

Paper ID	Title	Authors
5	Modeling and Control for the Tube Blank Heating Quality of Seamless Tube	dong xiao*; shaohua shi; jichun wang; Zhizhong Mao
13	Modeling of Guide Disk speed of Rotary Piercer Based on PCA-ELM	dong xiao*; jichun wang; Zhizhong Mao; shaohua shi
14	Coordinated control of a four-area power system under structural perturbation	Xuebo CHEN*; Chen MA
19	Sliding Mode Controller Design for Spacecraft with Manipulator	Hyo-Sung Ahn*
23	Graphical Description of Autopilot Robustness to Aerodynamic Uncertainties	Mingwei Sun*; Shengzhi Du; Zengqiang Chen
26	A New Method Based on the Polytopic Linear Differential Inclusion for the Nonlinear Filter	Bing Liu; Zhen Chen*; Xiangdong Liu; Fan Yang; Jie Geng
30	New Results for Feedback Control of Discrete Systems with Time Scales	Magdi S. Mahmoud*
31	The Active Disturbance Rejection Control for Nonlinear Systems Using Time-Varying-Gain	Bao-Zhu Guo*; Zhiliang Zhao
34	Stabilization of Uncertain Discrete Time-Delayed Systems via Delta Operator Approach	Huijun Gao*; Xiaochen Xie; Shen Yin; Okyay Kaynak
35	Distributed State Estimation for Lur'e Systems in Sensor Networks with Impulsive Effects and Intermittent Measurements	Xiaomei Zhang*; Lei Yan; yufan zheng
36	An Efficient Method for Finite Time Stability Calculation of Continuous Time Delay Systems	Ivan Buzurovic*; Dragutin Debeljkovic; Aleksandra Jovanovic
37	Stabilization for Polytopic Uncertain Switched Linear Systems with Constant Input	Takuya Soga; Naohisa Otsuka*; Genki Nakayama; Akihiro Tojo
40	Controlling Two Asynchronous Sequential Machines with One Corrective Controller	Jung Min Yang*
41	Approximate Solutions to the Hamilton-Jacobi Equations for Generating Functions: the General Cost Function Case	Zhiwei Hao*; Kenji Fujimoto; Yoshikazu Hayakawa
43	Nonlinear model predictive control of an uninhabited surface vehicle	Robert Sutton*; sanjay Sharma
45	Model Matching of Input/State Asynchronous Sequential Machines Using a One-Step Corrective Controller	Jung Min Yang*
48	Stability Analysis of Dynamic Quantized Systems With Time-varying Delay	Mu Li*; Jian Sun; Lihua Dou; Haoyuan Sun
50	On a trolley-like problem in the presence of a nonlinear friction and a bounded fuel expenditure	Ivan Samylovskiy*
52	Instability of Uncertain Large-Scale Networks	Masaki Inoue*; Jun-ichi Imura; Kenji Kashima; Kazuyuki Aihara
53	Obstacle Avoidance for Redundant Manipulator without Information of the Joint angles	YOUNG JUN YOO; Ki Jang Oh; Yong Jun Choi; Sangchul Won*
55	System stabilization by unsymmetrical saturated state feedback control	mohamed benhayoun; Abdellah Benzaouia*; Fouad mesquine; Ahmed EL Hajjaji
66	Tracking Control for Piezo-Actuated Stage using Sliding Mode Controller with Observer-based Hysteresis Compensation	Taufiq Muhammadi; Wookyoung Kwon; Duckman Lee; Sangchul Won*
67	CRS and PS-Optimised PID Controller for Nonlinear, Electrohydraulic Suspension Systems	Jimoh PEDRO*; Akintunde Olurotimi Dahunsi; Montaz Ali; Muhammed Dangor

68	Micro defect detection in solar cell wafer based on hybrid illumination and near-infrared optics	Gyung-bum KIM*
69	Realizability of n-Port Resistive Networks with 2n Terminals	Michael Z. Q. Chen*; Kai Wang; Minghui Yin; Chanying Li; Guanrong Chen
70	High-order Consensus in High-order Multi-agent Systems	Yuping Tian*; Ya Zhang
71	Consensus over Directed Graph: Output Feedback and Topological Constraints	Tian Qi*; Li Qiu; Jie Chen
74	Contribution of Voltage-dependent Ion Channels to Subthreshold Resonance	Tatsuo Kitajima*; Zhonggang Feng
75	A gain Scheduling model of Temperature Compensation for Circadian Rhythm of Cyanobacteria	Miki Shimada*; Kenko Uchida
77	Output Feedback Receding Horizon Control for Spatiotemporal Dynamic Systems	Tomoaki Hashimoto*; Yu Takiguchi; Toshiyuki Ohtsuka
78	Stabilization of Multi-agent Systems via Distributed Difference Feedback Control	Yuping Tian*; Di Xin
79	A Novel Robust MPC Based Aircraft Auto-Throttle for Performing 4D Contract Flights	Vangelis Petratos; Dimitrios Dimogianopoulos; Fotis Kopsaftopoulos; Spiilos Fassois*
81	Infinite horizon MPC applied to an industrial FCC converter	Darci Odloak*
82	Policy Iteration for Parameterized Markov Decision Processes and Its Application	Li Xia*; Qing-Shan Jia
83	A Study on the Spectrum of Monodromy Operator for a Time-Delay System	Jung Hoon Kim*; Tomomichi Hagiwara; Kentaro Hirata
85	Estimation of Debris Hazard Areas due to a Space Vehicle Breakup at High Altitudes	Mahmut Reyhanoglu*; Juan Alvarado
86	On Near-controllability of a Class of Three-dimensional Discrete-time Bilinear Systems	Lin Tie*; Yan Lin
87	Fuzzy Improved Delphi method and its Application	wen ji*; Jianhui Wang; Xiaoke Fang; Shusheng Gu
88	Adaptation-and-Collision Detection Scheme for Safe Physical Human-Robot Interaction	Chang Nho Cho; Young-Loul Kim; Jae-Bok Song*
89	Feedback Control Method Based on Direct Servomechanism Speed Sensing and Processing to Reduce Residual Vibration	David Lindr*; Pavel Rydlo
91	Artificial Intelligent Control for Indoor Lighting Basing on Person Number in Classroom	Yifei Chen*
94	Robust adaptive dynamic programming for optimal nonlinear control design	Yu Jiang*; Zhong-Ping Jiang
95	Evolutionary Game Dynamics of Multi-agent Cooperation Driven by Self-learning	Jinming Du*; Bin Wu; Long Wang
96	Nonholonomic Control of Distance-based Cyclic Polygon Formation	Hyo-Sung Ahn*
97	Baseband Design and Software-Defined-Radio Implementation for LTE Femtocell	Dung-Rung Hsieh*; Jen-Yuan Hsu; Chieh-Yu Kao; Ming-Che Lin; Chun-Nan Liu; Pangan Ting
98	Minimizing the memory of a system	Dominikus Noll*; Ngoc Minh Dao
99	Formation Control of Multiple Robots Using Constrained Motion Formulation	Yun-Hui Liu*
102	A dynamical search space harmony search for unconstrained optimization problems	Jing Wang*; Wei Jiang; Liulin Cao; Qibing Jin

