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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	Guanghai Wen; Wenwu Yu*; Jinde Cao; Guoqiang Hu; Guanrong Chen
432	Robust Adaptive Attitude Synchronization of Rigid Body Networks with Unknown Inertias	Iman Fadarar*; 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 Netic; 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 π C Adaptive Control for Electro Hydraulic Servo System	zohreh alzahra Sanai Dashti*; milad gholami; Mahdi` Aliyari Shoorehdeli; Mohammad Teshnehlab
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 Koksali; 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 Irizuki; 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; Xinpeng 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*; xiaoqing 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*
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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; Amer 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 componets	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
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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	Jaroslav 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*; Jinhu Lu; Xinghuo Yu; Guanrong Chen
537	Research on the Detection and Control Algorithm of Magnetic Navigation Based Wheeled Mobile Robot	Guan Sun*; Dan Feng; youtong zhang; Dongdong Weng
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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

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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-Fauzi 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*
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591	Intelligent Systems Based Solutions for the Kinematics Problem of the Industrial Robot Arms	Emre Sariyildiz; 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 Griño
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 Vyhldal*; 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*
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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
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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
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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
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660	Defect Detection and Width Estimation in Natural Gas Pipelines using MFL Signals	Mojtaba Rostami Kandroodi*; Babak Nadjar Araabi; Majid Nili Ahmadabadi; Farshad Shirani
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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
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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*
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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 jåa 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*

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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*
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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
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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*
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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
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776	Consensus of fractional-order linear systems	Chao Song; Jinde Cao*
778	Cluster Consensus of Boolean Multi-Agent Systems	Fangfei Li; Yao Chen; Jinhu Lu*; David J. Hill
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780	Classical and Subsequence Dynamic Time Warping for Recognition of Rigid Body Motion Trajectories	Ozkan Cigdem*; Tinne De Laet; Joris De Schutter
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