPUT-DEPENDENT UNCERTAINTY USING SCENARIO TREES</b> .....	2448
<i>Angelo D. Bonzanini; Joel A. Paulson; Ali Mesbah</i>	
<b>CONSTRAINED OPTIMAL TRACKING CONTROL OF UNKNOWN SYSTEMS: A MULTI-STEP LINEAR PROGRAMMING APPROACH</b> .....	2455
<i>Alexandros Tzanzanakis; John Lygeros</i>	
<b>SCENARIO OPTIMIZATION WITH RELAXATION: A NEW TOOL FOR DESIGN AND APPLICATION TO MACHINE LEARNING PROBLEMS</b> .....	2463
<i>Marco C. Campi; Simone Garatti</i>	
<b>AN <math>O(T^2)</math> DISCRETE-TIME ADAPTIVE REGULATOR FOR UNCERTAIN MIMO SYSTEMS WITH BOUNDED INPUT DELAYS</b> .....	2469
<i>Khalid Abidi; Soo Hang Jian</i>	
<b>PRESCRIBED-TIME PREDICTOR CONTROL OF LTI SYSTEMS WITH INPUT DELAY</b> .....	2477
<i>Nicol�s Espitia; Wilfrid Perruquetti</i>	
<b>AN IMPROVED LYAPUNOV STABILITY TEST FOR LINEAR TIME-DELAY SYSTEMS</b> .....	2489
<i>Alexey Egorov</i>	
<b>CONVEX LIFTING BASED INVERSE PARAMETRIC OPTIMIZATION FOR IMPLICIT MODEL PREDICTIVE CONTROL: A CASE STUDY</b> .....	2501
<i>Martin Gulan; Ngoc Anh Nguyen; Gergely Tak�cs</i>	

<b>A FRAMEWORK FOR EMBEDDED MODEL PREDICTIVE CONTROL USING POSITS</b> .....	2509
<i>Chaitanya Jugade; Deepak Ingole; Dayaram Sonawane; Michal Kvasnica; John Gustafson</i>	
<b>FAST RISK-SENSITIVE MODEL PREDICTIVE CONTROL FOR SYSTEMS WITH TIME-SERIES FORECASTING UNCERTAINTIES</b> .....	2515
<i>Eunjeong Hyeon; Youngki Kim; Anna G. Stefanopoulou</i>	
<b>ERROR BOUNDS FOR REDUCED ORDER MODEL PREDICTIVE CONTROL</b> .....	2521
<i>Joseph Lorenzetti; Marco Pavone</i>	
<b>ROBUST OUTPUT FEEDBACK MPC: AN INTERVAL-OBSERVER APPROACH</b> .....	2529
<i>Alex Reis De Souza; Denis Efimov; Tarek Raïssi; Xubin Ping</i>	
<b>SAMPLING QUOTIENT-RING SUM-OF-SQUARES PROGRAMS FOR SCALABLE VERIFICATION OF NONLINEAR SYSTEMS</b> .....	2535
<i>Shen Shen; Russ Tedrake</i>	
<b>ON QUANTIZATION IN DISCRETE-TIME CONTROL SYSTEMS: STABILITY ANALYSIS OF TERNARY CONTROLLERS</b> .....	2543
<i>Giorgio Valmorbida; Francesco Ferrante</i>	
<b>AN LMI-BASED ITERATIVE ALGORITHM FOR STATE AND OUTPUT FEEDBACK STABILIZATION OF DISCRETE-TIME LUR'E SYSTEMS</b> .....	2561
<i>Ariadne L. J. Bertolin; Pedro L. D. Peres; Ricardo C. L. F. Oliveira; Giorgio Valmorbida</i>	
<b>SCHEDULING OF FLEXIBLE NON-PREEMPTIVE LOADS</b> .....	2567
<i>Nathan Dahlin; Rahul Jain</i>	
<b>JOINT PRICING AND REBALANCING OF AUTONOMOUS MOBILITY-ON-DEMAND SYSTEMS</b> .....	2573
<i>Salomón Wollenstein-Betech; Ioannis Ch. Paschalidis; Christos G. Cassandras</i>	
<b>NUDGING THE AGGREGATIVE BEHAVIOR OF NONCOOPERATIVE AGENTS</b> .....	2579
<i>Mehran Shakarami; Ashish Cherukuri; Nima Monshizadeh</i>	
<b>OFF-STREET PARKING FOR TNC VEHICLES TO REDUCE CRUISING TRAFFIC</b> .....	2585
<i>Sen Li; Junjie Qin; Hai Yang; Kameshwar Poolla; Pravin Varaiya</i>	
<b>DIRECT TRANSCRIPTION FOR DYNAMIC OPTIMIZATION: A TUTORIAL WITH A CASE STUDY ON DUAL-PATIENT VENTILATION DURING THE COVID-19 PANDEMIC</b> .....	2597
<i>Eric C. Kerrigan; Yuanbo Nie; Omar Faqir; Caroline H. Kennedy; Steven A. Niederer; Jose A. Solis-Lemus; Peter Vincent; Steven E. Williams</i>	
<b>LEARNING CONSTRAINED RESOURCE ALLOCATION POLICIES IN WIRELESS CONTROL SYSTEMS</b> .....	2615
<i>Vinicius Lima; Mark Eisen; Alejandro Ribeiro</i>	
<b>TOWARD DISTRIBUTED OPTIMIZATION FOR CRITICAL SERVICE RESTORATION WITH DISTRIBUTED ENERGY RESOURCES</b> .....	2628
<i>Junkai Liang; Wenyuan Tang; Xiaonan Lu</i>	
<b>EFFICIENT DISTRIBUTED SOLUTIONS FOR SHARING ENERGY RESOURCES AT THE LOCAL LEVEL: A COOPERATIVE GAME APPROACH</b> .....	2634
<i>Diego Kiedanski; Ana Bušić; Daniel Kofman; Ariel Orda</i>	
<b>SOCIAL RESOURCE ALLOCATION IN A MOBILITY SYSTEM WITH CONNECTED AND AUTOMATED VEHICLES: A MECHANISM DESIGN PROBLEM</b> .....	2642
<i>Ioannis Vasileios Chremos; Andreas A. Malikopoulos</i>	
<b>ON THE STABILITY AND FAIRNESS OF SUBMODULAR ALLOCATIONS</b> .....	2648
<i>Panagiotis Kyriakis; Sergio Pequito; Paul Bogdan</i>	
<b>PARTICLE BASED OPTIMIZATION FOR PREDICTIVE ENERGY EFFICIENT DATA CENTER MANAGEMENT</b> .....	2660
<i>A. D. Carnerero; D. R. Ramirez; D. Limon; T. Alamo</i>	
<b>DETECTION AND ISOLATION OF ACTUATOR FAULTS AND COLLISIONS FOR A FLEXIBLE ROBOT ARM</b> .....	2684
<i>Claudio Gaz; Andrea Cristofaro; Alessandro De Luca</i>	
<b>STRUCTURAL METHODS FOR DISTRIBUTED FAULT DIAGNOSIS OF LARGE-SCALE SYSTEMS</b> .....	2690
<i>Daniel Jung</i>	
<b>FAULT-TOLERANT TRACKING CONTROL FOR HETEROGENEOUS MULTI-AGENT SYSTEMS</b> .....	2696
<i>Thiem V. Pham; Quynh T. T. Nguyen; Nahir Messai; Noureddine Manamanni</i>	
<b>A GENERAL DISCRETE-TIME METHOD TO ACHIEVE RESILIENCE IN CONSENSUS ALGORITHMS</b> .....	2702
<i>Guilherme Ramos; Daniel Silvestre; Carlos Silvestre</i>	
<b>MODEL REFERENCE SLIDING MODE FAULT TOLERANT CONTROL OF A BWB AIRCRAFT</b> .....	2708
<i>Liam Vile; Halim Alwi; Christopher Edwards</i>	
<b>AN MCMC METHOD FOR UNCERTAINTY SET GENERATION VIA OPERATOR-THEORETIC METRICS</b> .....	2714
<i>Anand Srinivasan; Naoya Takeishi</i>	
<b>A QUADRATIC PROGRAM BASED CONTROL SYNTHESIS UNDER SPATIOTEMPORAL CONSTRAINTS AND NON-VANISHING DISTURBANCES</b> .....	2726
<i>Mitchell Black; Kunal Garg; Dimitra Panagou</i>	
<b>EXPLORATIVE PROBABILISTIC PLANNING WITH UNKNOWN TARGET LOCATIONS</b> .....	2732
<i>Farhad Nawaz; Melkior Ornik</i>	
<b>A SCENARIO APPROACH FOR ROBUST OPTIMIZATION OVER UNCERTAIN SYSTEM IDENTIFICATION MODELS</b> .....	2738
<i>Xiaopuwen Wang; Erik Weyer</i>	
<b>COMPARATIVE STUDY OF OUTPUT-BASED AND ERROR-BASED ADRC SCHEMES IN APPLICATION TO BUCK CONVERTER-FED DC MOTOR SYSTEM</b> .....	2744
<i>Rafal Madonski; Krzysztof Lakomy; Jun Yang</i>	

<b>GUARANTEED REACHABILITY FOR SYSTEMS WITH UNKNOWN DYNAMICS</b> .....	2756
<i>Melkior Ornik</i>	
<b>DISTANCE-BASED FORMATION CONTROL OVER DIRECTED TRIANGULATED LAMAN GRAPHS IN 2-D SPACE</b> .....	2786
<i>Reza Babazadeh; Rastko R. Selmic</i>	
<b>DISTRIBUTED ADAPTIVE EVENT-TRIGGERED CONSENSUS WITH DISCRETE CONTROL UPDATING</b> .....	2793
<i>Bin Cheng; Yuezuo Lv; Zhongkui Li</i>	
<b>FORMATION CONTROL OF MULTI-AGENT SYSTEMS WITH GENERALIZED RELATIVE MEASUREMENTS</b> .....	2799
<i>Kazunori Sakurama</i>	
<b>ON GLOBAL CONVERGENCE OF AREA-CONSTRAINED FORMATIONS OF HIERARCHICAL MULTI-AGENT SYSTEMS</b> .....	2805
<i>Toshiharu Sugie; Fei Tong; Brian D. O. Anderson; Zhiyong Sun</i>	
<b>ON THE UTILIZATION OF MACROSCOPIC INFORMATION FOR STRING STABILITY OF A VEHICULAR PLATOON</b> .....	2811
<i>Marco Mirabilio; Alessio Iovine; Elena De Santis; Maria Domenica Di Benedetto; Giordano Pola</i>	
<b>REDUCING TIME HEADWAY IN PLATOONS UNDER THE MPF TOPOLOGY WHEN USING SENSORS AND WIRELESS COMMUNICATIONS</b> .....	2823
<i>Elham Abolfazli; Bart Besselink; Themistoklis Charalambous</i>	
<b>OPTIMAL MOTION CONTROL FOR CONNECTED AND AUTOMATED ELECTRIC VEHICLES AT SIGNAL-FREE INTERSECTIONS</b> .....	2831
<i>Xiao Pan; Boli Chen; Simos A. Evangelou; Stelios Timotheou</i>	
<b>STRING STABLE INTEGRAL CONTROL OF VEHICLE PLATOONS WITH ACTUATOR DYNAMICS AND DISTURBANCES</b> .....	2837
<i>Guilherme Frões Silva; Alejandro Donaire; Aaron McFadyen; Jason Ford</i>	
<b>DISTRIBUTED NONLINEAR MODEL PREDICTIVE CONTROL AND METRIC LEARNING FOR HETEROGENEOUS VEHICLE PLATOONING WITH CUT-IN/CUT-OUT MANEUVERS</b> .....	2849
<i>Mohammad Hossein Basiri; Benyamin Ghojogh; Nasser L. Azad; Sebastian Fischmeister; Fakhri Karray; Mark Crowley</i>	
<b>PLATOON CONTROL ON PREDECESSOR AND DELAYED LEADER INFORMATION VIA MINIMIZED HEADWAY TIMES</b> .....	2857
<i>Hakan Köroglu; Paolo Falcone</i>	
<b>ITERATIVE <math>H_{\infty}</math>-NORM ESTIMATION USING CYCLIC-PREFIXED SIGNALS</b> .....	2869
<i>Matias I. Müller; Cristian R. Rojas</i>	
<b>ESTIMATION OF HETEROSCEDASTIC MULTILINEAR SYSTEMS</b> .....	2875
<i>Mingliang Wang; Elling W. Jacobsen; Véronique Chotteau; Håkan Hjalmarsson</i>	
<b>TOWARDS STATE ESTIMATION OF PERSIDSKII SYSTEMS</b> .....	2881
<i>Wenjie Mei; Denis Efimov; Rosane Ushirobira</i>	
<b>DIFFERENTIALLY PRIVATE PARAMETER ESTIMATION: OPTIMAL NOISE INSERTION AND DATA OWNER SELECTION</b> .....	2887
<i>Xuanyu Cao; Tamer Basar</i>	
<b>ROBUST MOVING HORIZON STATE ESTIMATION FOR UNCERTAIN LINEAR SYSTEMS USING LINEAR MATRIX INEQUALITIES</b> .....	2900
<i>Anastasis Georgiou; Furqan Tahir; Simos A. Evangelou; Imad M. Jaimoukha</i>	
<b>A COMPACT CRB FOR THE SINGLE SOURCE CONDITIONAL SIGNAL MODEL WITH APPLICATION TO DELAY-DOPPLER-PHASE ESTIMATION OF BAND-LIMITED SIGNALS</b> .....	2906
<i>L. Ortega; D. Medina; J. Vilà-Valls; F. Vincent; E. Chaumette</i>	
<b>ROBUST TRACKING UNDER MEASUREMENT MODEL MISMATCH VIA LINEARLY CONSTRAINED EXTENDED KALMAN FILTERING</b> .....	2924
<i>L. Ortega; J. Vilà-Valls; E. Chaumette; G. Pagès; F. Vincent</i>	
<b>LOW-RANK KALMAN FILTERING UNDER MODEL UNCERTAINTY</b> .....	2930
<i>Shenglun Yi; Mattia Zorzi</i>	
<b>EXPLOITING LINEAR SUBSTRUCTURE IN LINEAR REGRESSION KALMAN FILTERS</b> .....	2942
<i>Marcus Greiff; Anders Robertsson; Karl Berntorp</i>	
<b>SEQUENTIAL COORDINATES CONVERSION AND DECOUPLED LINEAR TRACKING FOR AIRBORNE AESA RADARS</b> .....	2955
<i>Bo-Young Jung; Dahye Ham; Won-Sang Ra</i>	
<b>ACCELERATED MULTI-AGENT OPTIMIZATION METHOD OVER STOCHASTIC NETWORKS</b> .....	2961
<i>Wicak Ananduta; Carlos Ocampo-Martinez; Angelia Nedic</i>	
<b>A DECENTRALIZED ALGORITHM FOR LARGE SCALE MIN-MAX PROBLEMS</b> .....	2967
<i>Soham Mukherjee; Mrityunjay Chakraborty</i>	
<b>DISTRIBUTED MAXIMIZATION OF SUBMODULAR AND APPROXIMATELY SUBMODULAR FUNCTIONS</b> .....	2979
<i>Lintao Ye; Shreyas Sundaram</i>	
<b>PRECONDITIONED DISTRIBUTED TRAJECTORY OPTIMIZATION ALGORITHM USING DIFFERENTIAL DYNAMIC PROGRAMMING</b> .....	2985
<i>Yunzhuo Wang; Koji Tsumura</i>	
<b>D-DISTADMM: A <math>O(1/K)</math> DISTRIBUTED ADMM FOR DISTRIBUTED OPTIMIZATION IN DIRECTED GRAPH TOPOLOGIES</b> .....	2992
<i>Vivek Khatana; Murti V. Salapaka</i>	