105	Sliding-Mode Control of a Wheeled Vehicle Using Neural Network Estimator	Anugrah Pamosoaji; Pham Thuong Cat; Keum-Shik Hong*
106	Automotive longitudinal speed pattern generation with acceleration constraints aiming at mild merging using model predictive control method	Wenjing Cao*; Masakazu Mukai; Taketoshi Kawabe; Hibaru Nishira; NORIAKI FUJIKI
107	Caterpillar Mechanism for a Portable Haptic Interface of Endoscopy Simulation	Yunjin Gu; Doo Yong Lee*
108	Numerical Solution for a Class of pursuit-evasion Problem in Low Earth Orbit	Songtao Sun*; qiuuhua zhang
111	A Measurement Based Approach to Mechanical Systems	Navid Mohsenizadeh; Hazem Nounou; Mohamed Nounou; Aniruddha Datta; Shankar Bhattacharyya*
114	Mechanical Property Control System for Cold Rolled Steel Sheet through Locally Weighted Regression Model	Hiroyasu Shigemori*
116	H-infinity Performance Analysis with Transients for Singular Systems	zhiguang feng*; James Lam; Shengyuan Xu; Shaosheng Zhou
118	Design of a Haptic Interface for Simulation of Needle Intervention	Seung Gyu Kang; Doo Yong Lee*
124	Design of Intelligent Optimal Energy Management System for Hybrid Power Sources	Rong-Jong Wai*; Shih-Jie Jhung
125	On-line Schedule Model for Reusable Equipment Maintenance and Support Resource in Wartime	Quan Jia*; Yaoyu Li
133	Multistability of a Class of Biological Systems	Yuanlong Li; Zongli Lin*
134	Global Adaptive Output Regulation for Output Feedback Nonlinear Systems with Integral ISS Inverse Dynamics	Dabo Xu; Jie Huang*; Zhong-Ping Jiang
135	An Augmented Neural Network Algorithm for Solving Singular Convex Optimization with Nonnegative Variables	Rendong Ge*
137	The influence of degree mixing patterns on synchronization paths	Mingyang Zhou*; Shimin CAI; Zhao Zhuo; Zhong-Qian Fu
153	Model free analysis and tuning of PID controller	zhiqiang zhu*; kun liu; Yuqing He; Junlong Qi; Jianda Han
154	Event-triggered control of multi-agent systems with suboptimal triggering	Yuan Fan*; Gang Feng
164	REFERENCE GOVERNOR FOR OUTPUT SMOOTHING OF RENEWABLE ENERGY GENERATION	Yutaka Tsubota; Genki Baba*; Kenko Uchida; Toru Jintsugawa; Yosuke Nakanishi
169	A Decentralized Control Algorithm Based on the DC Power Flow Model for Avoiding Cascaded Failures in Power Networks	Saleh AL-TAKROURI*; Andrey Savkin; Vassilios Agelidis
175	Study on the Operating Mode of SNS in EC Environment of China	Xiufeng Li*
178	Dual Estimation of Attitude and Parameters Considering Vibration based on GPS and IMU	Qi Xin; ZhongKe Shi*
186	Adaptive Sliding Mode Control Strategy Design for DSP-based Maglev Driving and Control System	Rou-Yong Duan; Jeng-Dao Lee*; Ming-Jui Wu
187	Exact-estimator-based Terminal Sliding Mode Control System Design	Jeng-Dao Lee*; Suiyang Khoo; Jia-Qi Lu
188	A Comparative Study of Two Control Schemes for Anti-Lock Braking Systems	Samuel John*; Jimoh PEDRO
190	On Modeling of Tall Linear Systems with Multirate Outputs	Mohsen Zamani*; Brian D. O. Anderson

191	Static output feedback adaptive integral sliding control for interconnected nonlinear systems	ESHAG LARBAH*; Ron Patton
192	State of Charge Management for PHEVs with Uncertain Distance to Recharge	Chris Manzie*; Prakash Dewangan; Gilles Corde; Olivier Grondin; Antonio Sciarretta
193	Controllability and Stabilizability of Higher-Order Nonholonomic Systems	Jaime Rubio Hervas; Mahmut Reyhanoglu*
195	Fuzzy Control for Balancing of a Two-Wheel Transpoatation Robotic Vehicle: Experimetal Studies	Seul Jung*; Hyunwook Kim
196	Compensation for Long Arm Payload by a Non Model-Based Disturbance Observer	Yeonggeol Bae; Seul Jung*
203	A Finite-time Generalized $\$H_2\$$ Gain Measure and Its Performance Criterion	Fenghua He*; Denggao Ji; Shuqi Zhang
204	Vector Control Lyapunov Functions as a Tool for Decentralized and Distributed Control	Zhong-Ping Jiang*; Karafyllis Iasson
205	Maximum Power Point Tracking of Directly Driven PV-RO Systems	Khaled Alshehri*; Moustafa Elshafei; Anwar Khalil Sheikh
207	Containment Control of Discrete-time Multi-agent Systems Based on Delayed Neighbors ⁻ Information	Shuai Liu; Lihua Xie*; Huansui Zhang
211	Experience-based identification and MPC for a methanol recovery distillation column	Bingqiang Huang; Yong Gu*; Hongye Su
213	A Theoretical Approach of the Generalized Hybrid Model Based on the Control of Repetitive Processes	Eugenia MINCA*
214	Position Feedback Pinning Control for Nonlinear Multi-agent Systems	Mingcan Fan; Zhiyong Chen*; Hai-Tao Zhang
215	Novel Voltage Control of 18 Level Multilevel Inverter	SAAD MEKHILEF*
216	Optimal Controller Design for a Railway Vehicle Suspension System Using Particle Swarm Optimization	Hazlina Selamat*; Siti Duranni Arang Bilong
217	Force Observer-Based Control for a Rehabilitation Hand Exoskeleton System	NIRVANA POPESCU; DECEBAL POPESCU; MIRCEA IVANESCU*; DORIN POPESCU; CRISTIAN VLADU; ILEANA VLADU
219	Compound Control for Intelligent Artificial Leg Based on Fuzzy-CMAC	hongliu yu; jinhua yi; ping SHI*
221	UMAY1: A Modular Humanoid Platform for Education and Rehabilitation of Children with Autism Spectrum Disorders	Pinar Boyraz*; Bora Yigit; Okan Bicer
223	Setpoints Compensation in Industrial Processes via Multirate Output Feedback Control	Shen Yin*; Fangzhou Liu; Huijun Gao; Jianbin Qiu; Tianyou CHAI; Jialu Fan
226	Input-to-state stability for switched nonlinear time-delay systems	wang yuee; Xi-Ming Sun*; Wei Wang; Jun Zhao
227	Rendezvous of Nonholonomic Multiple Unicycles with Connectivity Maintenance	Yutian Mao*; Hao Fang; Lihua Dou; Jie Chen
229	TRACKING PERFORMANCE AND DISTURBANCE REJECTION OF PNEUMATIC ACTUATOR SYSTEM	syed najib syed salim; Mohd Fuaad Rahmat*; Ahmad Athif Mohd Faudzi; Zool Ismail; Noorhazirah Sunar; Sharatul Izah Samsudin
230	Cognitive Radio Networks for Smart Grid Communications	Fang Liu; Jinkuan Wang*; Yinghua Han; Peng Han
231	Nonlinear Modal Space Decoupled PID Control of Flight Simulator Motion System	Yang Chifu*
234	Adaptive Flocking Control of Multiple Nonholonomic Mobile Robots With Limited Communication Ranges	Wang Wei*; Changyun Wen; Jiangshuai Huang

237	A Data Communication And Control System Based On Ethernet And CANBUS In AUV	Xinjing Huang; Yibo Li*; Shiju Jin
239	Adaptive consensus of multi-agent systems with unknown nonlinear dynamics	Hui Yu*; Xiaohua Xia
240	Minimum Energy Trajectory Planning Method for Robot Manipulator Mounted on Flexible Base	Akira Abe*
244	Passivity-Based Observer Design and Robust Output Feedback Control for Nonlinear Uncertain Systems	Wei Liu; Zhiming Wang*; Guoliang Chen; Laihua Sheng
246	A Cascade Controller Structure using an internal PID controller for a Hybrid Piezo-Hydraulic Actuator in Camless Internal Combustion Engines	Paolo Mercorelli*; Nils Werner
248	Adaptive Optimal Control Algorithm for Maturing Energy Management Strategy in Fuel-Cell/Li-ion-Capacitor Hybrid Electric Vehicles	Wei-Song Lin*; Yu-Chun Huang; Chen-Hong Zheng; Chao-Ming Lee
249	Dynamical Average Consensus in Networked Linear Multi-Agent Systems with Communication Delays	Jianqiang Hu*; Jinling Liang; Fangbin Sun
252	Robust Adaptive Neural Control of Automatic Train Operation Subject to Actuator Saturation	Shigen Gao; Hairong Dong*; Bin Ning; Yao Chen; Guanrong Chen
254	Quantized-data consensus of second-order multi-agent systems with directed topology	Weisheng Chen*; Wang Chao; Li Xiaobo
256	A new clustering technique for the identification of PWARX hybrid models	Zeineb Lassoued*; Kamel Abderrahim
260	On the Computation of Mixing Coefficients Between Discrete-Valued Random Variables	Mehmet Eren Ahsen; Mathukumalli Vidyasagar*
261	Graph Partitioning of Power Network for Emergency Voltage Control	Hasan Mehrjerdi*
262	Distributed Tracking for Networked Euler-Lagrange Systems Using Only Relative Position Measurements	Qingkai Yang*; Hao Fang; Yutian Mao
264	A Method for Decentralized Formation Building for Unicycle-like Mobile Robots	Andrey Savkin; Chao Wang*; Ahmad Baranzadeh; Zhiyu Xi; Hung Nguyen
266	Temperature Control Problem of Vibrational Viscometers Considering Heat Generation and Heat Transfer Effect of Oscillators	Ali AKPEK*
267	On-Line Continous Self-Calibration for Inertial Platform System with a Single Totally Free Axis	Lu Feng; Bo Wang*; Zhihong Deng; Shunting Wang
268	Efficient Input Variable Selection for Calibration Model Design	Koichi Fujiwara*; Manabu Kano
269	An Algorithm of Decentralized Encircling Coverage and Termination of a Moving Deformable Region by Mobile Robotic Sensor/Actuator Networks	Andrey Savkin; Zhiyu Xi*; Hung Nguyen
270	Rapid Alignment Method of INS with Large Initial Azimuth Error under Uncertain Flexure Disturbances	Liu Xin; Bo Wang*; Zhihong Deng; Shunting Wang
271	Feasible Approach to Control the Operation of Implantable Rotary Blood Pumps for Heart Failure Patients	Mohsen Bakouri*; Andrey Savkin; Abdul-Hakeem AlOmari; Robert Salamonsen; Einly Lim; Nigel Lovell

272	Model-based Fault Detection and Diagnosis Optimization for Process Control Rig	Ribhan Zafira Abdul Rahman*; Rubiyah Yusof; FATIMAH SHAM ISMAIL
276	Investigation of Interactions between Mechanical and Electrical Components of a Motion Platform	Evrin Onur ARI*; Erol Kocaoglan
277	A Note on Representation of Nonlinear Time-Varying Delay-Differential Equations as Time-Delay Feedback Systems	Tatsuya Yamazaki; Tomomichi Hagiwara*
279	Static LPV Feedforward Controller Synthesis for Linear Parameter Varying Systems	Yusuf ALTUN*; Kayhan GULEZ
280	Hyperstability Analysis of Switched Systems Subject to Integral Popovian Constraints	M. De la Sen; Santiago Alonso-Quesada*; Asier Ibeas
283	Bezier Approximation Based Inverse Dynamic Guidance for Entry Glide Trajectory	Tawfiqur Rahman*; Hao Zhou; Chen Wanchun
284	Improvement on Adaptive Forward Prediction Controller Using A Direct-Compensation Technique	Wei De Hxiao; Jia-Ying Tu*; Chih Ying Chen
285	Preliminary Feasibility Studies of Real-Time Substructuring Control Strategies	Chih Ying Chen; Jia-Ying Tu*; You-Chuan Chen; Wei De Hxiao
286	Distributed Control of Angle-constrained Circular Formations using Bearing-only Measurements	Shiyu Zhao; Feng Lin; K. M. Peng; Ben M. Chen*; Tong Heng Lee
287	An Weighted Error Controller for a Class of Distributed Parameter Systems	NIRVANA POPESCU; DECEBAL POPESCU; MIRCEA IVANESCU*
288	VB-AQKF-STF: A Novel Linear State Estimator for Stochastic Quantized Measurements Systems	Quanbo Ge*; chenglin wen; Xiangfeng Wang
289	A New Distributed Localization Method for Sensor Networks	Yingfei Diao; Zhiyun Lin; Minyue Fu*; Huanshui Zhang
290	Real-time Implementation of a Robust Hierarchical Controller for a Laboratory Helicopter	Hao Liu*; Geng Lu; Yisheng Zhong
291	Calculation of the least \mathcal{L}_1 measure for switched linear systems via similarity transformation	Meili Lin; Zhendong Sun*
293	Smart Pitch Control Strategy For Doubly Fed Wind Generation System Using Adaptive Neural Networks	Syed Ahmed Raza*; Noureddine Harid
294	Gradient Based Iterative Identification for Discrete Time Delay Systems	Saida Bedoui*; Majda Ltaief; Kamel Abderrahim
295	A Frequency-based Method for Complete Identification of Some Types of Wiener-type Plants Based on Relay Feedback	Željko Juri*; Hamza Šehovi*; Selma Hanjali*; Branislava Peruni*;
296	Second-order leader-following consensus of multi-agent systems with nonlinear dynamics and time delay via periodically intermittent pinning control	Xiaoling Wang*; Bo Liu; Housheng Su; Xiaofan Wang
297	Control The Photovoltaic Grid-Connected System Using Fuzzy Logic and Backstepping Approach	Nguyen Gia Minh Thao*; Kenko Uchida
298	Distributed Circumnavigation by Unicycles with Cyclic Repelling Strategies	Ronghao Zheng; Zhiyun Lin*; Minyue Fu; Dong Sun
299	Backstepping Control of Polymerization reactor	Amar Nath Samanta*

300	Hands Tracking with Self-occlusion Handling in Cluttered Environment	Bor-jeng Chen; Cheng-Ming Huang; An-Sheng Liu*; Ting-En Tseng; Li-Chen Fu
301	Rendering of Unfalsified PID Gain Sets for Parameter Space Control Design	Masami Saeki
302	Development of Power Assist System with Motion Estimation Using Model Predictive Control	Takahiko Mori*; Yuya Tanaka
303	A New Approach Based on Boundary Analysis of Reconstructed Phase Space for Fault Diagnosis	ilhan AYDIN*; Mehmet Karaköse; Erhan AKIN
304	A Model Predictive Control of Transparent Bilateral Teleoperation Systems Under Uncertain Communication Time-Delay	Ghoushkhanehee Seyyed Vahid; Alireza Alfi*
305	Adaptive Robust Fault-Tolerant Attitude Control of Spacecraft with Finite-Time Convergence	QIANG SHEN; Danwei Wang*; Senqiang Zhu; Eng Kee Poh; Tianqi Liu
306	Numerical Analysis of a Reparable Multi-State Device	Houbao XU*; Weiwei Hu
307	Necessary and Sufficient Condition of Consensus for Affine Multi-Agent Cooperative Systems under Time-Varying Directed Networks	Jidong Jin*; yufan zheng
309	Neural Network Based Terminal Iterative Learning Control for Tracking Run-Varying Reference Point	Tianqi Liu; Danwei Wang*; Ronghu Chi; QIANG SHEN
316	Input-Output Finite-Time Stability of Positive Switched Linear Systems with State Delays	Shipei Huang; Hamid Reza Karimi; Zhengrong Xiang*
317	A Riesz Basis Approach to Exponential Stability in Thermoelasticity of Type III	Jing Wang*; Jun-Min Wang
319	Non-fragile Fuzzy Control Design for Nonlinear Time-Delay Systems	Baharak Makki; Bahador Makki; Hamid Reza Karimi*
320	Data-based Modeling of Vehicle Collision by LPV-ARMAX Model Approach	Qiugang Lu; Witold Pawlus; Hamid Reza Karimi*; Kjell Gunnar Robbersmyr
321	Wavelet Network based Online Sequential Extreme Learning Machine for Dynamic System Modeling	Samsul Noor*; Dhiadeen Salih; Mohammad Hamiruce Merhaban; Raja Kamil
322	Duopolistic dynamics in markets with competitive advertising and churn	Amit Bhaya*; Eugenius Kaszkurewicz
323	Adaptive Control Using Multiple Parallel Dynamic Neural Networks	Chao Jia; Xiaoli Li*; Dexin Liu; Dawei Ding
325	Finite-time consensus tracking of multiple coupled harmonic oscillations via bounded control	Haibo Du*; Yigang He; Yingying Cheng
327	Design of optimal disturbance cancellation controllers for sinusoidal output disturbances via loop transfer recovery	Tadashi Ishihara*; Hai-Jiao Guo
328	Computation of Parametric Convergence Bound and Parametric Convergence Margin for Volterra series Expansion	Zhenlong Xiao; Xingjian Jing*
332	On Design of Multi-rate Sampled-Data Output Feedback by Maximizing RSR	Xia yu Li*; Hui liang Jin; Qing chang Zhong
333	Modeling and Analysis of Stray Light Impact on Coarse Sun Sensor	Xiaopeng Liu*; Zhenyan Zhao; huan wang; Yuanqing Xia
334	Self-Tuning Dynamic Matrix Control of Two-Axis Autopilot For Small Aeroplanes	Drago Matko*; Tine Tomažič; Matija Arh; Igor Škrjanc
336	The Construction method of GIS for Autonomous Vehicles	Meiling Wang*; Yong Yu; Mengyin Fu; Yi Yang; Tong Liu
337	A Control Design Method For Complex Systems Using Frequency Domain Data	Sofiane Khadraoui*; Hazem Nounou; Mohamed Nounou; Aniruddha Datta; Shankar Bhattacharyya