<b>OVERLAPPING SCHWARZ DECOMPOSITION FOR CONSTRAINED QUADRATIC PROGRAMS</b> .....	3004
<i>Sunggho Shin; Mihai Anitescu; Victor M. Zavala</i>	
<b>ROBUST DUAL CONTROL OF BATCH PROCESSES WITH PARAMETRIC UNCERTAINTY USING PROXIMAL POLICY OPTIMIZATION</b> .....	3016
<i>Ha-Eun Byun; Boeun Kim; Jay H. Lee</i>	
<b>HARVESTING ENERGY FROM A PERIODIC HEAT BATH</b> .....	3034
<i>Rui Fu; Olga Movilla Miangolarra; Amirhossein Taghvaei; Yongxin Chen; Tryphon T. Georgiou</i>	
<b>RISK-CONSTRAINED LINEAR-QUADRATIC REGULATORS</b> .....	3040
<i>Anastasios Tsiamis; Dionysios S. Kalogerias; Luiz F. O. Chamon; Alejandro Ribeiro; George J. Pappas</i>	
<b>STOCHASTIC CONTROL WITH RANDOM COEFFICIENTS UNDER RECURSIVE-TYPE OBJECTIVE FUNCTIONALS</b> .....	3048
<i>Jun Moon; Yoonsoo Kim</i>	
<b>STABILIZING OPTIMAL DENSITY CONTROL OF NONLINEAR AGENTS WITH MULTIPLICATIVE NOISE</b> .....	3054
<i>Kaivalya Bakshi; Evangelos A. Theodorou; Piyush Grover</i>	
<b>A PASSIVITY-INSPIRED DESIGN OF POWER-VOLTAGE DROOP CONTROLLERS FOR DC MICROGRIDS WITH ELECTRICAL NETWORK DYNAMICS</b> .....	3060
<i>Juan E. Machado; Johannes Schiffer</i>	
<b>RUMOR-ROBUST DECENTRALIZED GAUSSIAN PROCESS LEARNING, FUSION, AND PLANNING FOR MODELING MULTIPLE MOVING TARGETS</b> .....	3066
<i>Chang Liu; Zhihao Liao; Silvia Ferrari</i>	
<b>A DISTRIBUTED ALGORITHM FOR SEQUENTIAL DECISION MAKING IN MULTI-ARMED BANDIT WITH HOMOGENEOUS REWARDS</b> .....	3078
<i>Jingxuan Zhu; Romeil Sandhu; Ji Liu</i>	
<b>ASPECTS OF FAIRNESS IN ROBUST, DISTRIBUTED CONTROL OF INTERCONNECTED SYSTEMS</b> .....	3084
<i>Magnus Axelson-Fisk; Steffi Knorn</i>	
<b>SYSTEMATIC ANALYSIS OF DISTRIBUTED OPTIMIZATION ALGORITHMS OVER JOINTLY-CONNECTED NETWORKS</b> .....	3096
<i>Bryan Van Scoy; Laurent Lessard</i>	
<b>A RELAXED SMALL-GAIN THEOREM FOR DISCRETE-TIME INFINITE NETWORKS</b> .....	3102
<i>Navid Noroozi; Andrii Mironchenko; Fabian R. Wirth</i>	
<b>INITIAL-VALUE PRIVACY OF LINEAR DYNAMICAL SYSTEMS</b> .....	3108
<i>Lei Wang; Ian R. Manchester; Jochen Trunpf; Guodong Shi</i>	
<b>INTERESTING PHENOMENA IN THE SYNCHRONISATION OF DISTURBED SYSTEMS</b> .....	3114
<i>Marc Wissing; Thimo Oehlschlägel; Jan Lunze</i>	
<b>INTERPLAY BETWEEN RESILIENCE AND ACCURACY IN RESILIENT VECTOR CONSENSUS IN MULTI-AGENT NETWORKS</b> .....	3127
<i>Waseem Abbas; Mudassir Shabbir; Jiani Li; Xenofon Koutsoukos</i>	
<b>DISTRIBUTED COMPUTATION OF GRAPH MATCHING IN MULTI-AGENT NETWORKS</b> .....	3139
<i>Quoc Van Tran; Zhiyong Sun; Brian D. O. Anderson; Hyo-Sung Ahn</i>	
<b>ROLLOUT SCHEDULING AND CONTROL FOR DISTURBED SYSTEMS VIA TUBE MPC</b> .....	3145
<i>Stefan Wildhagen; Frank Allgöwer</i>	
<b>A CLOUD-ENABLED RATE-SWITCHING MPC ARCHITECTURE</b> .....	3151
<i>Per Skarin; Johan Eker; Karl-Erik Årzén</i>	
<b>BAYESIAN SAFE LEARNING AND CONTROL WITH SUM-OF-SQUARES ANALYSIS AND POLYNOMIAL KERNELS</b> .....	3159
<i>Alex Devonport; He Yin; Murat Arcaç</i>	
<b>VARIATIONAL BAYESIAN INFERENCE FOR CROWDSOURCING PREDICTIONS</b> .....	3166
<i>Desmond Cai; Duc Thien Nguyen; Shtau Hong Lim; Laura Wynter</i>	
<b>BAYESIAN PERCEPTRON: TOWARDS FULLY BAYESIAN NEURAL NETWORKS</b> .....	3179
<i>Marco F. Huber</i>	
<b>SAFETY GUARANTEES FOR ITERATIVE PREDICTIONS WITH GAUSSIAN PROCESSES</b> .....	3187
<i>Kyriakos Polymenakos; Luca Laurenti; Andrea Patane; Jan-Peter Calliess; Luca Cardelli; Marta Kwiatkowska; Alessandro Abate; Stephen Roberts</i>	
<b>AVERAGE MARGIN REGULARIZATION FOR CLASSIFIERS</b> .....	3194
<i>Matt Olfat; Anil Aswani</i>	
<b>LEARNING MULTIPLE NONLINEAR DYNAMICAL SYSTEMS WITH SIDE INFORMATION</b> .....	3206
<i>Naoya Takeishi; Yoshinobu Kawahara</i>	
<b>REINFORCEMENT LEARNING BASED APPROACH FOR FLIP ATTACK DETECTION</b> .....	3212
<i>Hanxiao Liu; Yuchao Li; Jonas Mårtensson; Lihua Xie; Karl Henrik Johansson</i>	
<b>ANOMALY DETECTION IN SYSTEMS WITH PERIODIC OUTPUTS</b> .....	3224
<i>Ricardo Cuesta; Joaquin Alvarez; Justin Ruths; Jonatan Pena Ramirez</i>	
<b>DECENTRALIZED EVENT-TRIGGERED CONTROL IN THE PRESENCE OF ADVERSARIES</b> .....	3236
<i>Paul Griffioen; Raffaele Romagnoli; Bruce H. Krogh; Bruno Sinopoli</i>	
<b>ASYMPTOTIC SECURITY OF CONTROL SYSTEMS BY COVERT REACTION: REPEATED SIGNALING GAME WITH UNDISCLOSED BELIEF</b> .....	3243
<i>Hampei Sasahara; Serkan Saritas; Henrik Sandberg</i>	
<b>AUTHENTICATED COMPUTATION OF CONTROL SIGNAL FROM DYNAMIC CONTROLLERS</b> .....	3249
<i>Jung Hee Cheon; Dongwoo Kim; Junsoo Kim; Seungbeom Lee; Hyungbo Shim</i>	



<b>THE EFFECT OF BEHAVIORAL PROBABILITY WEIGHTING IN A SEQUENTIAL DEFENDER-ATTACKER GAME</b> .....	3255
<i>Mustafa Abdallah; Timothy Cason; Saurabh Bagchi; Shreyas Sundaram</i>	
<b>SWITCHED OPTIMAL CONTROL AND DWELL TIME CONSTRAINTS: A PRELIMINARY STUDY</b> .....	3261
<i>Moad Abudia; Michael Harlan; Ryan Self; Rushikesh Kamalapurkar</i>	
<b>ELLIPSOID-BASED SENSOR FAULT DETECTION FOR DISCRETE-TIME SWITCHED SYSTEMS</b> .....	3267
<i>Chaima Zammali; Jérémy Van Gorp; Zhenhua Wang; Xubin Ping; Tarek Raïssi</i>	
<b>EXISTENCE OF INITIAL CONDITION INDEPENDENT STABILISING SWITCHING FUNCTIONS</b> .....	3273
<i>Christopher Townsend; Maria M. Seron</i>	
<b>PATH-COMPLETE LYAPUNOV FUNCTIONS FOR CONTINUOUS-TIME SWITCHING SYSTEMS</b> .....	3279
<i>Matteo Della Rossa; Mirko Pasquini; David Angeli</i>	
<b>ALMOST GLOBAL STABILITY OF NONLINEAR SWITCHED SYSTEM WITH STABLE AND UNSTABLE SUBSYSTEMS</b> .....	3285
<i>Aysegül Kivilcim; Özkan Karabacak; Rafaël Wisniewski</i>	
<b>IMPLICIT INVARIANT SETS FOR HIGH-DIMENSIONAL SWITCHED AFFINE SYSTEMS</b> .....	3291
<i>Andrew Wintenberg; Necmiye Ozay</i>	
<b>SCHEDULING NETWORKED CONTROL SYSTEMS UNDER JAMMING ATTACKS</b> .....	3298
<i>Atreyee Kundu</i>	
<b>STABILITY AND ROBUSTNESS ANALYSIS OF SWITCHED VIBRATIONAL CONTROL</b> .....	3304
<i>Xiaoxiao Cheng; Ying Tan; Iven Mareels</i>	
<b>SAFE TRACKING CONTROL OF AN UNCERTAIN EULER-LAGRANGE SYSTEM WITH FULL-STATE CONSTRAINTS USING BARRIER FUNCTIONS</b> .....	3310
<i>Iman Salehi; Ghananeel Rotithor; Daniel Trombetta; Ashwin P. Dani</i>	
<b>GAUSSIAN CONTROL BARRIER FUNCTIONS: SAFE LEARNING AND CONTROL</b> .....	3316
<i>Mouhyemen Khan; Abhijit Chatterjee</i>	
<b>AN EXPLICIT REFERENCE GOVERNOR FOR TIME-VARYING LINEAR CONSTRAINTS</b> .....	3323
<i>Mehdi Hosseinzadeh; Bruno Sinopoli; Aaron F. Bobick</i>	
<b>CONSTRUCTION OF CONTROL BARRIER FUNCTION AND <math>C^2</math> REFERENCE TRAJECTORY FOR CONSTRAINED ATTITUDE MANEUVERS</b> .....	3329
<i>Xiao Tan; Dimos V. Dimarogonas</i>	
<b>NAW-NET: NEURAL ANTI-WINDUP CONTROL FOR SATURATED NONLINEAR SYSTEMS</b> .....	3335
<i>Valentina Breschi; Daniele Masti; Simone Formentin; Alberto Bemporad</i>	
<b>CONSTRAINED CONTROL FOR MICROGRIDS WITH CONSTANT POWER LOADS</b> .....	3341
<i>Pablo R. Baldivieso-Monasterios; George C. Konstantopoulos</i>	
<b>ADAPTIVE ROBUST QUADRATIC PROGRAMS USING CONTROL LYAPUNOV AND BARRIER FUNCTIONS</b> .....	3353
<i>Pan Zhao; Yanbing Mao; Chuyuan Tao; Naira Hovakimyan; Xiaofeng Wang</i>	
<b>A STACKELBERG SECURITY INVESTMENT GAME FOR VOLTAGE STABILITY OF POWER SYSTEMS</b> .....	3359
<i>Lu An; Aranya Chakraborty; Alexandra Duel-Hallen</i>	
<b>SPARSE NONLINEAR WIDE-AREA CONTROL USING PERTURBED KOOPMAN MODE ANALYSIS</b> .....	3365
<i>Marcos Alfredo Hernández-Ortega; Aranya Chakraborty; Arturo Román Messina</i>	
<b>OBSERVER-BASED EXCITATION CONTROL FOR TRANSIENT STABILIZATION OF THE SINGLE MACHINE INFINITE BUS SYSTEM</b> .....	3377
<i>Michael Rojas; Juan G. Rueda-Escobedo; Gerardo Espinosa-Pérez; Johannes Schiffer</i>	
<b>A FAST CERTIFICATE FOR POWER SYSTEM SMALL-SIGNAL STABILITY</b> .....	3383
<i>Amin Gholami; Xu Andy Sun</i>	
<b>FLEXIBLE REGULARIZATION APPROACHES FOR FAIRNESS IN DEEP LEARNING</b> .....	3389
<i>Matt Olfat; Yonatan Mintz</i>	
<b>AN ASSUME-GUARANTEE APPROACH TO SAMPLED-DATA QUANTIZED GLUCOSE CONTROL</b> .....	3401
<i>Ilaria Di Loreto; Alessandro Borri; Maria Domenica Di Benedetto</i>	
<b>ROBUST POWER AND CADENCE TRACKING ON A MOTORIZED FES CYCLE WITH AN UNKNOWN TIME-VARYING INPUT DELAY</b> .....	3407
<i>Brendon C. Allen; Kimberly J. Stubbs; Warren E. Dixon</i>	
<b>NON-ASYMPTOTIC CLOSED-LOOP SYSTEM IDENTIFICATION USING AUTOREGRESSIVE PROCESSES AND HANKEL MODEL REDUCTION</b> .....	3419
<i>Bruce Lee; Andrew Lamperski</i>	
<b>ONLINE ESTIMATION OF THE LOEWNER MATRICES</b> .....	3425
<i>Joel D. Simard; Alessandro Astolfi</i>	
<b>MULTI-ARRAY ELECTRON BEAM STABILIZATION USING BLOCK-CIRCULANT TRANSFORMATION AND GENERALIZED SINGULAR VALUE DECOMPOSITION</b> .....	3431
<i>Idris Kempf; Stephen R. Duncan; Paul J. Goulart; Guenther Rehm</i>	
<b>THE ENHANCED FINITE STATE PROJECTION ALGORITHM, USING CONDITIONAL MOMENT CLOSURE AND TIME-SCALE SEPARATION</b> .....	3437
<i>Ukjin Kwon; Mohammad Naghnaeian; Domitilla Del Vecchio</i>	
<b>SPARQ-SGD: EVENT-TRIGGERED AND COMPRESSED COMMUNICATION IN DECENTRALIZED OPTIMIZATION</b> .....	3449
<i>Navjot Singh; Deepesh Data; Jemin George; Suhas Diggavi</i>	
<b>WORST-CASE RISK QUANTIFICATION UNDER DISTRIBUTIONAL AMBIGUITY USING KERNEL MEAN EMBEDDING IN MOMENT PROBLEM</b> .....	3457
<i>Jia-Jie Zhu; Wittawat Jitkrittum; Moritz Diehl; Bernhard Schölkopf</i>	

<b>OPTIMAL SENSOR SELECTION FOR BINARY DETECTION BASED ON STOCHASTIC SUBMODULAR OPTIMIZATION</b> .....	3464
<i>João P. Hespanha; Denis Garagic</i>	
<b>DETERMINISTIC COMPLETION OF RECTANGULAR MATRICES WITH MEASUREMENT NOISE USING UNBALANCED RAMANUJAN BIGRAPHS</b> .....	3477
<i>Shantanu Prasad Burnwal; Mathukumalli Vidyasagar</i>	
<b>COOPERATING MODULAR GOAL SELECTION AND MOTION PLANNING FOR AUTONOMOUS DRIVING</b> .....	3481
<i>Heejin Ahn; Karl Berntorp; Stefano Di Cairano</i>	
<b>DECISION MAKING THROUGH STOCHASTIC MANEUVER VALIDATION FOR OVERTAKING ON COUNTRY ROADS</b> .....	3487
<i>Daniel Adelberger; Meng Wang; Luigi Del Re</i>	
<b>ESTIMATION OF ENGINE COMBUSTION INSTABILITIES FOR TRANSIENT OPERATION</b> .....	3494
<i>Maxime Jean; Thomas Leroy; Jeanne Redaud</i>	
<b>FLEXIBLE PREDICTIVE HYBRID POWERTRAIN MANAGEMENT WITH V2X INFORMATION</b> .....	3500
<i>Junpeng Deng; Florian Meier; Luigi Del Re</i>	
<b>OPTIMAL CONTROL OF BATTERY FAST CHARGING BASED-ON PONTRYAGIN'S MINIMUM PRINCIPLE</b> .....	3506
<i>Saehong Park; Donggun Lee; Hyoung Jun Ahn; Claire Tomlin; Scott Moura</i>	
<b>FIXED-TIME NASH EQUILIBRIUM SEEKING IN NON-COOPERATIVE GAMES</b> .....	3514
<i>Jorge I. Poveda; Miroslav Krstic; Tamer Basar</i>	
<b>GLOBAL OUTPUT-FEEDBACK FINITE-TIME STABILIZATION USING A SWITCHING TECHNIQUE</b> .....	3520
<i>Zhi-Liang Zhao; Pengjuan Ma; Sen Chen; Zhong-Ping Jiang</i>	
<b>PRACTICAL PRESCRIBED TIME TRACKING CONTROL WITH USER PRE-DETERMINABLE PRECISION FOR UNCERTAIN NONLINEAR SYSTEMS</b> .....	3526
<i>Ye Cao; Yongduan Song</i>	
<b>MODEL PREDICTIVE CONTROL FOR DISCRETE-TIME LINEAR SYSTEMS WITH FINITE-TIME CONVERGENCE</b> .....	3531
<i>Bing Zhu; Zongyu Zuo; Zhengtao Ding</i>	
<b>FIXED-TIME CONVERGENT CONSENSUS ALGORITHM OF NETWORKED NONHOLONOMIC MULTI-AGENT SYSTEMS</b> .....	3537
<i>Michael Defoort; Thierry Floquet; Wilfrid Perruquetti</i>	
<b>STABILITY OF GRADIENT LEARNING DYNAMICS IN CONTINUOUS GAMES: SCALAR ACTION SPACES</b> .....	3543
<i>Benjamin J. Chasnov; Daniel Calderone; Behçet Açikmese; Samuel A. Burden; Lillian J. Ratliff</i>	
<b>LEARNING PURE NASH EQUILIBRIUM IN SMART CHARGING GAMES</b> .....	3549
<i>B. Sohet; Y. Hayel; O. Beaude; A. Jeandin</i>	
<b>NASH EQUILIBRIUM SEEKING UNDER PARTIAL-DECISION INFORMATION OVER DIRECTED COMMUNICATION NETWORKS</b> .....	3555
<i>Mattia Bianchi; Sergio Grammatico</i>	
<b>MULTI-AGENT REINFORCEMENT LEARNING IN COURNOT GAMES</b> .....	3561
<i>Yuanyuan Shi; Baosen Zhang</i>	
<b>DYNAMIC ASSORTMENT WITH LIMITED INVENTORIES AND SET-DEPENDENT REVENUE FUNCTIONS</b> .....	3567
<i>S. Rasoul Etesami</i>	
<b>AN OPTIMAL MULTISTAGE STOCHASTIC GRADIENT METHOD FOR MINIMAX PROBLEMS</b> .....	3573
<i>Alireza Fallah; Asuman Ozdaglar; Sarath Pattathil</i>	
<b>TAMING CONVERGENCE FOR ASYNCHRONOUS STOCHASTIC GRADIENT DESCENT WITH UNBOUNDED DELAY IN NON-CONVEX LEARNING</b> .....	3580
<i>Xin Zhang; Jia Liu; Zhengyuan Zhu</i>	
<b>ON THE USE OF SET MEMBERSHIP THEORY FOR GLOBAL OPTIMIZATION OF BLACK-BOX FUNCTIONS</b> .....	3586
<i>Lorenzo Sabug; Fredy Ruiz; Lorenzo Fagiano</i>	
<b>SAFE BAYESIAN OPTIMIZATION UNDER UNKNOWN CONSTRAINTS</b> .....	3592
<i>Daniel Bergmann; Knut Graichen</i>	
<b>A CONVERGENCE-PRESERVING DATA INTEGRITY ATTACK ON DISTRIBUTED OPTIMIZATION USING LOCAL INFORMATION</b> .....	3598
<i>Tie Ding; Qianwen Xu; Shanying Zhu; Xinning Guan</i>	
<b>EXPERT SELECTION IN HIGH-DIMENSIONAL MARKOV DECISION PROCESSES</b> .....	3604
<i>Vicenç Rubies-Royo; Eric Mazumdar; Roy Dong; Claire Tomlin; S. Shankar Sastry</i>	
<b>TRIGGERED MEASUREMENTS IN MARKOV PROCESSES FOR ENTROPY-CONSTRAINED STATE ESTIMATION WITH APPLICATION TO PRECISION AGRICULTURE</b> .....	3611
<i>Nan Li; Zhaojian Li; Liang Dong; Anouck Girard; Ilya Kolmanovskiy; Renfu Lu</i>	
<b>FINITE TIME GUARANTEES FOR CONTINUOUS STATE MDPS WITH GENERATIVE MODEL</b> .....	3617
<i>Hiteshi Sharma; Rahul Jain</i>	
<b>CENSORED MARKOV DECISION PROCESSES: A FRAMEWORK FOR SAFE REINFORCEMENT LEARNING IN COLLABORATION WITH EXTERNAL SYSTEMS</b> .....	3623
<i>Masahiro Kohjima; Masami Takahashi; Hiroyuki Toda</i>	

<b>GT-SAGA: A FAST INCREMENTAL GRADIENT METHOD FOR DECENTRALIZED FINITE-SUM MINIMIZATION</b> .....	3637
<i>Ran Xin; Boyue Li; Soumya Kar; Usman A. Khan</i>	
<b>LINEAR CONVERGENCE FOR DISTRIBUTED OPTIMIZATION WITHOUT STRONG CONVEXITY</b> .....	3643
<i>Xinlei Yi; Shengjun Zhang; Tao Yang; Tianyou Chai; Karl H. Johansson</i>	
<b>ZEROTH-ORDER FEEDBACK OPTIMIZATION FOR COOPERATIVE MULTI-AGENT SYSTEMS</b> .....	3649
<i>Yujie Tang; Zhaolin Ren; Na Li</i>	
<b>A DISTRIBUTED PROXIMAL PRIMAL-DUAL ALGORITHM FOR NONSMOOTH OPTIMIZATION WITH COUPLING CONSTRAINTS</b> .....	3657
<i>Xuyang Wu; He Wang; Jie Lu</i>	
<b>TOWARDS TOTALLY ASYNCHRONOUS PRIMAL-DUAL CONVEX OPTIMIZATION IN BLOCKS</b> .....	3663
<i>Katherine R. Hendrickson; Matthew T. Hale</i>	
<b>CONSENSUS PROBLEMS ON CLUSTERED NETWORKS</b> .....	3675
<i>Giulia De Pasquale; Maria Elena Valcher</i>	
<b>SPATIAL PROPERTIES OF A MIXED LINEAR-NONLINEAR MODEL FOR OPINION FORMATION IN NETWORKS</b> .....	3681
<i>Subir Sarker; Sandip Roy</i>	
<b>EXPRESSED AND PRIVATE OPINION DYNAMICS ON INFLUENCE NETWORKS WITH ASYNCHRONOUS UPDATING</b> .....	3687
<i>Weiguo Xia; Hong Liang; Mengbin Ye</i>	
<b>CONTROL BARRIER FUNCTIONS FOR UNKNOWN NONLINEAR SYSTEMS USING GAUSSIAN PROCESSES</b> .....	3699
<i>Pushpak Jagtap; George J. Pappas; Majid Zamani</i>	
<b>A CONVEX APPROACH TO ROBUST LQR</b> .....	3705
<i>Anna Scampicchio; Gianluigi Pillonetto</i>	
<b>LEARNING CONTROL BARRIER FUNCTIONS FROM EXPERT DEMONSTRATIONS</b> .....	3717
<i>Alexander Robey; Haimin Hu; Lars Lindemann; Hanwen Zhang; Dimos V. Dimarogonas; Stephen Tu; Nikolai Matni</i>	
<b>ON THE ROBUSTNESS OF EQUILIBRIA IN GENERALIZED AGGREGATIVE GAMES</b> .....	3725
<i>Filippo Fabiani; Kostas Margellos; Paul J. Goulart</i>	
<b>SAFETY-CRITICAL ONLINE CONTROL WITH ADVERSARIAL DISTURBANCES</b> .....	3731
<i>Bhaskar Ramasubramanian; Baicen Xiao; Linda Bushnell; Radha Poovendran</i>	
<b>ITERATIVE LEARNING CONTROL FOR REGION TO REGION TRACKING</b> .....	3739
<i>Bing Chu; David H. Owens</i>	
<b>DISTRIBUTED ITERATIVE LEARNING CONTROL FOR CONSTRAINED CONSENSUS TRACKING PROBLEM</b> .....	3745
<i>Bin Chen; Bing Chu; Hua Geng</i>	
<b>ZERO-ORDER OPTIMIZATION-BASED ITERATIVE LEARNING CONTROL</b> .....	3751
<i>Katrin Baumgärtner; Moritz Diehl</i>	
<b>UNDETECTABLE CYBER ATTACKS ON COMMUNICATION LINKS IN MULTI-AGENT CYBER-PHYSICAL SYSTEMS</b> .....	3764
<i>Mahdi Taheri; Khashayar Khorasani; Iman Shames; Nader Meskin</i>	
<b>A NASH EQUILIBRIUM-BASED MOVING TARGET DEFENSE AGAINST STEALTHY SENSOR ATTACKS</b> .....	3772
<i>David Umsonst; Serkan Saritas; Henrik Sandberg</i>	
<b>DYNAMIC RESILIENT NETWORK GAMES CONSIDERING CONNECTIVITY</b> .....	3779
<i>Yurid Nugraha; Ahmet Cetinkaya; Tomohisa Hayakawa; Hideaki Ishii; Quanyan Zhu</i>	
<b>PRIVACY-PRESERVING RESILIENCE OF CYBER-PHYSICAL SYSTEMS TO ADVERSARIES</b> .....	3785
<i>Bhaskar Ramasubramanian; Luyao Niu; Andrew Clark; Linda Bushnell; Radha Poovendran</i>	
<b>COVARIANCE-ROBUST DYNAMIC WATERMARKING</b> .....	3793
<i>Matt Olfat; Stephen Sloan; Pedro Hespanhol; Matt Porter; Ram Vasudevan; Anil Aswani</i>	
<b>FINITE DATA-RATE FEEDBACK STABILIZATION OF CONTINUOUS-TIME SWITCHED LINEAR SYSTEMS WITH UNKNOWN SWITCHING SIGNAL</b> .....	3823
<i>Guillaume O. Berger; Raphaël M. Jungers</i>	
<b>DATA-DRIVEN SYSTEM IDENTIFICATION OF LINEAR QUANTUM SYSTEMS COUPLED TO TIME-VARYING COHERENT INPUTS</b> .....	3829
<i>Hendra I. Nurdin; Nina H. Amini; Jiayin Chen</i>	
<b>A SYSTEMS THEORY APPROACH TO THE SYNTHESIS OF MINIMUM NOISE NON-RECIPROCAL PHASE-INSENSITIVE QUANTUM AMPLIFIERS</b> .....	3836
<i>Ian R. Petersen; Matthew R. James; Valery Ugrinovskii; Naoki Yamamoto</i>	
<b>ON THE ROBUSTNESS OF STABILIZING FEEDBACKS FOR QUANTUM SPIN-<math>\frac{1}{2}</math> SYSTEMS</b> .....	3842
<i>Weichao Liang; Nina H. Amini; Paolo Mason</i>	
<b>CONTINUOUS MEASUREMENT AND FEEDBACK CONTROL FOR ENHANCEMENT OF QUANTUM SYNCHRONIZATION</b> .....	3848
<i>Yuzuru Kato; Hiroya Nakao</i>	
<b>WHEN DO ADDITIONAL QUANTUM NOISES AFFECT CONTROLLER PERFORMANCE?</b> .....	3855
<i>Rebecca Ty Thien; Shanon L. Vuglar; Ian R. Petersen</i>	
<b>RISK-AWARE CONTROL AND GAMES IN ENGINEERING</b> .....	3860
<i>Julian Barreiro-Gomez; Hamidou Tembine; Leonardo Stella; Dario Bauso; Patrizio Colaneri</i>	
<b>ON INTERVAL PREDICTION OF COVID-19 DEVELOPMENT IN FRANCE BASED ON A SEIR EPIDEMIC MODEL</b> .....	3883
<i>Denis Efimov; Rosane Ushirobira</i>	