338	Distributed Adaptive Output Agreement in a Class of Multi-Agent Systems	Veysel Gazi*
339	Coordinated Adaptive Control for Formation Flying Vehicles with a Time-Varying Orbital Velocity	Yang-yang Chen*; Yuping Tian
341	Repetitive Control of an Artificial Muscle Actuator	Mehmet Itik*
343	H ∞ Consensus Tracking in Sensor Networks with Time-Varying Sensing Period	Ya Zhang*; Yuping Tian
344	Stabilization of Linear Discrete-time Periodic Systems with Uncertain Period	Jianbo Lu*; Dewei Li; Yugeng Xi
345	Pitch/Yaw Momentum Position Control of Roll Momentum Biased Satellite System	kyunghyun oh*; hae yeong gwon
346	Image Processing Based Defuzzification Method for Type-2 Fuzzy Systems	Mehmet Karaköse*; Semih Makinist
347	A stability criterion for fractional-order systems with α -order in frequency domain: The $1 < \alpha < 2$ case	Zhe Gao; Xiao-zhong Liao*; Shan Bo; Hong Huang
348	Locating WiFi Access Points in Indoor Environments using Non-monotonic Signal Propagation Model	Saeed Varzandian*; Hasan Zakeri; sadjaad ozgoli
350	Control for Quadruped Robots in Trotting on Horizontal and Slanted Surfaces	Jeong Hoon Lee; Jong Hyeon Park*
351	Dominant Three Pole Placement in PID Control Loop with Delay	Pavel Zitek*; Jaromir Fiser; Tomas Vyhlidal
352	On the Stabilization of an Irrigation Channel with a Cascade of 2 Pools: A linearized case	dongxia zhao*; Jun-Min Wang
355	A Hybrid PID and Direct Adaptive Neural Controller for Active Control of Non-Linear Hysteretic Base-Isolation building	Subasri Ramaiah*; Natarajan Annadasanpalayam Mathiyan; Suresh Sundaram; Jianliang Wang
356	Multi-scale Predictive Modeling for Achromic Power in a Lithopone Calcination Process Based on EMD	Jing YAO*; Qiliang Du
358	A Data-driven Methodology for Solving the Control Strategy of Descriptor Systems	Daqing Zhang*; Li Mengmeng
360	Stability Analysis of Social Foraging Swarm with General Nonlinear Attraction and Repulsion Forces and Interaction Time Delays	Weiyun Pan; yufan zheng*
361	Robust Stability Analysis of an Optical Parametric Amplifier Quantum System	Ian Petersen*
367	A Fault-Tolerant Control Scheme for a Hovering Underwater Vehicle subject to Region Function Formulation	Zool Ismail*; Ahmad Athif Mohd Faudzi; Matthew Dunnigan
368	Constant Velocity Control of a Miniature Pantograph with Image Based Trajectory Generation	Eray A. Baran*; Edin Golubovic; Tarik E. Kurt; Asif Sabanovic
369	Adaptive Discrete-time Control with Dual Neural Networks for HFV via Back-stepping	Jianxin Ren; Xingmei Zhao*; Bin Xu
370	An LMI Framework to Design Robust MPC for a class of Nonlinear Uncertain Systems	Valiollah Ghaffari; Seyed Vahid Naghavi*; Ali Akbar Safavi
371	Event-triggered Control for Discrete-time Multi-agent Networks with Communication Delays	Lulu Li*; Daniel Ho; Yuanyuan Zou; Chi Huang; Jianquan LU
374	An Algebraic Approach to Hierarchical LQR Synthesis for Large-Scale Dynamical Systems	Daisuke Tsubakino*; Taiki Yoshioka; Shinji Hara

376	On Smith Predictor-Based Controller Design for Systems with Integral Action and Time Delay	Ugur Tasdelen*; Hitay Ozbay
378	Consensus Control of A Class of Nonlinear Systems	Zhengtao Ding*
379	Improved future model prediction and robust MPC design for LPV systems with bounded rates of parameter variations	pengyuan zheng*; Dewei Li; Yugeng Xi
381	Passivity-based Finite-time Attitude Control Problem	Shuochen Liu; Junyong sun; Zhiyong Geng*
382	Combating the Effects of Delay in Periodic-Review Perishable Inventory Systems	Przemyslaw Ignaciuk*
383	Nonlinear Inventory Control with Discrete Sliding Modes in Systems with Multiple Delayed Supply Options	Przemyslaw Ignaciuk*
384	Virtual constraints for the underactuated walking design: comparison of two approaches	Milan Anderle*; Sergej Celikovsky; Haroldo Ibarra
388	Stochastic Stability Conditions for A Class of Neutral Markovian Jump Systems	Xinghua Liu*; Hongsheng Xi
389	LMI Based Model Order Reduction Considering the Minimum Phase Characteristic of the System	gholamreza khademi; haniyeh mohammadi; Maryam Dehghani*
390	Backstepping Position Control of Two-Mass Systems with Unknown Backlash	Mirhamed Mola*; Alireza Khayatian; Maryam Dehghani
392	A Guidance Strategy for Multi-player Pursuit and Evasion Game in Maneuvering Target Interception	Ting-Kuo Wang*; Li-Chen Fu
394	Velocity Planning to Optimize Traction Losses in a City-Bus Equipped with Permanent Magnet Three-Phase Synchronous Motors	Paolo Mercorelli*
395	Quantized State Feedback Stabilization with Signal-to-Noise Ratio Constraints	Yu Feng*; Xiang Chen; Guoxiang Gu
397	Low-Oscillation Command Switch-Times for Relay-Driven Cranes with Asymmetrical Acceleration and Deceleration	Kelvin Chen-Chih Peng*; William Singhose
398	A Super-Twisting Algorithm for Systems of Relative Degree More Than One	Michael Basin*; Pablo Rodriguez-Ramirez
399	Cooperative Electricity Consumption Scheduling and Pricing for Future Residential Smart Grid	Guohua Jiang; Li Yu; Yuan Wu*; WenZhan Song
408	Mean-Square Filtering Problem for Stochastic Polynomial Systems with Gaussian and Poisson Noises	Michael Basin*; Pablo Rodriguez-Ramirez
409	Extremely Short-term Wind Speed Prediction Based on RSCMAC	Ching-Tsan Chiang*
410	Multivariable PID Controllers for Dynamic Process	Norhaliza Abdul Wahab*; Mashitah Che Razali; Mohd Fuaad Rahmat; Sharatul Izah Samsudin
413	Control Strategies for Removing Nitrogen Compounds in Wastewater Treatment Plants	Henry Rafael Concepcion; Darko Vrecko; Montse Meneses*; Ramon Vilanova
415	A Sensory Data Tracking Approach to Bipedal Gait Compensation Control on Slope Surfaces	Chiao-Min Wu; Kai-Tai Song*
417	FRIT and RLS-Based Online Controller Tuning and Its Experimental Validation	Yuji Wakasa*; Ryo Azakami; Kanya Tanaka; Shota Nakashima