<b>A MODIFIED SIR MODEL FOR THE COVID-19 CONTAGION IN ITALY</b> .....	3889
<i>Giuseppe C. Calafiore; Carlo Novara; Corrado Possieri</i>	
<b>VISUOMOTOR ADAPTATION IS A DISTURBANCE REJECTION PROBLEM</b> .....	3895
<i>Ahmad A. Gawad; Mireille E. Broucke</i>	
<b>VARIANCE BOUNDS FOR A CLASS OF BIOCHEMICAL REACTIONS WITH BURSTS USING A DISCRETE EXPANSION</b> .....	3907
<i>Giovanni Pugliese Carratelli; Ioannis Lestas</i>	
<b>ENERGY SHAPING CONTROL OF A CYBEROCTOPUS SOFT ARM</b> .....	3913
<i>Heng-Sheng Chang; Udit Halder; Chia-Hsien Shih; Arman Tekinalp; Tejaswin Parthasarathy; Ekaterina Gribkova; Girish Chowdhary; Rhanor Gillette; Mattia Gazzola; Prashant G. Mehta</i>	
<b>DATA CALIBRATION AND QUASI-LPV UNKNOWN INPUT OBSERVER: POWERED TWO-WHEELED VEHICLE</b> .....	3921
<i>M. Fouka; L. Nehaoua; H. Arioui</i>	
<b>Observer DESIGN FOR SINGULAR NONLINEAR PARAMETER-VARYING SYSTEM</b> .....	3927
<i>Manh-Hung Do; Damien Koenig; Didier Theilliol</i>	
<b>DATA-DRIVEN CONTROL OF LINEAR TIME-VARYING SYSTEMS</b> .....	3939
<i>Benita Nortmann; Thulasi Mylvaganam</i>	
<b>A RECURSIVE APPROACH FOR SET-MEMBERSHIP EIV IDENTIFICATION OF LTV SYSTEMS WITH BOUNDED VARIATION</b> .....	3951
<i>V. Cerone; S. M. Fosson; D. Regruto; T. Abdalla</i>	
<b>NEW LMI CHARACTERIZATIONS FOR <math>H_2</math>-NORM GUARANTEED COST COMPUTATION OF LINEAR SYSTEMS WITH POLYTOPIC UNCERTAINTIES</b> .....	3957
<i>Cheng Hu; Imad M. Jaimoukha</i>	
<b>JOINT SYNTHESIS OF ROBUST DYNAMIC STATE FEEDBACK AND DYNAMIC DISTURBANCE FEED-FORWARD FOR UNCERTAIN SYSTEMS</b> .....	3963
<i>Hakan Kroglu</i>	
<b>MAXIMUM HANDS-OFF FEEDBACK CONTROL FOR FINITE-TIME STABILIZATION</b> .....	3969
<i>Y. Kumar; S. Srikant; M. Nagahara; D. Chatterjee; D. E. Quevedo</i>	
<b>ROBUST BOUNDARY CONTROL OF A DIFFUSION SYSTEM: AN INTEGRAL SLIDING MODE CONTROL APPROACH</b> .....	3975
<i>Stefan Koch; Richard Seeber; Martin Horn</i>	
<b>NON-CHATTERING DISCRETE DIFFERENTIATORS BASED ON SLIDING MODES</b> .....	3987
<i>Avi Hanan; Adam Jbara; Arie Levant</i>	
<b>BACKSTEPPING-INDUCED INDIRECT ADAPTIVE SLIDING MODE CONTROL FOR SECOND ORDER SYSTEMS</b> .....	3993
<i>Lars Watermann; Markus Reichhartinger; Johann Reger</i>	
<b>A SELF-TUNING FAST TERMINAL SMC DESIGN FOR UNCERTAIN CHAOTIC SYSTEMS WITH EXTERNAL DISTURBANCES</b> .....	3999
<i>Saleh Mobayen; Afef Fekih</i>	
<b>BEARING-ONLY FORMATION CONTROL UNDER PERSISTENCE OF EXCITATION</b> .....	4011
<i>Zhiqi Tang; Rita Cunha; Tarek Hamel; Carlos Silvestre</i>	
<b>DISTRIBUTED FORMATION CONTROL OF MULTI-ROBOT SYSTEMS: A FIXED-TIME BEHAVIORAL APPROACH</b> .....	4017
<i>Ning Zhou; Xiaodong Cheng; Yuanqing Xia; Yanjun Liu</i>	
<b>FURTHER RESULTS ON LEADER-FOLLOWER MULTI-AGENT FORMATION CONTROL WITH PRESCRIBED PERFORMANCE GUARANTEES</b> .....	4023
<i>Fei Chen; Dimos V. Dimarogonas</i>	
<b>ROBUST FORMATION CONTROL OF TRAIN PLATOONS FOR INTERVAL MAINTAINING</b> .....	4031
<i>Chunyu Li; Jianan Wang; Jiayuan Shan; Alexander Lanzon; Ian R. Petersen</i>	
<b>MODEL-FREE ADAPTIVE LEARNING FORMATION CONTROL OF NONLINEAR NON-AFFINE MULTI-AGENT SYSTEMS</b> .....	4037
<i>Xian Yu; Zhongsheng Hou; Marios M. Polycarpou</i>	
<b>FORMATION CONTROL USING OPTIMAL TIME MULTIPLEXING</b> .....	4055
<i>Harsh Oza; Ravi Banavar; Sukumar Srikant; I. C. Morarescu</i>	
<b>LINEAR DIFFERENTIAL GAMES FOR COOPERATIVE BEHAVIOR PLANNING OF AUTONOMOUS VEHICLES USING MIXED-INTEGER PROGRAMMING</b> .....	4060
<i>Tobias Kessler; Klemens Esterle; Alois Knoll</i>	
<b>ON PROBABILISTIC COMPLETENESS OF THE GENERALIZED SHAPE EXPANSION-BASED MOTION PLANNING ALGORITHM</b> .....	4067
<i>Adhvaith Ramkumar; Vrushabh Zinage; Satadal Ghosh</i>	
<b>A HAMILTON-JACOBI FORMULATION FOR TIME-OPTIMAL PATHS OF RECTANGULAR NONHOLONOMIC VEHICLES</b> .....	4073
<i>Christian Parkinson; Andrea L. Bertozzi; Stanley J. Osher</i>	
<b>A RECEDING HORIZON MULTI-OBJECTIVE PLANNER FOR AUTONOMOUS SURFACE VEHICLES IN URBAN WATERWAYS</b> .....	4085
<i>Tixiao Shan; Wei Wang; Brendan Englot; Carlo Ratti; Daniela Rus</i>	
<b>COVERAGE PATH PLANNING WITH PROXIMAL POLICY OPTIMIZATION IN A GRID-BASED ENVIRONMENT</b> .....	4099
<i>Aleksandr Ianenko; Alexander Artamonov; Georgii Sarapulov; Alexey Safaraleev; Sergey Bogomolov; Dong-Ki Noh</i>	

<b>FAST NUMERICAL SOLUTION OF OPTIMAL CONTROL PROBLEMS FOR SWITCHED SYSTEMS: AN APPLICATION TO PATH PLANNING</b> .....	4105
<i>Mattia Laurini; Luca Consolini; Marco Locatelli</i>	
<b>PARTICLE FILTERING ON THE STIEFEL MANIFOLD WITH OPTIMAL TRANSPORT</b> .....	4111
<i>Zhichao Wang; Victor Solo</i>	
<b>ON THE CRAMER-RAO BOUND IN RIEMANNIAN MANIFOLDS WITH APPLICATION TO SO(3)</b> .....	4117
<i>Victor Solo; Gregory S. Chirikjian</i>	
<b>COMBINING DEEP REINFORCEMENT LEARNING AND LOCAL CONTROL FOR THE ACROBOT SWING-UP AND BALANCE TASK</b> .....	4129
<i>Sean Gillen; Marco Molnar; Katie Byl</i>	
<b>THE SOFT INVERTED PENDULUM WITH AFFINE CURVATURE</b> .....	4135
<i>Cosimo Della Santina</i>	
<b>TORQUE CONTROL IN POSITION-CONTROLLED ROBOTS USING AN INVERSE DYNAMIC TASK</b> .....	4143
<i>Gabriel García; Emanuel Muñoz-Panduro; Oscar E. Ramos</i>	
<b>ON TIME-OPTIMAL CONTROL OF ELASTIC JOINTS UNDER INPUT CONSTRAINTS</b> .....	4149
<i>Manuel Keppeler; Alessandro De Luca</i>	
<b>TRON: A FAST SOLVER FOR TRAJECTORY OPTIMIZATION WITH NON-SMOOTH COST FUNCTIONS</b> .....	4157
<i>Anirudh Vemula; J. Andrew Bagnell</i>	
<b>ADAPTIVE PARAMETER ESTIMATION-BASED OBSERVER DESIGN FOR NONLINEAR SYSTEMS</b> .....	4170
<i>Yashan Xing; Jing Na; Ramon Costa-Castelló; Guanbin Gao</i>	
<b>RELATIVE POSE ESTIMATION FROM BEARING MEASUREMENTS OF THREE UNKNOWN SOURCE POINTS</b> .....	4176
<i>Minh-Duc Hua; Simone De Marco; Tarek Hamel; Randal W. Beard</i>	
<b>HIGH-GAIN NONLINEAR OBSERVER USING SYSTEM STATE AUGMENTATION</b> .....	4182
<i>D. Bouhadjra; A. Zemouche; A. Alessandri; P. Bagnnerini</i>	
<b>A MINIMUM ENERGY FILTER FOR LOCALISATION OF AN UNMANNED AERIAL VEHICLE</b> .....	4188
<i>Jack Henderson; Mohammad Zamani; Robert Mahony; Jochen Trumpf</i>	
<b>EQUIVARIANT SYSTEMS THEORY AND OBSERVER DESIGN FOR SECOND ORDER KINEMATIC SYSTEMS ON MATRIX LIE GROUPS</b> .....	4194
<i>Yonhon Ng; Pieter Van Goor; Tarek Hamel; Robert Mahony</i>	
<b>SEMI-GLOBAL STABILIZATION OF A SINGLE INPUT SINGLE OUTPUT NONLINEAR SYSTEM BY LINEAR LOW-AND-HIGH GAIN OUTPUT FEEDBACK</b> .....	4200
<i>Zongli Lin</i>	
<b>OBSERVING THE SLOW STATES OF GENERAL SINGULARLY PERTURBED SYSTEMS</b> .....	4206
<i>Mohammad Deghat; Dragan Nešić; Andrew R. Teel; Chris Manzie</i>	
<b>ON REDUCING THE COHERENCE IN SPARSE SYSTEM IDENTIFICATION</b> .....	4224
<i>Javad Parsa; Håkan Hjalmarsson</i>	
<b>HIGH-RESOLUTION MODELING OF THE FASTEST FIRST-ORDER OPTIMIZATION METHOD FOR STRONGLY CONVEX FUNCTIONS</b> .....	4237
<i>Boya Sun; Jemin George; Solmaz Kia</i>	
<b>A DYNAMICAL SYSTEM PERSPECTIVE FOR ESCAPING SHARP LOCAL MINIMA IN EQUALITY CONSTRAINED OPTIMIZATION PROBLEMS</b> .....	4255
<i>Han Feng; Haixiang Zhang; Javad Lavaei</i>	
<b>ON DESIGN OF STABILIZING CONTROLLERS USING COMPRESSION OPERATORS FOR LINEAR SYSTEMS WITH TIME-VARYING AND TIME-INVARIANT STOCHASTIC PARAMETERS</b> .....	4262
<i>Yuji Ito; Kenji Fujimoto</i>	
<b>FINITE-HORIZON CONTROL OF NONLINEAR DISCRETE-TIME SYSTEMS WITH TERMINAL COST OF WASSERSTEIN DISTANCE</b> .....	4268
<i>Kenta Hoshino</i>	
<b>HIGH CONFIDENCE SETS FOR TRAJECTORIES OF STOCHASTIC TIME-VARYING NONLINEAR SYSTEMS</b> .....	4275
<i>Eric Mazumdar; Tyler Westenbroek; Michael I. Jordan; S. Shankar Sastry</i>	
<b>ANALYSIS OF THE STABILITY OF DISCRETE-TIME MARKOV JUMP LINEAR SINGULAR SYSTEMS</b> .....	4281
<i>Jorge Enrique Mayta Guillermo; Maritza Lourdes Moreno Capristano</i>	
<b>LEARNING-BASED DISTRIBUTIONALLY ROBUST MODEL PREDICTIVE CONTROL OF MARKOVIAN SWITCHING SYSTEMS WITH GUARANTEED STABILITY AND RECURSIVE FEASIBILITY</b> .....	4287
<i>Mathijs Schuurmans; Panagiotis Patrinos</i>	
<b>SPECTRAL RANK, FEEDBACK, CAUSALITY AND THE INDIRECT METHOD FOR CARMA IDENTIFICATION</b> .....	4299
<i>Wenqi Cao; Anders Lindquist; Giorgio Picci</i>	
<b>A NOTE ON THE ITÔ AND STRATONOVICH STOCHASTIC RELATIVE DEGREE AND NORMAL FORM</b> .....	4306
<i>Alberto Mellone; Giordano Scarcioiti</i>	
<b>CONSENSUS+INNOVATIONS DISTRIBUTED ESTIMATION WITH RANDOM NETWORK GRAPHS, OBSERVATION MATRICES AND NOISES</b> .....	4318
<i>Xiwei Zhang; Tao Li; Yu Gu</i>	
<b>REACHABLE SET ESTIMATION OF SWITCHED GENETIC REGULATORY NETWORKS WITH MIXED DELAYS AND BOUNDED DISTURBANCES</b> .....	4324
<i>Xian Zhang; Lina Zhang; Yu Xue; Xin Wang; Mouquan Shen; Jun-Wei Zhu</i>	
<b>FINITE-HORIZON ANISOTROPIC ESTIMATOR DESIGN IN SENSOR NETWORKS</b> .....	4330
<i>Arkadiy Yu. Kustov; Alexander V. Yurchenkov</i>	

<b>AN IMPROVED PARADIGM FOR ROBUST OPTIMAL FILTERING OVER LOSSY NETWORKS</b> .....	4336
<i>Yu Feng; Xiang Chen; Ying Tan</i>	
<b>LOCAL NETWORK IDENTIFIABILITY WITH PARTIAL EXCITATION AND MEASUREMENT</b> .....	4342
<i>Antoine Legat; Julien M. Hendrickx</i>	
<b>A REGULARIZED KERNEL-BASED METHOD FOR LEARNING A MODULE IN A DYNAMIC NETWORK WITH CORRELATED NOISE</b> .....	4348
<i>Venkatakrishnan C. Rajagopal; Karthik R. Ramaswamy; Paul M. J. Van Den Hof</i>	
<b>PATH-BASED DATA-INFORMATIVITY CONDITIONS FOR SINGLE MODULE IDENTIFICATION IN DYNAMIC NETWORKS</b> .....	4354
<i>Paul M. J. Van Den Hof; Karthik R. Ramaswamy</i>	
<b>DISTRIBUTED CONTROL OF MOBILE LTI AND LPV AGENTS USING INDUCED <math>L_2</math> TO <math>L_\infty</math> NORMS</b> .....	4360
<i>Christian Hesse; Adwait Datar; Herbert Werner</i>	
<b>DISTRIBUTED LEARNING MODEL PREDICTIVE CONTROL FOR LINEAR SYSTEMS</b> .....	4366
<i>Yvonne R. Stürz; Edward L. Zhu; Ugo Rosolia; Karl H. Johansson; Francesco Borrelli</i>	
<b>DISTRIBUTED CONSENSUS OF LINEAR MULTI-AGENT SYSTEMS WITH NONIDENTICAL RANDOM PACKET LOSS</b> .....	4374
<i>Ji Ma; Xiao Yu; Weiyao Lan</i>	
<b>DISTRIBUTED FINITE-TIME ALGORITHM FOR A CLASS OF QUADRATIC OPTIMIZATION PROBLEMS WITH TIME-VARYING LINEAR CONSTRAINTS</b> .....	4380
<i>Matteo Santilli; Gabriele Oliva; Andrea Gasparri</i>	
<b>DISTRIBUTED OPTIMIZATION WITH ALADIN FOR NON-CONVEX OPTIMAL CONTROL PROBLEMS</b> .....	4387
<i>Daniel Burk; Andreas Völz; Knut Graichen</i>	
<b>ROBUST EVENT-TRIGGERED DISTRIBUTED AVERAGE TRACKING FOR DOUBLE-INTEGRATOR AGENTS WITHOUT VELOCITY MEASUREMENTS</b> .....	4393
<i>Yong Ding; Wei Ren; Yu Zhao</i>	
<b>A FIXED-TIME CONVERGENT DISTRIBUTED ALGORITHM FOR STRONGLY CONVEX FUNCTIONS IN A TIME-VARYING NETWORK</b> .....	4405
<i>Kunal Garg; Mayank Baranwal; Dimitra Panagou</i>	
<b>CONTROLLING PDES WITH MOBILE ACTUATORS CONSTRAINED OVER TIME-VARYING REACHABILITY SETS</b> .....	4411
<i>Michael A. Demetriou</i>	
<b>A DIFFERENTIAL-DELAY ESTIMATOR FOR THERMOACOUSTIC OSCILLATIONS IN A RIJKE TUBE USING IN-DOMAIN PRESSURE MEASUREMENTS</b> .....	4417
<i>Jean Auriol; Gustavo Artur De Andrade; Rafael Vazquez</i>	
<b>FINITE-DIMENSIONAL CONTROL OF THE KURAMOTO-SIVASHINSKY EQUATION UNDER POINT MEASUREMENT AND ACTUATION</b> .....	4423
<i>Rami Katz; Emilia Fridman</i>	
<b>HOMOGENEOUS OBSERVERS FOR PROJECTED QUADRATIC PARTIAL DIFFERENTIAL EQUATIONS</b> .....	4429
<i>Sergiy Zhuk; Andrey Polyakov</i>	
<b>LATERAL VIBRATION SUPPRESSION OF A DISTURBED MINING CABLE ELEVATOR WITH FLEXIBLE GUIDEWAYS</b> .....	4436
<i>Ji Wang; Shu-Xia Tang; Miroslav Krstic</i>	
<b>SAMPLED-DATA BASED FAILURE RATE IDENTIFICATION FOR A MULTI-STATE REPARABLE SYSTEM</b> .....	4442
<i>Weiwei Hu; Jun Liu</i>	
<b>IMPROVED OBSERVER DESIGN FOR HEAT EQUATION WITH CONSTANT MEASUREMENT DELAY VIA LEGENDRE POLYNOMIALS</b> .....	4448
<i>Jin Zhang; Wen Kang; Emilia Fridman; Alexandre Sewret</i>	
<b>STEADY-STATE TO STEADY-STATE TRANSFER OF PDES USING SEMI-DISCRETIZATION AND FLATNESS</b> .....	4454
<i>Soham Chatterjee; Vivek Natarajan</i>	
<b>SECURE-BY-CONSTRUCTION OPTIMAL PATH PLANNING FOR LINEAR TEMPORAL LOGIC TASKS</b> .....	4460
<i>Shuo Yang; Xiang Yin; Shaoyuan Li; Majid Zamani</i>	
<b>ANALYSIS OF BEHAVIOURAL PROPERTIES OF BOUNDED PETRI NETS WITH A SEMI-STRUCTURAL APPROACH</b> .....	4467
<i>Chao Gu; Zhiwu Li; Alessandro Giua</i>	
<b>MARKING DIAGNOSIS IN LABELED PETRI NETS USING BASIS DIAGNOSERS</b> .....	4479
<i>Z. Ma; Yin Xiang; Zhiwu Li</i>	
<b>DETERMINING OPTIMAL CONTROL SEQUENCES FOR RECONFIGURATION IN PETRI NETS USING COST TREES</b> .....	4485
<i>Z. Ma; Jiafeng Zhang</i>	
<b>OPTIMAL STABILIZATION CONTROL OF CONNECTED VEHICLE SYSTEMS</b> .....	4492
<i>Yan Wang; Rong Su</i>	
<b>DISTRIBUTED OPTIMIZATION FOR LINEAR MULTI-AGENT SYSTEMS SUBJECT TO DOS ATTACKS</b> .....	4498
<i>Dan Liu; Rong Su</i>	
<b>ON ATTACK MITIGATION IN SUPERVISORY CONTROL SYSTEMS: A TOLERANT CONTROL APPROACH</b> .....	4504
<i>Jingshi Yao; Xiang Yin; Shaoyuan Li</i>	
<b>STABILIZATION OF POSITIVE NONLINEAR SYSTEMS ON TIME SCALES</b> .....	4511
<i>Zbigniew Bartosiewicz</i>	

<b>VARIATION DIMINISHING HANKEL OPERATORS</b> .....	4529
<i>Christian Grussler; Rodolphe Sepulchre</i>	
<b>FROM CONSTRAINT SATISFACTIONS TO PERIODIC POSITIVE INVARIANCE FOR DISCRETE-TIME SYSTEMS</b> .....	4547
<i>Martin Soyer; Sorin Olaru; Zhou Fang</i>	
<b>COMPUTING ROBUSTLY FORWARD INVARIANT SETS FOR MIXED-MONOTONE SYSTEMS</b> .....	4553
<i>Matthew Abate; Samuel Coogan</i>	
<b>LMI-BASED OUTPUT FEEDBACK CONTROL OF SINGULARLY PERTURBED SYSTEMS WITH GUARANTEED COST</b> .....	4566
<i>Eduardo S. Tognetti; Tais R. Calliero; Irinel-Constantin Morarescu; Jamal Daafouz</i>	
<b>DATA-DRIVEN INTERNAL MODEL CONTROL OF SECOND-ORDER DISCRETE VOLTERRA SYSTEMS</b> .....	4572
<i>Juan G. Rueda-Escobedo; Johannes Schiffer</i>	
<b>SUFFICIENT CONDITIONS FOR OUTPUT REFERENCE TRACKING FOR NONLINEAR SYSTEMS: A CONTRACTIVE APPROACH</b> .....	4580
<i>Mattia Giaccagli; Daniele Astolfi; Vincent Andrieu; Lorenzo Marconi</i>	
<b>COOPERATIVE GLOBAL ROBUST PRACTICAL OUTPUT REGULATION FOR OUTPUT FEEDBACK NONLINEAR MULTI-AGENT SYSTEMS BY DISTRIBUTED EVENT-TRIGGERED CONTROL</b> .....	4592
<i>Wei Liu; Jie Huang</i>	
<b>IMPLICIT SOLUTIONS TO CONSTRAINED NONLINEAR OUTPUT REGULATION USING MPC</b> .....	4604
<i>Johannes Köhler; Matthias A. Müller; Frank Allgöwer</i>	
<b>NOISE PROPAGATION IN METABOLIC PATHWAYS: THE ROLE OF GROWTH-MEDIATED FEEDBACK</b> .....	4610
<i>A. Borri; P. Palumbo; A. Singh</i>	
<b>STOCHASTIC FILTERS BASED ON HYBRID APPROXIMATIONS OF MULTISCALE STOCHASTIC REACTION NETWORKS</b> .....	4616
<i>Zhou Fang; Ankit Gupta; Mustafa Khammash</i>	
<b>LAGUERRE DOMAIN ESTIMATION OF AN INPUT IMPULSE TRAIN TO A CONTINUOUS LINEAR TIME-INVARIANT SYSTEM</b> .....	4622
<i>Håkan Runvik; Alexander Medvedev</i>	
<b>HYBRID SYSTEMS FRAMEWORK FOR MODELING HOST-PARASITOID POPULATION DYNAMICS</b> .....	4628
<i>Abhyudai Singh; Brooks Emerick</i>	
<b>CELLULAR IMMUNOTHERAPY TREATMENT SCHEDULING TO ADDRESS ANTIGEN ESCAPE</b> .....	4634
<i>Natalie Dullerud; Vanessa D. Jonsson</i>	
<b>LMI-BASED STABILITY ANALYSIS AND CONTROLLER DESIGN FOR PERIODIC LINEAR TIME-VARYING SYSTEMS</b> .....	4640
<i>Mitsunori Sakai; Toru Asai; Ryo Ariizumi; Shun-Ichi Azuma</i>	
<b>UNIFORM ASYMPTOTIC STABILIZATION OF AFFINE PERIODIC DISCRETE-TIME SYSTEMS</b> .....	4646
<i>Adam Czornik; Evgenii Makarov; Michal Niezabitowski; Svetlana Popova; Vasilii Zaitsev</i>	
<b>A CONTINUATION METHOD FOR COMPUTATION OF <math>H_\infty</math> GAINS OF LINEAR CONTINUOUS-TIME PERIODIC SYSTEMS</b> .....	4653
<i>Paul Rousse; John Hauser; Pierre-Loïc Garoche</i>	
<b>SUM-OF-NORMS MPC FOR LINEAR PERIODIC SYSTEMS WITH APPLICATION TO SPACECRAFT RENDEZVOUS</b> .....	4665
<i>Mirko Leomanni; Gianni Bianchini; Andrea Garulli; Renato Quarutto</i>	
<b>FEEDBACK-CONTROL BASED ADVERSARIAL ATTACKS ON RECURRENT NEURAL NETWORKS</b> .....	4677
<i>Shankar A. Deka; Dušan M. Stipanovic; Claire J. Tomlin</i>	
<b>THE ROLE OF REGULARIZATION IN OVERPARAMETERIZED NEURAL NETWORKS</b> .....	4683
<i>Siddhartha Satpathi; Harsh Gupta; Shiyu Liang; R. Srikant</i>	
<b>PRIVACY-PRESERVING DISTRIBUTED COORDINATION OF DISTRIBUTED ENERGY RESOURCES</b> .....	4689
<i>Madi Zholbaryssov; Christoforos N. Hadjicostis; Alejandro D. Dominguez-Garcia</i>	
<b>A NEW ENVELOPE FUNCTION FOR NONSMOOTH DC OPTIMIZATION</b> .....	4697
<i>Andreas Themelis; Ben Hermans; Panagiotis Patrinos</i>	
<b>ATTITUDE CONTROL AND REACHABILITY ANALYSIS FOR UNMANNED HELICOPTERS VIA THE ZONOTOPIC KALMAN FILTERING</b> .....	4703
<i>Hendra G. Harno; Jun Moon; Yoonsoo Kim</i>	
<b>OBSERVER-BASED ROBUST <math>H_\infty</math> FAULT-TOLERANT FLIGHT CONTROL: A DESIGN EXAMPLE AND PERFORMANCE ASSESSMENT</b> .....	4706
<i>Masayuki Sato; Andrés Marcos</i>	
<b>TOWARDS ADAPTIVE AUTOPILOTS FOR FIXED-WING UNMANNED AERIAL VEHICLES</b> .....	4724
<i>Simone Baldi; Spandan Roy; Kang Yang</i>	
<b>ATTITUDE CONSENSUS OF MULTIPLE RIGID BODY SYSTEMS BY OUTPUT BASED ADAPTIVE DISTRIBUTED OUTPUT OBSERVER</b> .....	4730
<i>He Cai; Jie Huang</i>	
<b>ON THE DESIGN OF A NOVEL CONTROL ALGORITHM AND COMMUNICATION STRUCTURE FOR DISCRETE-TIME MULTI-AGENT CONSENSUS SYSTEMS</b> .....	4736
<i>Sonja Stüdl; Yamin Yan; Maria M. Seron; Richard H. Middleton</i>	
<b>LEADER-FOLLOWING ALMOST OUTPUT CONSENSUS FOR LINEAR MULTI-AGENT SYSTEMS WITH DISTURBANCE-AFFECTED UNSTABLE ZERO DYNAMICS</b> .....	4742
<i>Tingyang Meng; Zongli Lin</i>	
<b>INTRINSIC FORMATION OF REGULAR POLYHEDRA: A DIFFERENTIAL GAME APPROACH</b> .....	4748
<i>Yibei Li; Xiaoming Hu</i>	

<b>FAULT-TOLERANT FORMATION TRACKING OF HETEROGENEOUS NONLINEAR MULTI-AGENT SYSTEMS WITH TIME-VARYING ACTUATOR FAULTS</b> .....	4754
<i>Zhi Feng; Guoqiang Hu</i>	
<b>ITERATIVE DATA-DRIVEN INFERENCE OF NONLINEARITY MEASURES VIA SUCCESSIVE GRAPH APPROXIMATION</b> .....	4760
<i>Tim Martin; Frank Allgöwer</i>	
<b>DATA-DRIVEN FILTERING FOR LINEAR SYSTEMS USING SET MEMBERSHIP MULTISTEP PREDICTORS</b> .....	4778
<i>Marco Lauricella; Lorenzo Fagiano</i>	
<b>ONLINE REGULATION OF UNSTABLE LINEAR SYSTEMS FROM A SINGLE TRAJECTORY</b> .....	4784
<i>Shahriar Talebi; Siavash Alemzadeh; Niyousha Rahimi; Mehran Mesbahi</i>	
<b>DEEP PPF: GAIN FUNCTION APPROXIMATION IN HIGH-DIMENSIONAL SETTING</b> .....	4790
<i>S. Yagiz Olmez; Amirhossein Toghvaei; Prashant G. Mehta</i>	
<b>NONLINEAR MATCHED FILTERS VIA CHEN–FLIESS SERIES</b> .....	4796
<i>W. Steven Gray</i>	
<b>SYMBOLIC-NUMERIC COMPUTATION OF POSTERIOR MEAN AND VARIANCE FOR A CLASS OF DISCRETE-TIME NONLINEAR STOCHASTIC SYSTEMS</b> .....	4814
<i>Tomoyuki Iori; Toshiyuki Ohtsuka</i>	
<b>A DIRECT METHOD FOR SOLVING INTEGRAL PENALTY TRANSCRIPTIONS OF OPTIMAL CONTROL PROBLEMS</b> .....	4822
<i>Martin P. Neuenhofen; Eric C. Kerrigan</i>	
<b>NEW PROXIMAL NEWTON-TYPE METHODS FOR CONVEX OPTIMIZATION</b> .....	4828
<i>Ilan Adler; Zhiyue T. Hu; Tianyi Lin</i>	
<b>GLOBAL EXPONENTIAL STABILITY OF PRIMAL-DUAL GRADIENT FLOW DYNAMICS BASED ON THE PROXIMAL AUGMENTED LAGRANGIAN: A LYAPUNOV-BASED APPROACH</b> .....	4836
<i>Dongsheng Ding; Mihailo R. Jovanovic</i>	
<b>WHY NOT BOTH? EXACT CONTINUOUS AND DISCRETE OPTIMIZATION WITH SUBMODULARITY</b> .....	4842
<i>Jonathan Bunton; Paulo Tabuada</i>	
<b>LOCAL OPTIMIZATION OF NONCONVEX MIXED-INTEGGER QUADRATICALLY CONSTRAINED QUADRATIC PROGRAMMING PROBLEMS</b> .....	4848
<i>Sixiong You; Ran Dai</i>	
<b>BOUNDED REALNESS FOR DISCRETE-TIME JUMP DESCRIPTOR SYSTEMS</b> .....	4854
<i>Chan-Eun Park; Poogyeon Park</i>	
<b>OPTIMALITY OF STATIONARY AND DETERMINISTIC POLICIES FOR ZERO-DELAY CODING OF <math>\mathbb{R}^D</math>-VALUED LINEAR MARKOV SOURCES WITH QUADRATIC COST</b> .....	4859
<i>Meysam Ghomi; Tamás Linder; Serdar Yüksel</i>	
<b>OPTIMAL LINEAR MEAN SQUARE FILTER AND AN ASSOCIATED STATIONARY FILTER FOR HIDDEN MARKOV CHAIN</b> .....	4865
<i>Fortià V. Vergés; Marcelo D. Fragoso</i>	
<b>FINITE-TIME ASYNCHRONOUS <math>H_\infty</math> NONFRAGILE CONTROL FOR MARKOV JUMP SYSTEMS WITH TIME-VARYING MODE DETECTION PROBABILITIES</b> .....	4871
<i>Feng Li; Wei Xing Zheng</i>	
<b>THE REDUCIBILITY OF REACHABLE SPACE FOR STRUCTURED HIDDEN MARKOV MODELS</b> .....	4877
<i>Man Zheng; Yoshito Ohta</i>	
<b>STABILITY OF DECENTRALIZED GRADIENT DESCENT IN OPEN MULTI-AGENT SYSTEMS</b> .....	4885
<i>Julien M. Hendrickx; Michael G. Rabbat</i>	
<b>ON THE CONVERGENCE OF CONSENSUS ALGORITHMS WITH MARKOVIAN NOISE AND GRADIENT BIAS</b> .....	4897
<i>Hoi-To Wai</i>	
<b>A LINEARLY CONVERGENT ALGORITHM FOR MULTI-AGENT QUASI-NONEXPANSIVE OPERATORS IN REAL HILBERT SPACES</b> .....	4903
<i>Xiuxian Li; Min Meng; Lihua Xie</i>	
<b>COMMUNITY DETECTION FOR GOSSIP DYNAMICS WITH STUBBORN AGENTS</b> .....	4915
<i>Yu Xing; Xingkang He; Haitao Fang; Karl H. Johansson</i>	
<b>MEAN FIELD SOCIAL OPTIMIZATION: FEEDBACK PERSON-BY-PERSON OPTIMALITY AND THE MASTER EQUATION</b> .....	4921
<i>Minyi Huang; Shuenn-Jyi Sheu; Li-Hsien Sun</i>	
<b>REINFORCEMENT LEARNING IN LINEAR QUADRATIC DEEP STRUCTURED TEAMS: GLOBAL CONVERGENCE OF POLICY GRADIENT METHODS</b> .....	4927
<i>Vida Fathi; Jalal Arabneydi; Amir G. Aghdam</i>	
<b>UNIFORM STRONG CONNECTIVITY IS NOT NECESSARY FOR NON-BAYESIAN SOCIAL LEARNING ON TIME-VARYING DIRECTED GRAPHS</b> .....	4933
<i>Rohit Parasnis; Massimo Franceschetti; Behrouz Touri</i>	
<b>LEARNING THEORY FOR ESTIMATION OF ANIMAL MOTION SUBMANIFOLDS</b> .....	4941
<i>Nathan Powell; Andrew J. Kurdila</i>	
<b>STABILITY AND FEASIBILITY OF NEURAL NETWORK-BASED CONTROLLERS VIA OUTPUT RANGE ANALYSIS</b> .....	4947
<i>Benjamin Karg; Sergio Lucia</i>	
<b>DIRECT DATA-DRIVEN DESIGN OF NEURAL REFERENCE GOVERNORS</b> .....	4955
<i>Daniele Masti; Valentina Breschi; Simone Formentin; Alberto Bemporad</i>	