418	Using Bearing-sensitive Infrared Sensor Arrays in Motion Localization for Human-following Robots	Yuebin Yang; Guodong Feng; Shaoxian Wang; Xuemei Guo; Guoli Wang*
419	Control of Omni-Directional Mobile Vehicle for Obstacle Avoidance Using Potential Function Method	Giang Hoang; Hak Kyeong Kim; Sang Bong Kim*
420	Oscillation Suppressing for an Energy Efficient Bridge Crane Using Input Shaping	Youmin Hu*; Joshua Vaughan; William Singhose
421	A New Sparse Reconstruction Algorithm for Device-free Localization with Sensor Network	Zhiyong Yang; Kaide Huang; Guoli Wang*
423	Consensus Conditions of Continuous-Time Multi-Agent Systems With Relative-State-Dependent Measurement Noises and Matrix-Valued Intensity Functions	Tao Li*; Fuke Wu; Ji-Feng Zhang
425	Sliding-mode Observer Design for Sensorless Vector Control of AC Induction Motor	PHUC THINH DOAN; Thanh Luan Bui; Hak Kyeong Kim; Sang Bong Kim*
426	Experimental Testing of Liquid Slosh Suppression in a Suspended Container with Compound Pendulum Dynamics	Ali AlSaibie; William Singhose*
427	Fuzzy Sampled Controller Design for Consensus of Multiagent Networks with Varying Connections	Wenjun Xiong*; Wenwu Yu; Jinhua Lu; Xinghuo Yu
428	Development Laser Sensor Based AGV for Trajectory Tracking	Thanh Luan Bui; PHUC THINH DOAN; Hak Kyeong Kim; Sang Bong Kim*
430	A Lyapunov Method Based Multiple-Model Adaptive Actuator Failure Compensation Scheme for Control of Near-Space Vehicles	Chang Tan; Gang Tao*; xuelian yao; Bin Jiang
431	Consensus Control of Switching Directed Networks with General Linear Node Dynamics	Guanghui Wen; Wenwu Yu*; Jinde Cao; Guoqiang Hu; Guanrong Chen
432	Robust Adaptive Attitude Synchronization of Rigid Body Networks with Unknown Inertias	Iman Fadakar*; Baris Fidan; Jan Huissoon
433	Control of Omni-directional Gaits for Six Legged Robot	Woo-Young Jeong; Bong-Huan Jun; Hak Kyeong Kim; Sang Bong Kim*
434	A Method for Performance Improvement of PID Control by Dual-Input Describing Function (DIDF) method	YeonWook Choe*
435	On sampled-data extremum seeking control via stochastic approximation methods	Sei Zhen Khong*; Ying Tan; Dragan Nesic; Chris Manzie
436	Double Resonant Controller for Fast Atomic Force Microscopy	Sajal Das*; Hemanshu Pota; Ian Petersen
437	Cooperative Area Reconnaissance for Multi-UAV in Dynamic Environment	Jie Chen; Wenzhong Zha*; Zhihong Peng; Jian Zhang
439	Velocity Estimation and Control of 3-DOF Helicopter based on Optical Flow	Lianhua Zhang*; Hao Liu; zongying shi; Yisheng Zhong
440	Learning and Information for Dual Control	Tansu Alpcan*; Iman Shames; Michael Cantoni; Girish Nair
441	Satellite Map based Quantitative Analysis for 3D World Modeling of Urban Environment	Hyun Chul Roh*; Taek Jun Oh; Yungeun Choe; Myung Jin Chung
444	New Input-Output Pairing Based on Eigenvalue Contribution Measures	Seyedadel AhmadiTabatabaei*; Mohammad Aldeen
445	Depth and normal vector identification of an unknown slope from a UAV using a single camera	ZHICHAO LIU; Jianliang Wang*; Eng Kee Poh; Suresh Sundaram

446	Malicious data injection attack against power system state estimation based on orthogonal matching pursuit	Chao Zhang; Aimin Zhang*; Hang Zhang; Zhigang Ren; Yingsan Geng
448	Neural "C Adaptive Control for Electro Hydraulic Servo System	zohreh alzahra Sanai Dashti*; milad gholami; Mahdi` Aliyari Shoorehdeli; Mohammad Teshnehab
450	Model Predictive Controller Performance Monitoring Based on Impulse Response Identification	Zhong Zhao*; Feng Song; Hailiang Yang
451	A Combined Backstepping and Wavelet Neural Network Control Approach for Mechanical System	Chiung-Chou Liao*; Chiu-Hsiung Chen; Ya-Fu Peng
452	Observer-Based Fuzzy Control Design for Discrete-Time T-S Fuzzy Bilinear Stochastic Systems with infinite-distributed delays	jiangrong LI*
453	Adaptive Control of a Three-Agent Surveillance Swarm with Constant Velocity Constraint	Samet Guler; Nasrettin Koksal; Baris Fidan*
455	On Networked Non-cooperative Games -- A Semi-tensor Product Approach	Daizhan Cheng; Fenghua He*; Tingting Xu
458	Stability Analysis of Symmetrical Two-Route Traffic Flow with Feedback Information Delay	Yuki Iguchi*; Kazuma Sekiguchi; Mitsuji Sampei
459	Faults Diagnosis of Induction Machine by Using Feed-forward ANNs and GAs	MOURAD HASNI*
461	Robust Adaptive Control of Nonlinear Systems with Unknown State Delay	Alper Bayrak; Enver Tatlicioglu*; Baris Bidikli; Erkan Zergeroglu
462	Optimization Based Algorithm for Correction of Systematic Odometry Errors of Mobile Robot	Aida Mrzić; Senka Krivić; Jasmin Velagić*; Nedim Osmić;
464	Robust Unscented Kalman Filter via l1 Regression and Design Method of Its Parameters	Yasuaki Kaneda*; Yasuharu Iriuki; MASAKI YAMAKITA
466	A Discrete-Event Traffic Simulation Model for Multilane-Multiple Intersection	Azura Che Soh*; Rubiyah Yusof; Mohammad Hamiruce Merhaban
467	A Bias-Compensated Affine Projection Algorithm for Noisy Input Data	Sang Mok Jung; Poogyeon Park*
468	LPV Controller Design with Multiple Parameters for the Nonlinear RTAC System	Nam Kyu Kwon; Bum Yong Park; Poogyeon Park*
469	Pricing-based Resource Allocation With Security Requirements for OFDM Networks in Real-Time Electricity Market	Yue Zhang; Bo Yang*; Cailian Chen; Xinping Guan
470	Online ANFIS Controller Based on RBF Identification and PSO	Moltajaei Farid ali*; S. Masoud Barakati; Seifipour Navid
472	A New Method of Direct Data-driven Predictive Controller Design	Hua Yang*; Shaoyuan Li
474	Moving Base Disturbance Suppression Method of Rotary INS Based on Rotation Angular Rate	Yuan Zhou; Zhihong Deng*; Bo Wang; Mengyin Fu; Shunting Wang
475	Fuzzy-Neural-Network Control for Robot Manipulator Via Sliding-Mode Design	Rong-Jong Wai*; Rajkumar Muthusamy
479	Traffic Scenes Invariant Vehicle Detection	Yan Liu*; xiaqing Lu; jianbo xu
480	Wide Area Equipment Protection System based on Substation Panoramic Information	Jungang Li; Aimin Zhang*; Hang Zhang; Chao Zhang; jingjing huang; Zhang Lei; Yingsan Geng
481	Bearing Angle Measurement Based Cooperative Pursuit-Evasion Game in Non-convex Environments	Di Guo; Gangfeng Yan; Zhiyun Lin*
482	Study on the pressure feedforward control of electro-hydraulic load system	biao zhang*; Yanliang Dong
483	Control Algorithm of a Smart Grid Device for Optimal Radial Feeder Load Reconfiguration	Dan Valentin Nicolae*