<b>LEARNING NONLINEAR FEEDBACK CONTROLLERS FROM DATA VIA OPTIMAL POLICY SEARCH AND STOCHASTIC GRADIENT DESCENT .....</b>	<b>4961</b>
<i>Laura Ferrarotti; Alberto Bemporad</i>	
<b>A UNIFYING EVENT-TRIGGERED CONTROL FRAMEWORK BASED ON A HYBRID SMALL-GAIN THEOREM.....</b>	<b>4979</b>
<i>W. Wang; D. Nešić; R. Postoyan; W. P. M. H. Heemels</i>	
<b>TRAFFIC ABSTRACTIONS OF NONLINEAR HOMOGENEOUS EVENT-TRIGGERED CONTROL SYSTEMS.....</b>	<b>4991</b>
<i>Giannis Delimpaltadakis; Manuel Mazo</i>	
<b>EXPLOITING INFORMATION FOR DECENTRALIZED PERIODIC EVENT-TRIGGERED CONTROL .....</b>	<b>4999</b>
<i>Michael Hertneck; Frank Allgöwer</i>	
<b>AN APPROACH TO MINIMUM ATTENTION CONTROL BY SPARSE DERIVATIVE.....</b>	<b>5005</b>
<i>Masaaki Nagahara; Dragan Nešić</i>	
<b>SELF ATTACK DETECTION AND STATE ESTIMATION ALGORITHM IN DISTRIBUTED OBSERVER SYSTEM UNDER COMBINATION ATTACK.....</b>	<b>5011</b>
<i>Shotaro Sato; Toru Namerikawa; Zhihua Qu</i>	
<b>MEASURING TARGET PREDICTABILITY FOR OPTIMAL ENVIRONMENT DESIGN.....</b>	<b>5023</b>
<i>Melkior Ornik</i>	
<b>DETECTION OF BIASING NODES IN DISTRIBUTED DISCRETE TIME VARYING FILTER NETWORKS.....</b>	<b>5029</b>
<i>M. Zamani; V. Ugrinovskii</i>	
<b>A HIERARCHICAL ATTACK IDENTIFICATION METHOD FOR NONLINEAR SYSTEMS.....</b>	<b>5035</b>
<i>Sarah Braun; Sebastian Albrecht; Sergio Lucia</i>	
<b>A NEW RIEMANNIAN FRAMEWORK FOR EFFICIENT <math>\mathcal{H}_2</math>-OPTIMAL MODEL REDUCTION OF PORT-HAMILTONIAN SYSTEMS .....</b>	<b>5043</b>
<i>Tim Moser; Boris Lohmann</i>	
<b>STABILISATION OF A ROTATING BEAM CLAMPED ON A MOVING INERTIA WITH STRONG DISSIPATION FEEDBACK.....</b>	<b>5056</b>
<i>Andrea Mattioni; Yongxin Wu; Yann Le Gorrec; Hans Zwart</i>	
<b>STRUCTURE-PRESERVING SPATIAL DISCRETIZATION OF A TWO-FLUID MODEL .....</b>	<b>5062</b>
<i>H. Bansal; S. Weiland; L. Iapichino; W. H. A. Schilders; N. Van De Wouw</i>	
<b>MIXED MONOTONICITY FOR REACHABILITY AND SAFETY IN DYNAMICAL SYSTEMS .....</b>	<b>5074</b>
<i>Samuel Coogan</i>	
<b>SINGLE CELL TRACKING BASED ON VORONOI PARTITION VIA STABLE MATCHING .....</b>	<b>5086</b>
<i>Young Hwan Chang; Jeremy Linsley; Josh Lamstein; Jaslin Kalra; Irina Epstein; Mariya Barch; Kenneth Daily; Phil Synder; Larsson Omberg; Laura Heiser; Steve Finkbeiner</i>	
<b>DISSECT: DISENTANGLE SHARABLE CONTENT FOR MULTIMODAL INTEGRATION AND CROSSWISE-MAPPING.....</b>	<b>5092</b>
<i>Geoffrey Schau; Erik Burlingame; Young Hwan Chang</i>	
<b>CONTROL OF NEGATIVE FEEDBACK LOOPS IN GENETIC NETWORKS.....</b>	<b>5098</b>
<i>Ismail Belgacem; Jean-Luc Gouzé; Roderick Edwards</i>	
<b>SEQUESTRATION AND DELAYS ENABLE THE SYNTHESIS OF A MOLECULAR DERIVATIVE OPERATOR.....</b>	<b>5106</b>
<i>Christian Cuba Samaniego; Jongmin Kim; Elisa Franco</i>	
<b>TIME SERIES IDENTIFICATION IN THE OSCILLATORY CALCIUM MODELS: THE 0-1 TEST APPROACH WITH TWO VARYING PARAMETERS.....</b>	<b>5125</b>
<i>Wieslaw Marszalek; Maciej Walczak; Jan Sadecki</i>	
<b>A GENERALIZATION OF THE SECANT CONDITION FOR STABILITY OF INTERCONNECTED NETWORK OF FRACTIONAL-ORDER SYSTEMS .....</b>	<b>5133</b>
<i>Milad Siami</i>	
<b>ADAPTIVE PARAMETER TUNING FOR REACHABILITY ANALYSIS OF LINEAR SYSTEMS .....</b>	<b>5145</b>
<i>Mark Wetzlinger; Niklas Kochdumper; Matthias Althoff</i>	
<b>ON STABLE RIGHT-INVERSION OF NON-MINIMUM-PHASE SYSTEMS.....</b>	<b>5153</b>
<i>Mohamed Elobaid; Mattia Mattioni; Salvatore Monaco; Dorothee Normand-Cyrot</i>	
<b>ITERATIVE METHOD FOR ONLINE FRACTIONAL ORDER AND PARAMETER IDENTIFICATION.....</b>	<b>5159</b>
<i>Oliver Stark; Philipp Karg; Sören Hohmann</i>	
<b>TIME-DOMAIN OUTPUT NEGATIVE IMAGINARY SYSTEMS AND ITS CONNECTION TO DYNAMIC DISSIPATIVITY .....</b>	<b>5167</b>
<i>Parijat Bhowmick; Alexander Lanson</i>	
<b>ON THE EQUIVALENCE OF MODEL INVERSION ARCHITECTURES FOR CONTROL APPLICATIONS .....</b>	<b>5173</b>
<i>Juxhino Kavaja; Aurelio Piazzi</i>	
<b>POTENTIALLY HURWITZ STRUCTURES: A CHARACTERIZATION OF NESTS.....</b>	<b>5180</b>
<i>João Cavalcanti</i>	
<b>WHAT DOES IT TAKE TO CONTROL A MULTI-CHANNEL LINEAR SYSTEM WITH DISTRIBUTED FEEDBACK?.....</b>	<b>5188</b>
<i>F. Liu; A. S. Morse</i>	
<b>EVENT-SAMPLED LEARNING FOR UNKNOWN NONLINEAR SYSTEMS RELATED TO DYNAMIC TRIGGERING METHOD .....</b>	<b>5200</b>
<i>Ke Wang; Chaoxu Mu</i>	

<b>ANALYSIS OF INTER-EVENT TIMES FOR PLANAR LINEAR SYSTEMS UNDER A GENERAL CLASS OF EVENT TRIGGERING RULES</b> .....	5206
<i>Anusree Rajan; Pavankumar Tallapragada</i>	
<b>RELAY-EXPLORER APPROACH FOR MULTI-AGENT EXPLORATION OF AN UNKNOWN ENVIRONMENT WITH INTERMITTENT COMMUNICATION</b> .....	5218
<i>Runhan Sun; Christian G. Harris; Zachary I. Bell; Warren E. Dixon</i>	
<b>DISTRIBUTED TASK-SPACE CONSENSUS CONTROL OF NETWORKED EULER-LAGRANGE SYSTEMS UNDER FAULTY ACTUATOR AND SWITCHING COMMUNICATION TOPOLOGY</b> .....	5224
<i>Van-Tam Ngo; Yen-Chen Liu</i>	
<b>ADAPTIVE PREDICTIVE CONTROL FOR PIPELINED MULTIPROCESSOR IMAGE-BASED CONTROL SYSTEMS CONSIDERING WORKLOAD VARIATIONS</b> .....	5236
<i>Sajid Mohamed; Nilay Saraf; Daniele Bernardini; Dip Goswami; Twan Basten; Alberto Bemporad</i>	
<b>COOPERATIVE FLOW FIELD ESTIMATION USING MULTIPLE AUVS</b> .....	5243
<i>Linlin Shi; Ronghao Zheng; Meiqin Liu; Senlin Zhang</i>	
<b>SAFETY-GUARANTEED REAL-TIME TRAJECTORY PLANNING FOR UNDERWATER VEHICLES IN PLANE-PROGRESSIVE WAVES</b> .....	5249
<i>Seth Sirtya; Minh Bui; Arrvindh Shriraman; Mo Chen; Ye Pu</i>	
<b>A DISTRIBUTED CONNECTIVITY MAINTENANCE ALGORITHM FOR A NETWORK OF UNMANNED UNDERWATER VEHICLES UNDER COMMUNICATION CONSTRAINTS</b> .....	5255
<i>Devaprakash Muniraj; Mazen Farhood; Daniel J. Stilwell</i>	
<b>NEURAL-NET BASED ROBUST ADAPTIVE CONTROL FOR 3D PATH FOLLOWING OF TORPEDO-TYPE AUVS</b> .....	5261
<i>Ji-Hong Li; Mun-Jik Lee; Hyungjoo Kang; Min-Gyu Kim; Gun Rae Cho</i>	
<b>HYSTERETIC CONTROL LYAPUNOV FUNCTIONS WITH APPLICATION TO GLOBAL ASYMPTOTIC TRACKING FOR UNDERWATER VEHICLES</b> .....	5267
<i>Erlend A. Basso; Henrik M. Schmidt-Didlaukies; Kristin Y. Pettersen</i>	
<b>COMBINING CONTROL BARRIER FUNCTIONS AND BEHAVIOR TREES FOR MULTI-AGENT UNDERWATER COVERAGE MISSIONS</b> .....	5275
<i>Özer Özkahraman; Petter Ögren</i>	
<b>AN OPTIMIZATION-BASED MOTION PLANNER FOR AUTONOMOUS MANEUVERING OF MARINE VESSELS IN COMPLEX ENVIRONMENTS</b> .....	5283
<i>Kristoffer Bergman; Oskar Ljungqvist; Jonas Linder; Daniel Åxehill</i>	
<b>MODEL-REFERENCE REINFORCEMENT LEARNING CONTROL OF AUTONOMOUS SURFACE VEHICLES</b> .....	5291
<i>Qingrui Zhang; Wei Pan; Vasso Reppa</i>	
<b>COVERAGE CONTROL USING DIRECTIONAL NONLINEAR DYNAMIC SENSORS WITH NON-SMOOTH SENSING RANGE</b> .....	5309
<i>Zhiyang Ju; Ying Tan; Hui Zhang; Xiang Chen</i>	
<b>PERSISTENT AWARENESS-BASED MULTI-ROBOT COVERAGE CONTROL</b> .....	5315
<i>Xiaotian Xu; Erick Rodriguez-Seda; Yancy Diaz-Mercado</i>	
<b>ENFORCING NONHOLONOMIC CONSTRAINTS IN AEROBAT, A ROOSTING FLAPPING WING MODEL</b> .....	5321
<i>Eric Sihite; Alireza Ramezani</i>	
<b>VEHICLE SAFETY OF THE VELOCITY OBSTACLE ALGORITHM</b> .....	5340
<i>Aurora Haraldsen; Martin S. Wiig; Kristin Y. Pettersen</i>	
<b>CONSENSUS IN NETWORKS OF NONLINEAR INTEGRATORS WITH APPLICATIONS TO COORDINATED PATH FOLLOWING CONTROL OF FIXED-WING UAVS</b> .....	5348
<i>Hao Chen; Xiangke Wang; Zhongkui Li; Lincheng Shen</i>	
<b>OPTIMISATION WITH ZERO-TH-ORDER ORACLES IN FORMATION</b> .....	5354
<i>Elad Michael; Daniel Zelazo; Tony A. Wood; Chris Manzie; Iman Shames</i>	
<b>COMMUNICATION-EFFICIENT DISTRIBUTED ALGORITHMS FOR SOLVING LINEAR ALGEBRAIC EQUATIONS OVER DIRECTED GRAPHS</b> .....	5360
<i>Ji Liu; Brian D. O. Anderson</i>	
<b>DISTRIBUTED FORCE/POSITION OPTIMIZATION DYNAMICS FOR COOPERATIVE UNKNOWN PAYLOAD MANIPULATION</b> .....	5366
<i>Tatsuya Miyano; Justin Romberg; Magnus Egerstedt</i>	
<b>MULTI-SWARM HERDING: PROTECTING AGAINST ADVERSARIAL SWARMS</b> .....	5374
<i>Vishnu S. Chipade; Dimitra Panagou</i>	
<b>PRIDE OF LIONS AND MAN DIFFERENTIAL GAME</b> .....	5380
<i>Eloy Garcia; David W. Casbeer; Alexander Von Moll; Meir Pachter</i>	
<b>THE N-STAGE WAR OF ATTRITION AND ITS INVERSE GAME TOWARDS ITS APPLICATION IN HUMAN-MACHINE COOPERATIVE DECISION MAKING</b> .....	5386
<i>Simon Rothfuß; Toshiaki Sebastian Tanaka; Jairo Inga; Sören Hohmann</i>	
<b>TIME-DISCOUNTED INCREMENTAL INPUT/OUTPUT-TO-STATE STABILITY</b> .....	5394
<i>Sven Knüfer; Matthias A. Müller</i>	
<b>EQUIVARIANT FILTER (EQF): A GENERAL FILTER DESIGN FOR SYSTEMS ON HOMOGENEOUS SPACES</b> .....	5401
<i>Pieter Van Goor; Tarek Hamel; Robert Mahony</i>	
<b>STATE OBSERVERS AND UNKNOWN INPUT ESTIMATORS FOR DISCRETE-TIME NONLINEAR SYSTEMS CHARACTERIZED BY INCREMENTAL MULTIPLIER MATRICES</b> .....	5409
<i>Badriah Alenezi; Mukai Zhang; Stefen Hui; Stanislaw H. Zak</i>	