485	Takagi-Sugeno Fuzzy Observer and Extended-Kalman Filter for Adaptive Payload Estimation	Selami Beyhan*; Zsofia Lendek; Musa Alci; Robert Babuska
487	Model-free and model-based time-optimal control of a badminton robot	Melody Liu; Bruno Depraetere*; Greg Pinte; Ivo Grondman; Robert Babuska
491	A New Approach to Map Joining for Depth-Augmented Visual SLAM	Chien-Hung Liu; Kai-Tai Song*
493	Development of power add on drive wheelchair and its evaluation	Yoon Heo; Eung Pyo Hong*
494	Implementation of a fractional PD controller tuned by genetic algorithm for a Sterward platform	Yu Zhong*; Abhishek Dutta; Cosmin Copot; Clara Mihaela Ionescu; Robin De Keyser
497	A Pseudospectral Approach to Ascent Trajectory Optimization for Hypersonic Air-Breathing Vehicles	Wei Shi*; Zhongliang Jing; Yongsheng Yang; Hui Ge
498	Modeling Overtaking Behavior in Virtual Reality Traffic Simulation System	YUE YU*; Abdelkader EL KAMEL; Guanghong GONG
499	Robust LQ Control with Adaptive Law for MIMO descriptor system	Yusuke Watanabe; Naruya Katsurayama; Isao TAKAMI; Gan CHEN*
501	Finite Time Stability Control Based on Higher-Order Sliding Mode for TORA System	Jie YANG*; Qinglin WANG; Yuan Li
503	Singularity-Free Adaptive Control for Uncertain Omnidirectional Mobile Robots	Jeng-Tze Huang*; Tran Van Hung
504	Full and Partial Parametrizations of Stabilizing Controllers with Two-Stage Compensator Designs	Kazuyoshi MORI*
506	Connectivity Control on Lie Groups	Aykut Satici*; Mark Spong
507	Performance Analysis of MPC Based on Structures Subject to No-Model Input/Output Combinations	Leandro Massaro*; Alain Potts; Claudio Garcia
508	Energy Consumption Optimization for Mobile Robots in Three-dimension Motion Using Predictive Control	Mostafa Yacoub*; Dan Neculescu; Jerzy Sasiadek
509	The Parameterization of All Stabilizing Two-Degree-of Freedom Simple Multi-Period Repetitive Controllers with Specified Frequency Characteristic	Tatsuya Sakanushi; Yun Zhao; Jie Hu; Satoshi Tohnai; Kou Yamada*
510	Lateral Control of UAVs: trajectory tracking via Higher Order Sliding Modes	Ussama Ali*; Muhammad Zamurad Shah; Raza Samar; Aamer Iqbal Bhatti
511	Communication Disturbance Observer Approach to Control of Integral Plant with Time Delay	Mumin Tolga Emirler; Bilin Aksun Guvenc*; Levent Guvenc
512	FA System Integration using Robotic Intelligent components	Young-Ho Choi*; Jung-Woo Lee; Sung-Jo Yun; Jin-ho Suh; Sung-Ho Hong; Jong-Deuk Lee
513	Micro Position Control of a Designed 3-PRR Compliant Mechanism Using Experimental Models	Merve Acer*; Asif Sabanovic
514	The Study on Tracking Algorithm for the Underwater Target : Applying to Noise Limited Bi-Static Sonar Model	hyun seung son; Jin Bae Park*; Young Hoon Joo
517	Sliding Mode Based Direct Torque Control of Three-Level Inverter Fed Induction Motor Using Switching Vector Table	Tanvir Ahammad*; Abdul Rahiman Beig; Khalifa Hasan Al Hosani
518	Rejection of sinusoidal disturbances with time varying frequency for discrete multivariable systems: adaptive control with Q-parametrization	Khadija Dehri*
519	A Robust Dynamic Inversion Technique for Asymptotic Tracking Control of an Aircraft	Ilker Tanyer; Enver Tatlicioglu*; Erkan Zergeroglu

522	A Simulation Study of GPS/INS Integration for Use in ACC/CACC and HAD	Ilker Altay*; Bilin Aksun Guvenc; Levent Guvenc
526	H infinity loop shaping for positioning control system with nonlinear friction	Yuki Sugiyama; Naito Masakazu; Isao TAKAMI; Gan CHEN*
527	Synthesis Method of Gene Regulatory Networks Having Desired Expression-Pattern Transition Sequences	Yoshihiro Mori*; Yasuaki Kuroe
528	Cooperative Coverage of Mobile Robots with Distributed Estimation and Control of Connectivity	Xiaoli Li*; Shuguang Zhao; Haiqin Xu
531	Image Classification with Bag-of-Words Model Based on Improved SIFT Algorithm	Huilin Gao*
532	Unscented Kalman Filter for an orientation module of a quadrotor mathematical model	Jaroslaw Goslinski*; Stanislaw Gardecki; Wojciech Giernacki
533	High Precision Control of a Walking Piezoelectric Motor in Bending Mode	Zhenishbek Zhakypov*; Edin Golubovic; Asif Sabanovic
535	On Initial Alignment Methods for Manned Lunar Ascent Module	Qingzhe Wang; ping wang; Linli Guo; Zhihong Deng*
536	A step forward to pinning control of complex networks: finding an optimal vertex to control	Wenwu Yu*; Jinhua Lu; Xinghuo Yu; Guanrong Chen
537	Research on the Detection and Control Algorithm of Magnetic Navigation Based Wheeled Mobile Robot	Guan Sun*; Dan Feng; yutong zhang; Dongdong Weng
538	Energy Consumption Scheduling in Smart Grid: A Non-Cooperative Game Approach	Kai Ma*; Guoqiang Hu; Costas Spanos
540	Application of Intelligent Systems and DSP to Landing Controller Design	Jih-Gau Juang*
541	Adaptive TSKCMAC-Identification-Based Intelligent Backstepping Control for Nonlinear Chaotic Systems	Ya-Fu Peng*; Chih-Hui Chiu
543	Time Delay Sensitivity Analysis in a Wireless Network Control System Using LMI Approach	Mohammad Mahdi Delbari*; Mohammad Taghi Hamidi Beheshti; Amin Ramezani
544	Stabilizing Multiple Sliding Surface Control of Quadrotor Rotorcraft	Nikola Shakev; Andon Topalov*; Kostadin Shiev; Okyay Kaynak
546	Parameter Identification of Bacterial Growth Bioprocesses using Particle Swarm Optimization	Sendrescu Dorin*; Monica Roman
547	Data loss and delay distribution of wireless sensor networks	Tian Zheng*; Abdelkader EL KAMEL; Shaoping Wang
548	Improving Quadrotor Three Axes Stabilization Results Using Empirical Results and System Identification	Ovunc Elbir; Batmaz Anil Ufuk; Cosku Kasnakoglu*
551	Sliding Mode Online Learning Algorithm for Type-2 Fuzzy CMAC Networks	Sevil Ahmed; Kostadin Shiev; Andon Topalov*; Nikola Shakev; Okyay Kaynak
552	Type-2 Fuzzy Based Quadrotor Control Approach	Ismail Ilhan*; Mehmet Karaköse
554	Design and application of gain-scheduling control for a Hover: parametric H loop shaping approach	Renan Pereira*
555	Time-Varying Formation control for Nonholonomic Wheeled Mobile Robots via Synchronization	Ibrahim Sanhoury*; Shamsudin Amin; Abdul Rashid Husain
556	Feasible Distributed MPC Scheme for Network Systems Based on an Inexact Dual Gradient Method	Ion Necoara*; Andrei Valentin Nedelcu; Dragos Nicolae Clipici
557	GA-based Sliding Mode Controller for Yaw Stability Improvement	Norhazimi Hamzah*; Yahaya Sam; Hazlina Selamat
559	Hinf controller design for the synchronization of a hyper-chaotic system	Bo Wang; Hamid Reza Karimi*; Peng Shi

560	Chaos synchronization for a class of chaotic systems via Hinf control technique	Peng Shi; Hamid Reza Karimi*; Bo Wang
566	Model-free learning of wire winding control	Abdel Rodriguez; Peter Vrancx*; Ann Nowe; Erik Hostens
567	Adaptive kernel principal component analysis for nonlinear dynamic process monitoring	Mohamed-Faouzi Harkat*; Chouaib Chakour; messaoud Djeghaba
569	A Mechanism for Surgical Tool Manipulation	Basem Yousef*; Farah Aiash
571	RBF Neural Network Controller based on OLSSVR	Kemal UCAK*; Gulay Oke
572	State Estimation in Discrete-Time Nonlinear Stochastic Systems Subject to Random Data Loss	S.M. Mahdi Alavi; Mehrdad Saif*; Bahram Shafai
573	Performance limitations in the control of LTI plants over fading channels	Alejandro Maass*; Eduardo Silva
576	Central Energy-to-Peak Filter Design for Linear Systems	Michael Basin*; Manuel Serna
578	Robot Aided Passive Rehabilitation using Nonlinear Control Techniques	Mohammad Habibur Rahman*; Philippe Archambault; Maarouf Saad
580	System Identification and Robust Controller Design for the Autopilot of an Unmanned Helicopter	Ahmad Safaee*
582	Control of the relative movement of hydraulically driven linear moving parts.	Jarissa Maselyne*; Robin De Keyser
584	Further results on stabilization over additive white noise channels subject SNR constraints	Francisco Vargas*; Eduardo Silva; Jie Chen
585	Modeling and Control of an Electric Drive System with Continuously Variable Reference, Moment of Inertia and Load Disturbance	Alexandra-Iulia Stinean; Stefan Preitl; Radu-Emil Precup*; Emil M. Petriu; Claudia-Adina Dragos; Mircea-Bogdan Radac
586	Localization of an Autonomous Underwater Vehicle Using a Decentralized Fusion Architecture	Moslem Karimi; Mohammad Bozorg*; Alireza Khayatian
588	Open-Loop Nash Equilibrium Problem in Polynomial Stochastic Differential Games with Incomplete Information	Manuel Jimenez*; Michael Basin; Celeste Rodriguez; Pablo Rodriguez-Ramirez
589	A new PID auto-tuning strategy with operational optimization for MCFC systems	Yujin Cheon; Donghyun Lee; Su Whan Sung; In-Beum Lee*
590	On the effect of adding frequency-response-constrained input channels on the achievable performance of discrete-time control systems	Ignacio Latorre*; Eduardo Silva; E. Salgado Mario
591	Intelligent Systems Based Solutions for the Kinematics Problem of the Industrial Robot Arms	Emre Sarıyıldız; Kemal UCAK*; Kouhei OHNISHI; Gulay Oke; Hakan Temeltas
592	A new iterative online dynamic identification method of robots from only force/torque data	Maxime Gautier; Anthony Jubien*; Alexandre Janot
593	Effectiveness of the DIDIM method compared with a usual CLOE method for parameter identification of robot dynamics	Anthony Jubien*; Maxime Gautier; Alexandre Janot
596	A Novel Method for Indirect Estimation of Tire Pressure	Selim Solmaz*
601	Sensor/Actuator system for Internet delays and packet losses	Miguel Diaz-Cacho*
602	A Statistical Fault Detection Strategy using PCA based EWMA Control Scheme	fouzi harrou*; Mohamed Nounou; Hazem Nounou