<b>NONLINEAR OBSERVER FOR THE TURBULENT WAKE OF A SQUARE CYLINDER</b> .....	5421
<i>Javeria Ahmed; Estelle Courtial; Pierre-Yves Passaggia; Matthieu Fruchard; Nicolas Mazellier</i>	
<b>LOW-POWER HIGH GAIN OBSERVERS FOR WAKE FLOW REBUILD</b> .....	5428
<i>Javeria Ahmed; Matthieu Fruchard; Estelle Courtial; Youssoufi Touré</i>	
<b>NUMERICAL DESIGN OF LUENBERGER OBSERVERS FOR NONLINEAR SYSTEMS</b> .....	5435
<i>Louise Da C. Ramos; Florent Di Meglio; Valéry Morgenthaler; Luís F. Figueira Da Silva; Pauline Bernard</i>	
<b>SIMULTANEOUS INPUT AND STATE INTERVAL OBSERVERS FOR NONLINEAR SYSTEMS WITH FULL-RANK DIRECT FEEDTHROUGH</b> .....	5443
<i>Mohammad Khajenejad; Sze Zheng Yong</i>	
<b>TOWARDS PRIVATE DATA-DRIVEN CONTROL</b> .....	5449
<i>Andreea B. Alexandru; Anastasios Tsiamis; George J. Pappas</i>	
<b>DESIGN PROCEDURE FOR DYNAMIC CONTROLLERS BASED ON LWE-BASED HOMOMORPHIC ENCRYPTION TO OPERATE FOR INFINITE TIME HORIZON</b> .....	5463
<i>Junsoo Kim; Hyungbo Shim; Kyoohyung Han</i>	
<b>ENCRYPTED EXPLICIT MPC BASED ON TWO-PARTY COMPUTATION AND CONVEX CONTROLLER DECOMPOSITION</b> .....	5469
<i>Nils Schlüter; Moritz Schulze Darup</i>	
<b>DYNAMIC QUANTIZER FOR ENCRYPTED OBSERVER-BASED CONTROL</b> .....	5477
<i>Kaoru Teranishi; Kiminao Kogiso</i>	
<b>PRIVACY AGAINST ADVERSARIAL CLASSIFICATION IN CYBER-PHYSICAL SYSTEMS</b> .....	5483
<i>Carlos Murguía; Paulo Tabuada</i>	
<b>RESILIENCE OF CYBER-PHYSICAL SYSTEMS TO COVERT ATTACKS BY EXPLOITING AN IMPROVED ENCRYPTION SCHEME</b> .....	5489
<i>Moritz Fauser; Ping Zhang</i>	
<b>DISTRIBUTED AGGREGATION OVER HOMOMORPHICALLY ENCRYPTED DATA UNDER SWITCHING NETWORKS</b> .....	5495
<i>Donggil Lee; Junsoo Kim; Hyungbo Shim</i>	
<b>DATA-DRIVEN MULTI-MODEL CONTROL FOR A WASTE HEAT RECOVERY SYSTEM</b> .....	5501
<i>Johan Peralez; Francesco Galuppo; Pascal Dufour; Christian Wolf; Madiha Nadri</i>	
<b>LIMIT CYCLE OSCILLATION SUPPRESSION USING A CLOSED-LOOP NONLINEAR ACTIVE FLOW CONTROL TECHNIQUE</b> .....	5507
<i>Krishna Bhavithavya Kidambi; William Mackunis; Anu Kossery Jayaprakash</i>	
<b>INPUT SHAPING VIA FIR <math>L_2</math> PREVIEW TRACKING</b> .....	5513
<i>Izhak Bucher; Leonid Mirkin; Yoav Vered</i>	
<b>MICRO-SCALE 2D CHIPLET POSITION CONTROL: A FORMAL APPROACH TO POLICY DESIGN</b> .....	5519
<i>Ion Matei; Johan De Kleer; Christoforos Somarakis; Anne Plochowietz; John S. Baras</i>	
<b>FUSING ONLINE GAUSSIAN PROCESS-BASED LEARNING AND CONTROL FOR SCANNING QUANTUM DOT MICROSCOPY</b> .....	5525
<i>Maik Pfefferkorn; Michael Maiworm; Christian Wagner; F. Stefan Tautz; Rolf Findeisen</i>	
<b>CABLE ESTIMATION-BASED CONTROL FOR WIRE-BORNE UNDERACTUATED BRACHIATING ROBOTS: A COMBINED DIRECT-INDIRECT ADAPTIVE ROBUST APPROACH</b> .....	5532
<i>Siavash Farzan; Vahid Azimi; Ai-Ping Hu; Jonathan Rogers</i>	
<b>AN INDIRECT ESTIMATION OF MACHINE PARAMETERS FOR SERIAL PRODUCTION LINES WITH BERNOULLI RELIABILITY MODEL</b> .....	5540
<i>Seunghyeon Kim; Yuchang Won; Kyung-Joon Park; Yongsoo Eun</i>	
<b>HIERARCHICAL ROUTING CONTROL IN DISCRETE MANUFACTURING PLANTS VIA MODEL PREDICTIVE PATH ALLOCATION AND GREEDY PATH FOLLOWING</b> .....	5546
<i>Lorenzo Fagiano; Marko Tanaskovic; Lenin Cucas Mallitasig; Andrea Cataldo; Riccardo Scattolini</i>	
<b>SENSITIVITY-BASED LINK ADDITION FOR ROBUST DYNAMICAL NETWORKS</b> .....	5558
<i>Vahid Hamdipoor; Jun Moon; Yoonsoo Kim</i>	
<b>ON THE ACTIVE NODES OF NETWORK SYSTEMS</b> .....	5561
<i>Kaiwen Chen; Alessandro Astolfi</i>	
<b>LEADER GROUP SELECTION FOR HERDABILITY OF STRUCTURALLY BALANCED SIGNED NETWORKS</b> .....	5567
<i>S. Meng; B. She; H. Gao; Z. Kan</i>	
<b>APPROXIMATE PROJECTION-BASED CONTROL OF NETWORKS</b> .....	5573
<i>Max Z. Li; Karthik Gopalakrishnan; Hamsa Balakrishnan</i>	
<b>CONTROLLABILITY OVER GRAPHS FOR BILINEAR SYSTEMS OVER LIE GROUPS</b> .....	5580
<i>Xing Wang; Bo Li; Jr-Shin Li; Ian R. Petersen; Guodong Shi</i>	
<b>INFORMATION DISCLOSURE AND NETWORK FORMATION IN NEWS SUBSCRIPTION SERVICES</b> .....	5586
<i>Chin-Chia Hsu; Amir Ajorlou; Muhamet Yildiz; Ali Jadbabaie</i>	
<b>ON THE SIZE OF THE GIANT COMPONENT IN INHOMOGENEOUS RANDOM K-OUT GRAPHS</b> .....	5592
<i>Mansi Sood; Osman Yagan</i>	
<b>DISTRIBUTED AND LOCALIZED CLOSED LOOP MODEL PREDICTIVE CONTROL VIA SYSTEM LEVEL SYNTHESIS</b> .....	5598
<i>Carmen Amo Alonso; Nikolai Matni</i>	
<b>EXPLICIT DISTRIBUTED AND LOCALIZED MODEL PREDICTIVE CONTROL VIA SYSTEM LEVEL SYNTHESIS</b> .....	5606
<i>Carmen Amo Alonso; Nikolai Matni; James Anderson</i>	

<b>COLLISION-FREENESS AND FEASIBILITY IN NON-ITERATIVE DISTRIBUTED MODEL PREDICTIVE CONTROL WITH PREDICTION MISMATCH</b> .....	5614
<i>Christine Kloock; Herbert Werner</i>	
<b>DISTRIBUTED CONTINUOUS-TIME OPTIMIZATION WITH TIME-VARYING OBJECTIVE FUNCTIONS AND INEQUALITY CONSTRAINTS</b> .....	5622
<i>Shan Sun; Wei Ren</i>	
<b>EXTENDED FULL BLOCK S-PROCEDURE FOR DISTRIBUTED CONTROL OF INTERCONNECTED SYSTEMS</b> .....	5628
<i>Giulia De Pasquale; Yvonne R. Stürz; Maria Elena Valcher; Roy S. Smith</i>	
<b>NULL-CONTROLLABILITY, EXACT CONTROLLABILITY, AND STABILIZATION OF HYPERBOLIC SYSTEMS FOR THE OPTIMAL TIME</b> .....	5634
<i>Jean-Michel Coron; Hoai-Minh Nguyen</i>	
<b>OPTIMAL DISTRIBUTION CONTROL VIA LIOUVILLE APPROACH</b> .....	5641
<i>Shuo Wang</i>	
<b>FINITE-SAMPLE ANALYSIS OF MULTI-AGENT POLICY EVALUATION WITH KERNELIZED GRADIENT TEMPORAL DIFFERENCE</b> .....	5647
<i>Paulo Heredia; Shaoshuai Mou</i>	
<b>AL'BREKHT'S METHOD IN INFINITE DIMENSIONS</b> .....	5653
<i>Arthur J. Krener</i>	
<b>STABILITY ANALYSIS OF MIXED-AUTONOMY TRAFFIC WITH CAV PLATOONS USING TWO-CLASS AW-RASCLE MODEL</b> .....	5659
<i>Huan Yu; Saurabh Amin; Miroslav Krstic</i>	
<b>OPTIMAL PI CONTROLLER REJECTING DISTURBANCE FOR ARZ TRAFFIC MODEL</b> .....	5665
<i>Lina Guan; Liguang Zhang; Christophe Prieur</i>	
<b>SUB-PREDICTORS FOR NETWORK-BASED CONTROL UNDER UNCERTAIN LARGE DELAYS</b> .....	5683
<i>Yang Zhu; Emilia Fridman</i>	
<b>DUALITY AND H<sub>∞</sub>-OPTIMAL CONTROL OF COUPLED ODE-PDE SYSTEMS</b> .....	5689
<i>Sachin Shivakumar; Amritam Das; Siep Weiland; Matthew M. Peet</i>	
<b>ATTENTION VS. PRECISION: LATENCY SCHEDULING FOR UNCERTAINTY RESILIENT CONTROL SYSTEMS</b> .....	5697
<i>Rodrigo Aldana-López; Rosario Aragués; Carlos Sagüés</i>	
<b>RESILIENT CONTROL: COMPROMISING TO ADAPT</b> .....	5703
<i>Luiz F. O. Chamon; Alexandre Amice; Santiago Paternain; Alejandro Ribeiro</i>	
<b>RESILIENT ASYNCHRONOUS RENDEZVOUS OF SECOND-ORDER AGENTS UNDER COMMUNICATION NOISE</b> .....	5711
<i>Mingming Shi</i>	
<b>A SEARCH-BASED APPROACH TO IDENTIFYING JAMMING ATTACKS AND DEFENSE POLICIES IN WIRELESS NETWORKED CONTROL</b> .....	5717
<i>Ahmet Cetinkaya; Paolo Arcaini; Hideaki Ishii; Tomohisa Hayakawa</i>	
<b>DISTRIBUTED ECONOMIC DISPATCH FOR CYBER ATTACKED SMART GRID BASED ON RESILIENT EVENT-TRIGGERED CONSENSUS</b> .....	5725
<i>Feisheng Yang; Peipei Kang; Xiaohong Guan</i>	
<b>TOWARDS DISTRIBUTED ACCOMMODATION OF COVERT ATTACKS IN INTERCONNECTED SYSTEMS</b> .....	5731
<i>Angelo Barboni; Thomas Parisini</i>	
<b>A SECURE STATE ESTIMATION ALGORITHM FOR NONLINEAR SYSTEMS UNDER SENSOR ATTACKS</b> .....	5743
<i>Michelle S. Chong; Henrik Sandberg; João P. Hespanha</i>	
<b>SEMICONTINUITY PROPERTIES OF SOLUTIONS AND REACHABLE SETS OF NOMINALLY WELL-POSED HYBRID DYNAMICAL SYSTEMS</b> .....	5755
<i>Berk Altin; Ricardo G. Sanfelice</i>	
<b>DISTRIBUTED STATE ESTIMATION FOR STOCHASTIC LINEAR HYBRID SYSTEMS</b> .....	5761
<i>Bin Du; Lian Yuan; Dengfeng Sun; Inseok Hwang</i>	
<b>ON NOTIONS OF DETECTABILITY AND OBSERVERS FOR HYBRID SYSTEMS</b> .....	5767
<i>Pauline Bernard; Ricardo G. Sanfelice</i>	
<b>A FREQUENCY-DOMAIN STABILITY METHOD FOR RESET SYSTEMS</b> .....	5785
<i>Ali Ahmadi Dastjerdi; Alessandro Astolfi; S. Hassan Hosseinnia</i>	
<b>STABILITY OF PLANAR SWITCHED SYSTEMS UNDER DELAYED EVENT DETECTION</b> .....	5792
<i>Benoît Legat; Cláudio Gomes; Paschalis Karalis; Raphaël M. Jungers; Eva M. Navarro-López; Hans Vangheluwe</i>	
<b>ROBUST SYNCHRONIZATION OF HETEROGENEOUS ROBOT SWARMS ON THE SPHERE</b> .....	5798
<i>Johan Markdahl; Daniele Proverbio; Jorge Goncalves</i>	
<b>SYNCHRONIZATION OF PERTURBED LINEAR SYSTEMS WITH DATA-RATE CONSTRAINTS</b> .....	5804
<i>Quentin Voortman; Denis Efimov; Alexander Yu. Pogromsky; Jean-Pierre Richard; Henk Nijmeijer</i>	
<b>DISTRIBUTED COMPOSITE ADAPTIVE SYNCHRONIZATION OF MULTIPLE UNCERTAIN EULER-LAGRANGE SYSTEMS USING COOPERATIVE INITIAL EXCITATION</b> .....	5816
<i>Tushar Garg; Sayan Basu Roy</i>	
<b>SYNCHRONIZATION CONDITIONS FOR A THIRD-ORDER KURAMOTO NETWORK</b> .....	5834
<i>Liang Wu; Haoyong Chen</i>	
<b>SUBMODULAR INPUT SELECTION FOR SYNCHRONIZATION IN KURAMOTO NETWORKS</b> .....	5840
<i>Dinuka Sahabandu; Andrew Clark; Linda Bushnell; Radha Poovendran</i>	