604	Digital AFC Control of a Three-Phase Three-Wire Unity-Power-Factor PWM Rectifier	Marcos Orellana*; Robert Griñaldo
605	Leader-follower formation control of nonholonomic wheeled mobile robots using only position measurements	Hasan Poonawala*; Aykut Satici; Mark Spong
606	Control of Solid Oxide Fuel Cells: An Overview	Marvin Leung; Gunhyung Park; Verica Radisavljevic-Gajic*
608	Spectral features of ZVD shapers with lumped and distributed delays	Tomas Vyhlidal*; Vladimir Kucera; Martin Hromcik
609	Stabilizing Control of an Autonomous Bicycle	Harun Yetkin*; Umit Ozguner
610	Closed-Loop Nonlinear Adaptive Control of Anti-angiogenic Tumor Therapy	UGUR HASIRCI*; Richard Groff; Timothy Burg
611	A Self-Aligning Underwater Navigation System Based on Fusion of Multiple Sensors Including DVL and IMU	Prashanth Krishnamurthy; Farshad Khorrami*
612	A Sub-principal Component of Fault Detection (PCFD) Modeling Method and Its Application to Online Fault Diagnosis	Chunhui Zhao*; Li Wenqing; Furong Gao; Youxian Sun
613	Optimal Residential Load Scheduling in Smart Grid: A Comprehensive Approach	Bo Chai; Zaiyue Yang*; Jiming CHEN
615	Robust Passivity-Based Surge Control of Compressors via Feedback Linearization	Gholamreza Sari; Ouassima Akhrif; Lahcen Saydy*
618	Stereo Vision Based Robots : Fast and Robust Obstacle Detection Method	Masoud Samadi; Mohd Fauzi Othman*; Shamsudin Amin
621	Modeling and Control of Rocking in Cable-Riding Systems	Joshua Vaughan*
630	The Effect of Measurement for Time Synchronization Error in the Tightly Coupled GPS/INS Integration	Cheol-Kwan Yang; Duk-Sun Shim*
631	Control of Soccer Robots Using Behaviour Trees	Rahib Abiyev*
634	Modeling, Control and Simulation of DFIG for Maximum Power Point Tracking	Hadi Kanaan*
639	Multiresolution Wavenet PID Control for Global Regulation of Robots	Luis Enrique Ramos-Velasco*; Fabian Alonso Diaz Lopez; Omar Arturo Dominguez Ramirez; Vicente Parra Vega
640	Performane evaluation of non-minimum phase linear control systems with fractional order partial pole-zero cancellation	nazli khalili zadeh mahani*; Ali Khaki Sedigh; Farshad Merrikh Bayat
641	A Unified Framework for State Estimation of Nonlinear Stochastic Systems with Unknown Inputs	Chien-Shu Hsieh*
642	Approximation of a thermal diffusive interface fractional-order system "C Part 1: application to a semi-infinite plan	ROY ABI ZEID DAOU*; Xavier MOREAU; Riad ASSAF; Fady CHRISTOPHY
643	Approximation of a thermal diffusive interface fractional-order system "C Part 2: application to a finite plane	ROY ABI ZEID DAOU*; Xavier MOREAU; Riad ASSAF; Fady CHRISTOPHY
644	Correlation Analysis of Cutting Force and Acoustic Emission Signals for Tool Condition Monitoring	Z.W. Zhong*
645	Implementation of Micro-inertial Measurement/GPS Combinatorial Attitude Measurement System	Xiaorong Shen*; Yueming Wang; Rongsheng Dong
646	A Non-Communicating Multi-Robot System with Switchable Formations	Ahmet Cezayirli; Feza Kerestecioglu*
647	Multi-variable Double Resonant Controller for Fast Image Scanning of Atomic Force Microscope	Sajal Das*; Hemanshu Pota; Ian Petersen
648	A Local Information Criterion for Order Identification of Nonlinear ARX Systems	Wen-Xiao Zhao*; Han-Fu Chen; Erwei Bai; Kang Li

650	The development of electromechanical valve actuator and the comparison with the camshaft driven system	Zeliha KAMIS KOCABICAK*; "brahim YÜKSEL; Elif Erzan Topçu
652	Humanoid Robot Orientation Stabilization by Shoulder Joint Motion During Locomotion	Selim Ozel; Sefik Emre Eskimez; Kemalettin Erbatur*
653	A Ground Reaction Force Sensor Fault Detection and Recovery Method based on Virtual Force Sensors for Walking Biped Robots	Iyad Hashlamon; Kemalettin Erbatur*
654	Shop-floor controller based on RT-middleware technology	Ferenc Tajti*; Bence Kovacs; Geza Szayer
657	A Novel Apparatus for Motion Control Experiments	Manh-Tuan Ha*; Chul-Goo Kang
658	Data-driven Based Predictive Controller Design for Vapor Compression Refrigeration Cycle System	Xiaohong Yin; Shaoyuan Li*; Wen-Jian Cai
659	Multiple Fault Diagnosis using mathematical models	lotfi mhamdi; hedi dhouibi; noureddine liouane; zineb abazi*
660	Defect Detection and Width Estimation in Natural Gas Pipelines using MFL Signals	Mojtaba Rostami Kandroodi*; Babak Nadjar Araabi; Majid Nili Ahmadabadi; Farshad Shirani
665	Fault Tolerant Synchronization for a Class of Uncertain Chaotic Systems versus External Disturbances using Fuzzy Sliding Mode Control	Faezeh Farivar*; Mojtaba Rostami Kandroodi
666	Multivariable Input-Output Linearization Sliding Mode Control of DFIG Based Wind Energy Conversion System	akbar tohidi; ali shamsaddinlou*; Ali Khaki Sedigh
667	Study of Multiple Model Predictive Control On a pH Neutralization Plant	ali shamsaddinlou*; Alireza Fatehi; Ali Khaki Sedigh
671	Omni-directional spherical mobile system control	Chih-Hui Chiu*; Ya-Fu Peng
678	Energy Transfer Modelling of Thermoacoustic Engines with Boundary Resonant Control	Boe-Shong Hong*; Chia-Yu Chou; Tsu-Yu Lin
680	Iterative Learning Control Method for Permanent Magnet Synchronous Liner Motor based on Vector Control	Rong-min CAO*; zhong su; Jiuhe wang; Qing LI
681	Adaptive Unstructured Road Detection Using Close Range Stereo Vision	Kadri Bugra Ozutemiz*; Akif Hacinecipoglu; Bugra Koku; Ilhan Konukseven
683	A Trajectory Prediction Algorithm Based on Fuzzy Rectification for Spinning Ball	Ren Yanqing*; Zaojun Fang; de xu; min tan
685	Robust Smoothing for Discrete-Time Uncertain Nonlinear Systems	Abhijit Kallapur*; Ian Petersen
686	An Iterative Predictive Learning Control Approach With Application to Train Trajectory Tracking	Heqing Sun; zhongsheng hou*
688	Optimized Real-Time Soft Analyzer for Chemical Process Using Artificial Intelligence	Mohammad Mahdi Karimi; Alireza Fatehi*; Reza Ebrahimpour
691	Controllability of Higher Order Switched Boolean Control Networks	Lequn Zhang; Jun-e Feng*; Min Meng
693	Neural Network based Model Predictive Control Performance Monitoring ja ja a data-driven approach	Lu Wang; Ning Li*; Shaoyuan Li
694	A New Algorithm for Decomposition Problem of Binary Fuzzy Relations	Hongbiao Fan; Jun-e Feng*; Lequn Zhang
695	VF-RRT: Introducing Optimization into Randomized Motion Planning	Inyoung Ko; Kim Beobkyoon; Frank Chongwoo Park*