<b>PREDICTING ADAPTATION FOR UNCERTAIN SYSTEMS WITH ROBUST REAL PLOTS .....</b>	<b>5861</b>
<i>Franco Blanchini; Patrizio Colaneri; Giulia Giordano; Irene Zorzan</i>	
<b>CONTROLLING EVENT TIMING PRECISION FOR GENE EXPRESSION WITH EXTERNAL DISTURBANCES .....</b>	<b>5867</b>
<i>Khem Raj Ghusinga; Abhyudai Singh</i>	
<b>PROPAGATION OF STOCHASTIC GENE EXPRESSION IN THE PRESENCE OF DECOYS .....</b>	<b>5873</b>
<i>Supravat Dey; Abhyudai Singh</i>	
<b>PID/FIRST-ORDER CONTROL DESIGN FOR A BANK OF F-16 LONGITUDINAL DYNAMIC SYSTEMS .....</b>	<b>5879</b>
<i>Jong Geon Lee; Young Chol Kim</i>	
<b>MEASUREMENT BASED STABILIZING PID CONTROLLERS FOR CAMERA GIMBALS .....</b>	<b>5885</b>
<i>Sangjin Han; Nikolas Vale; Joseph Conroy</i>	
<b>TRADEOFF BETWEEN DELAY ROBUSTNESS AND TRACKING PERFORMANCE BY PID CONTROL: SECOND-ORDER UNSTABLE SYSTEMS .....</b>	<b>5891</b>
<i>Jianqi Chen; Dan Ma; Yong Xu; Jie Chen</i>	
<b>TRANSIENT RESPONSE SHAPING VIA POLE ASSIGNMENT IN SPECIFIED REGIONS .....</b>	<b>5897</b>
<i>Hunter M. Williams; Sangjin Han; S. P. Bhattacharyya</i>	
<b>ON THE TRANSIENT GROWTH OF NESTEROV'S ACCELERATED METHOD FOR STRONGLY CONVEX OPTIMIZATION PROBLEMS .....</b>	<b>5911</b>
<i>Samantha Samuelson; Hesameddin Mohammadi; Mihailo R. Jovanovic</i>	
<b>A PRIVACY PRESERVING MODEL-FREE OPTIMIZATION AND CONTROL FRAMEWORK FOR DEMAND RESPONSE FROM RESIDENTIAL THERMAL LOADS .....</b>	<b>5917</b>
<i>S. Sivaranjani; P. R. Kumar; Le Xie</i>	
<b>DISTRIBUTED NETWORKED LEARNING WITH CORRELATED DATA .....</b>	<b>5923</b>
<i>Lingzhou Hong; Alfredo Garcia; Ceyhun Eksin</i>	
<b>REACH-SDP: REACHABILITY ANALYSIS OF CLOSED-LOOP SYSTEMS WITH NEURAL NETWORK CONTROLLERS VIA SEMIDEFINITE PROGRAMMING .....</b>	<b>5929</b>
<i>Haimin Hu; Mahyar Fazlyab; Manfred Morari; George J. Pappas</i>	
<b>DIMENSIONALITY REDUCTION OF VOLTERRA KERNELS BY TENSOR DECOMPOSITION USING HIGHER-ORDER SVD .....</b>	<b>5935</b>
<i>Urszula Libal; John S. Baras; Karl H. Johansson</i>	
<b>MPC-BASED HIERARCHICAL TASK SPACE CONTROL OF UNDERACTUATED AND CONSTRAINED ROBOTS FOR EXECUTION OF MULTIPLE TASKS .....</b>	<b>5942</b>
<i>Jaemin Lee; Seung Hyeon Bang; Efsthios Bakolas; Luis Sentis</i>	
<b>DUAL QUATERNION VISUAL SERVO CONTROL .....</b>	<b>5956</b>
<i>Ryan Saltus; Iman Salehi; Ghananeel Rotithor; Ashwin P. Dani</i>	
<b>TARGET TRACKING IN THE PRESENCE OF INTERMITTENT MEASUREMENTS BY A NETWORK OF MOBILE CAMERAS .....</b>	<b>5962</b>
<i>Christian G. Harris; Zachary I. Bell; Runhan Sun; Emily A. Doucette; J. Willard Curtis; Warren E. Dixon</i>	
<b>DYNAMIC REGRET BOUND FOR MOVING TARGET TRACKING BASED ON ONLINE TIME-OF-ARRIVAL MEASUREMENTS .....</b>	<b>5968</b>
<i>Yuen-Man Pun; Anthony Man-Cho So</i>	
<b>A DECENTRALIZED POLICY WITH LOGARITHMIC REGRET FOR A CLASS OF MULTI-AGENT MULTI-ARMED BANDIT PROBLEMS WITH OPTION UNAVAILABILITY CONSTRAINTS AND STOCHASTIC COMMUNICATION PROTOCOLS .....</b>	<b>5974</b>
<i>Pathmanathan Pankayaraj; D. H. S. Maithripala; J. M. Berg</i>	
<b>AGENT-LEVEL OPTIMAL LQG CONTROL OF DYNAMICALLY DECOUPLED SYSTEMS WITH PROCESSING DELAYS .....</b>	<b>5980</b>
<i>Mruganka Kashyap; Laurent Lessard</i>	
<b>INDEPENDENTLY RANDOMIZED SYMMETRIC POLICIES ARE OPTIMAL FOR EXCHANGEABLE STOCHASTIC TEAMS WITH INFINITELY MANY DECISION MAKERS .....</b>	<b>5986</b>
<i>Sina Sanjari; Naci Saldi; Serdar Yüksel</i>	
<b>A NONSMOOTH NEWTON METHOD FOR THE DESIGN OF STATE FEEDBACK STABILIZERS UNDER STRUCTURE CONSTRAINTS .....</b>	<b>5992</b>
<i>Mohamed Yagoubi; Redouane Chaibi</i>	
<b>AN H<sub>∞</sub> METHOD TO DESIGN THE REFERENCE MODEL IN DIRECT DATA-DRIVEN CONTROL DESIGN .....</b>	<b>6004</b>
<i>Vito Cerone; Mohammad Abuabiah; Diego Regruto</i>	
<b>A DATA-DRIVEN APPROACH FOR CONSTRAINED INFINITE-HORIZON LINEAR QUADRATIC REGULATION .....</b>	<b>6010</b>
<i>Bo Pang; Zhong-Ping Jiang</i>	
<b>FIXED-TIME OBSERVER DESIGN FOR LTI SYSTEMS BY TIME-VARYING COORDINATE TRANSFORMATION .....</b>	<b>6040</b>
<i>Gilberto Pin; Guitao Yang; Andrea Serrani; Thomas Parisini</i>	
<b>STATE VARIANCE ESTIMATION IN LARGE-SCALE NETWORK SYSTEMS .....</b>	<b>6052</b>
<i>Muhammad Umar B. Niazi; Carlos Canudas-De-Wit; Alain Y. Kibangou</i>	
<b>AVERAGE STATE ESTIMATION IN PRESENCE OF OUTLIERS .....</b>	<b>6058</b>
<i>Ujjwal Pratap; Carlos Canudas-De-Wit; Federica Garin</i>	
<b>AN OPTIMAL TEMPERATURE REGULATION STRATEGY FOR A MULTI-UNIT BUILDING .....</b>	<b>6088</b>
<i>Hamed Molaei; Amir G. Aghdam</i>	

<b>DISTURBANCE REJECTION OF TWO-DIMENSIONAL REPETITIVE CONTROL SYSTEM BASED ON T-S FUZZY MODEL</b> .....	6094
<i>Shengnan Tian; Min Wu; Manli Zhang; Chengda Lu; Luefeng Chen; Jinhua She</i>	
<b>EVENT-TRIGGERED REDUCED-ORDER FILTERING FOR NETWORKED T-S FUZZY SYSTEMS VIA A FUZZY LYAPUNOV-KRASOVSKII FUNCTIONAL APPROACH</b> .....	6112
<i>Xiehuan Li; Dan Ye</i>	
<b>INFORMATION STATE EMBEDDING IN PARTIALLY OBSERVABLE COOPERATIVE MULTI-AGENT REINFORCEMENT LEARNING</b> .....	6124
<i>Weichao Mao; Kaiqing Zhang; Erik Miehling; Tamer Basar</i>	
<b>MULTIMARGINAL OPTIMAL TRANSPORT BY ACCELERATED ALTERNATING MINIMIZATION</b> .....	6132
<i>Nazarii Tupitsa; Pavel Dvurechensky; Alexander Gasnikov; César A. Uribe</i>	
<b>DATA-DRIVEN DISTRIBUTED MITIGATION STRATEGIES AND ANALYSIS OF MUTATING EPIDEMIC PROCESSES</b> .....	6138
<i>Philip E. Paré; Sebin Gracy; Henrik Sandberg; Karl Henrik Johansson</i>	
<b>PROJECTION CONSENSUS FOR SOLVING LINEAR EQUATIONS OVER RANDOM NETWORKS</b> .....	6144
<i>Peng Yi; Jinlong Lei; Yiguang Hong; Jie Chen; Guodong Shi</i>	
<b>DISTRIBUTED EVENT-TRIGGERED OPTIMIZATION ALGORITHM DESIGN FOR MASS WITH ATTACKS ON COMMUNICATION EDGES</b> .....	6150
<i>Dandan Wang; Xiao Fang; Yan Wan; Guanghui Wen</i>	
<b>ROBUST INSTABILITY ANALYSIS WITH APPLICATION TO NEURONAL DYNAMICS</b> .....	6156
<i>Shinji Hara; Tetsuya Iwasaki; Yutaka Hori</i>	
<b>RAPID SYNCHRONIZATION UNDER WEAK SYNAPTIC COUPLING</b> .....	6168
<i>Jin Gyu Lee; Rodolphe Sepulchre</i>	
<b>SYSTEM IDENTIFICATION OF BIOPHYSICAL NEURONAL MODELS</b> .....	6180
<i>Thiago B. Burghi; Maarten Schoukens; Rodolphe Sepulchre</i>	
<b>ACTIVE EXPLORATION IN ADAPTIVE MODEL PREDICTIVE CONTROL</b> .....	6186
<i>Anilkumar Parsi; Andrea Iannelli; Roy S. Smith</i>	
<b>COMPUTING THE RACING LINE USING BAYESIAN OPTIMIZATION</b> .....	6192
<i>Achin Jain; Manfred Morari</i>	
<b>TRAJECTORY OPTIMIZATION FOR NONLINEAR MULTI-AGENT SYSTEMS USING DECENTRALIZED LEARNING MODEL PREDICTIVE CONTROL</b> .....	6198
<i>Edward L. Zhu; Yvonne R. Stürz; Ugo Rosolia; Francesco Borrelli</i>	
<b>LEARNING TO SATISFY UNKNOWN CONSTRAINTS IN ITERATIVE MPC</b> .....	6204
<i>Monimoy Bujarbaruah; Charlott Vallon; Francesco Borrelli</i>	
<b>SAMPLE COMPLEXITY OF DATA-DRIVEN STOCHASTIC LQR WITH MULTIPLICATIVE UNCERTAINTY</b> .....	6210
<i>Peter Coppens; Panagiotis Patrinos</i>	
<b>OPTIMAL RECURSIVE BACKSTEPPING FOR NONLINEAR SYSTEMS IN A STRICT-FEEDBACK FORM WITH CONTINUOUS AND INTERMITTENT UPDATES</b> .....	6216
<i>Yongliang Yang; Hamidreza Modares; Kyriakos G. Vamvoudakis; Cheng-Zhong Xu</i>	
<b>DISTRIBUTED OPTIMISATION WITH STOCHASTIC EVENT-TRIGGERED MULTI-AGENT CONTROL ALGORITHM</b> .....	6222
<i>Kam Fai Elvis Tsang; Junfeng Wu; Ling Shi</i>	
<b>EVENT-TRIGGERED DISTRIBUTED INFERENCE</b> .....	6228
<i>Aritra Mitra; Saurabh Bagchi; Shreyas Sundaram</i>	
<b>EVENT-TRIGGERED CONTROL IN PRESENCE OF MEASUREMENT NOISE: A SPACE-REGULARIZATION APPROACH</b> .....	6234
<i>K. J. A. Scheres; R. Postoyan; W. P. M. H. Heemels</i>	
<b>RESILIENT SELF/EVENT-TRIGGERED CONSENSUS BASED ON TERNARY CONTROL</b> .....	6240
<i>Hiroki Matsume; Yuan Wang; Hideaki Ishii</i>	
<b>PRIVACY-PRESERVING EVENT-TRIGGERED QUANTIZED AVERAGE CONSENSUS</b> .....	6246
<i>Apostolos I. Rikos; Themistoklis Charalambous; Karl H. Johansson; Christoforos N. Hadjicostis</i>	
<b>PRESERVING PRIVACY OF THE INFLUENCE STRUCTURE IN FRIEDKIN-JOHNSEN SYSTEMS</b> .....	6254
<i>Jack Liell-Cock; Ian R. Manchester; Guodong Shi</i>	
<b>DIFFERENTIALLY PRIVATE FORMATION CONTROL</b> .....	6260
<i>Calvin Hawkins; Matthew Hale</i>	
<b>PRIVACY-PRESERVING POLICY SYNTHESIS IN MARKOV DECISION PROCESSES</b> .....	6266
<i>Parham Gohari; Matthew Hale; Ufuk Topcu</i>	
<b>MAXIMIZING PRIVACY IN MIMO CYBER-PHYSICAL SYSTEMS USING THE CHAPMAN-ROBBINS BOUND</b> .....	6272
<i>Rijad Alisic; Marco Molinari; Philip E. Paré; Henrik Sandberg</i>	
<b>SIGNED SMALL-GAIN CRITERIA AMENABLE TO ASYMMETRY WITH RESPECT TO EQUILIBRIA IN ESTABLISHING HISS OF NETWORKS</b> .....	6278
<i>Hiroshi Ito</i>	
<b>ON INTEGRAL INPUT-TO-OUTPUT STABILITY PROPERTIES</b> .....	6285
<i>R. H. Harsha Nawarathna; Yuandan Lin; Yuan Wang</i>	
<b>AVERAGE DWELL-TIME BOUNDS FOR ISS AND INTEGRAL ISS OF SWITCHED SYSTEMS USING LYAPUNOV FUNCTIONS</b> .....	6291
<i>Shenyu Liu; Aneel Tanwani; Daniel Liberzon</i>	

<b>SUFFICIENT LYAPUNOV CONDITIONS FOR PTH MOMENT ISS OF DISCRETE-TIME MARKOVIAN SWITCHING SYSTEMS</b> .....	6297
<i>Anastasia Impicciatore; Alessandro D'Innocenzo; Pierdomenico Pepe</i>	
<b>LOCAL STATE-INDEPENDENT INPUT-TO-OUTPUT STABILITY AS A TOOL FOR ROBUSTNESS ANALYSIS OF MECHANICAL SYSTEMS</b> .....	6303
<i>Yoshiro Fukui; Yasuyuki Satoh</i>	
<b>Author Index</b>	