696	Combined RGBD-Inertial based State Estimation for MAV in GPS-denied Indoor Environments	Dachuan Li*; Qing Li; Nong Cheng; Qinfan Wu; Jingyan Song; Liangwen Tang
698	Modeling of Parrot Ardrone and passivity-based reset control	Pablo Falcon*; Antonio Barreiro Blas
700	Optimized State Feedback Regulation of 3DOF Helicopter System via Extremum Seeking	Rini Akmeliaawati*
701	Experimental External Force Estimation Using a Non-Linear Observer for 6 axes Flexible-Joint Industrial Manipulators	Jinna QIN*; François Leonard; Gabriel ABBA
702	Influence of Frictions on Gait optimization of a Biped Robot with an Anthropomorphic Knee	Mathieu HOBON*; Nafissa LAKBAKBI-ELYAAQOUBI; Gabriel ABBA
703	Predictive control of large steam turbines	Majid S. Khoshro*; Mojtaba Kordestani; Alireza Mirzaee
704	Optimal control of crystallization of alpha-lactose monohydrate	Dominikus Noll*; AMIRA RACHAH
705	Investigating the Security Controls of a Water System: An Overview	Yu-Lun Huang*; Ya-Hsuan WANG
706	Mathematical Model of Group Robots	Teturo Itami*
707	A Simple Approach to Nonlinear State Feedback Design	Jacob Hammer*
709	State Estimation for Genetic Regulatory Networks with Time-varying Delay Using Stochastic Sampled-data	Tae Hee Lee; MyeongJin Park; Ju Hyun Park*; Sang Moon Lee; OhMin Kwon
710	Leader-following Consensus Control for Markovian Switching Multi-agent Systems with Interval Time-varying Delays	MyeongJin Park; OhMin Kwon*; Ju Hyun Park; Sang Moon Lee; Eun Jong Cha; Tae Hee Lee
711	Data-driven Water Supply System Modelling	Yuan Zhang; Jing Wu; Ning Li; Shaoyuan Li*
714	Flatness control strategy for the air subsystem of a hydrogen fuel cell system	Ramon Da Fonseca*; Eric Bideaux; Mathias Gerard; Bruno Jeanneret; Ali Sari; Matthieu Desbois-Renaudin; Didier Buzon
716	On Stabilization of Continuous-time and Discrete-time Symmetric Bilinear Systems by Constant Controls	Lin Tie*
719	Prediction of Building Lighting Energy Consumption Based on Support Vector Regression	Dandan Liu*; Qijun Chen
720	On On-line Sampled-data Optimal Learning for Dynamic Systems with Uncertainties	Shou-Han Zhou*; Ying Tan; Denny Oetomo; Christopher Freeman; Iven Mareels
722	Developing A New Image Scanning Method Using Atomic Force Microscopy	Habibullah Habibullah*, Hemanshu Pota; Ian Petersen
725	Mining At Most Top-K% Mixed-drove Spatio-temporal Co-occurrence Patterns	wang zhanquan*
726	Analysis on Marketing Capabilities of IT Listed Company in China: A Empirical Study Based on Stochastic Frontier Method	chen gelin*; hongsheng xia
728	Linearized Mathematical Model of Intelligent Pneumatic Actuator System: Position, Force and Viscosity Controls	Ahmad Athif Mohd Faudzi*; Teh Chuan Enn; Khairuddin Osman
730	A novel ASM2 and SVM compensation method for the effluent quality prediction model of A2O process	Xiaoting LI*; Feng Pan; Xiaofeng Lian; Miao YU
732	Sampling Rate Tracking Control of Networked Control Systems Based on Cognitive Knowledge of Packet Disordering	Jinna Li*; Qingling Zhang

734	pH Control in Biological Process Using MMPC based on Neuro-Fuzzy Model by LOLIMOT Algorithm	ali saadat*; hamed rezaei
743	Indirect Adaptive Formation Control with Nonlinear Dynamics and Parametric Uncertainty	Samet Guler; Nasrettin Koksal; Baris Fidan*; Veysel Gazi
745	Using General Sound Descriptors For Early Autism Detection	Seyyed Hamid Ebrahimi Motlagh*; Hadi Moradi; Hamidreza Pouretemad
746	Low-complexity MISO models of T1DM glucose metabolism	Marzia Cescon*; Rolf Johansson
752	Modeling and Identification of the Yaw Dynamics of an Autonomous Tractor	Erkan Kayacan*; Erdal Kayacan; Herman Ramon; Wouter Saeys
753	Optimization via Characteristic Functions of Cones	Jimmie Lawson*
757	Divergence-based Odor Source Declaration	Gonçalo Cabrita*; Lino Marques
758	Control of Resonant Modes of a Smart Structure Using OMPC	Md. Sohel Rana*; Habibullah Habibullah
759	Humanoid Robot Navigation and Obstacle Avoidance in Unknown Environments	Griswald Brooks; Prashanth Krishnamurthy; Farshad Khorrami*
760	Sliding Mode Type-2 Fuzzy Control of MIMO Robotic Manipulators Using Ellipsoidal Type-2 Membership Functions	Mojtaba Ahmadieh*; Erdal Kayacan; Okyay Kaynak
762	A spline-based technique for optimal set point regulation through pseudo-inversion of nonminimum phase linear systems	valentina orsini; Raffaele Romagnoli; Leopoldo Jetto*
764	An effective computational method for human splice sites identification	Jiuqiang Han; Ying Cui*; Jun Liu; Xinman Zhang
765	A Linearization reference node Selection Strategy for Accurate Multilateration Localization in Wireless Sensor Networks	Quanrui Wei*; Jiuqiang Han; Jun Liu
766	Improved Results on Frequency Weighted Optimal Hankel Norm Model Reduction	Deepak Kumar*; S. K. Nagar
767	An effective SNR gene prediction algorithm based on merge of nucleotide segments (MNS)	Jiuqiang Han; Yucheng Ma*; Jun Liu; Rong Bao
770	Simple Virtual Slip force Sensor for Walking Biped Robots	Iyad Hashlamon; Kemalettin Erbatur*
772	Design and Evaluation of Motion Path for Specific Muscle Strengthening Using Neural Network	Kenta Itokazu*; Miyoshi Takanori; Kazuhiko Terashima
775	A New Technique in Multi-Model Adaptive Control: Sequential Parameter Discrimination and Hybrid Parameter Vector	Ahmet Cezayirli*
776	Consensus of fractional-order linear systems	Chao Song; Jinde Cao*
778	Cluster Consensus of Boolean Multi-Agent Systems	Fangfei Li; Yao Chen; Jinhua Lu*; David J. Hill
779	Robust State Estimation via the Descriptor Kalman Filtering Method	Chien-Shu Hsieh*
780	Classical and Subsequence Dynamic Time Warping for Recognition of Rigid Body Motion Trajectories	Ozkan Cigdem*; Tinne De Laet; Joris De Schutter
782	Manual Control of Inverted Pendulum with Different Input from Joystick	Jianning Hua*; Yujie Cui; Pu Shi; Yang Fangping; Xuezhu Wang
787	State Estimation Subject to Random Network Delays without Time Stamping	Yuanhua YANG*; Min Yue Fu; Huanshui Zhang
789	On A Type of Second-order Generalized Sylvester Equations	Guang-Ren Duan
790	Solution to Second-order Nonhomogeneous Generalized Sylvester Equations	Guang-Ren Duan