

2021 55th Annual Conference on Information Sciences and Systems (CISS 2021)

**Baltimore, Maryland, USA
24-26 March 2021**



**IEEE Catalog Number: CFP2160A-POD
ISBN: 978-1-6654-4844-4**

**Copyright © 2021 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:	CFP2160A-POD
ISBN (Print-On-Demand):	978-1-6654-4844-4
ISBN (Online):	978-1-6654-1268-1

Additional Copies of This Publication Are Available From:

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

CURRAN ASSOCIATES INC.
proceedings
.com

TABLE OF CONTENTS

A HYBRID APPROACH TO JOINT ESTIMATION OF MIMO CHANNEL AND ANTENNA IMPEDANCE MATRICES.....	1
<i>Shaohan Wu</i>	
MULTI-LABELLED OCULAR DISEASE DIAGNOSIS ENFORCING TRANSFER LEARNING	7
<i>Vinay Nair, Savani Suranglikar, Sourabh Deshmukh, Yashraj Gavhane</i>	
CHARACTERIZING NON-STATIONARY MILLIMETER-WAVE COMMUNICATION USING FUZZY ENTROPY	13
<i>Mohammadreza Robaei, Robert Akl</i>	
DEEP LEARNING-BASED ANOMALY DETECTION IN LAN FROM RAW NETWORK TRAFFIC MEASUREMENT	19
<i>Yuwei Sun, Hideya Ochiai, Hiroshi Esaki</i>	
TIMELY GROUP UPDATING	24
<i>Melih Bastopcu, Sennur Ulukus</i>	
USING RÉNYI-DIVERGENCE AND ARIMOTO-RÉNYI INFORMATION TO QUANTIFY MEMBERSHIP INFORMATION LEAKAGE	30
<i>Farhad Farokhi</i>	
APPROACHING PROSUMER SOCIAL OPTIMUM VIA ENERGY SHARING WITH PROOF OF CONVERGENCE	36
<i>Yue Chen, Changhong Zhao, Steven H. Low, Shengwei Mei</i>	
ON STABILITY OF AUTOMATIC GENERATION CONTROL	37
<i>John W. Simpson-Porco, Nima Monshizadeh</i>	
PERFORMANCE OF A BLIND ADAPTIVE DIGITAL BEAMFORMER ON A MULTI-USER RICIAN CHANNEL	38
<i>Peter Taiwo, Arlene Cole-Rhodes</i>	
GLOBAL CITATION RECOMMENDATION EMPLOYING MULTI-VIEW HETEROGENEOUS NETWORK EMBEDDING	44
<i>Zafar Ali, Guilin Qi, Khan Muhammad, Asim Khalil, Inam Ullah, Amin Khan</i>	
MIXED POISSON TRAFFIC RATE NETWORK TOMOGRAPHY	50
<i>Yariv Ephraim, Joshua Coblentz, Brian L. Mark, Hanoach Lev-Ari</i>	
A PRACTICAL LOW DELAY DIGITAL SCHEME FOR WYNER-ZIV CODING OVER GAUSSIAN BROADCAST CHANNEL.....	56
<i>Zhuobin Lin, Xuechen Chen, Xuming Lu, Hongzhou Tan</i>	
OPTIMIZING SENSOR LOCATIONS TO IMPROVE THE WORST CASE DETECTION PERFORMANCE OF SENSOR DETECTION SYSTEMS	62
<i>Ryan Vegrzyn, Benedito J.B. Fonseca</i>	
LARGE DEVIATIONS AND RARE EVENTS IN THE STUDY OF PROCESSES DESCRIBING THE SPREAD OF TRAFFIC CONGESTIONS IN URBAN NETWORK SYSTEMS	68
<i>Getachew K. Befekadu</i>	

IMPROVEMENTS TO SANOV AND PAC SUBLEVEL-SET BOUNDS FOR DISCRETE RANDOM VARIABLES	74
<i>Michael A. Tope, Joel M. Morris</i>	
CACHE FRESHNESS IN INFORMATION UPDATING SYSTEMS	80
<i>Melih Bastopcu, Sennur Ulukus</i>	
SPECTROMETRY FOR LIGHT BULB CLASSIFICATION	86
<i>Lucas Zanco Ladeira, Pedro Eduardo Baird, Filipe Edson da Silveira P. Palma</i>	
RAAF: RESOURCE-AWARE AUTO FEATURING	92
<i>Lucas Zanco Ladeira, Luiz Cesar Borro, Ricardo Paranhos Velloso Violato, Graziella Cardoso Bonadia</i>	
BOUNDS ON THE ERROR PROBABILITY OF NONBINARY LINEAR CODES OVER THE Q-ARY SYMMETRIC CHANNEL	98
<i>Emna Ben Yacoub, Gianluigi Liva, Enrico Paolini</i>	
LAUNCH VEHICLE CONTROL DESIGN USING SLIDING MODE CONTROL TOOLBOX.....	104
<i>Sai Susheel Praneeth Kode, Yuri B. Shtessel</i>	
DISTRIBUTED MIRROR DESCENT WITH INTEGRAL FEEDBACK: CONVERGENCE ANALYSIS FROM A DYNAMICAL SYSTEM PERSPECTIVE	110
<i>Youbang Sun, Shahin Shahrampour</i>	
CYBEX INFORMATION SHARING GAME WITH OBJECTIVE AND SUBJECTIVE PLAYERS	111
<i>Ahmed A. Alabdel Abass, Narayan B. Mandayam, Zoran Gajic</i>	
UNIVERSAL ZERO DYNAMICS: THE SISO CASE	116
<i>W. Steven Gray, Kurusch Ebrahimi-Fard, Alexander Schmeding</i>	
DIRECTIONAL HUB SLOTTED ALOHA MEDIUM ACCESS CONTROL PROTOCOL FOR WIRELESS SENSOR NETWORKS WITH DIRECTIONAL ANTENNAS	122
<i>Arnold Chau, John Dawson, Paul Mitchell</i>	
FACILITATED DEEP LEARNING MODELS FOR IMAGE CAPTIONING.....	128
<i>Imtinan Azhar, Imad Afyouni, Ashraf Elnagar</i>	
TYPE SIZE CODE FOR COMPRESSING ERDOS-RÉNYI GRAPHS	134
<i>Nematollah Iri</i>	
LEARNING LYAPUNOV FUNCTIONS FOR HYBRID SYSTEMS.....	140
<i>Shaoru Chen, Mahyar Fazlyab, Manfred Morari, George J. Pappas, Victor M. Preciado</i>	
ATTACK DETECTION AND COUNTERMEASURES FOR AUTONOMOUS NAVIGATION.....	141
<i>Md Tanvir Arafin, Kevin Kornegay</i>	
MACHINE LEARNING MODELS FOR HUMAN FALL DETECTION USING MILLIMETER WAVE SENSOR.....	147
<i>Mubarak A. Alanazi, Abdullah K. Alhazmi, Chris Yakopcic, Vamsy P. Chodavarapu</i>	
STRATEGIC HARDWARE TROJAN TESTING WITH HIERARCHICAL TROJAN TYPES	152
<i>Swastik Brahma, Satyaki Nan, Laurent Njilla</i>	
SAFE LINEAR BANDITS	158
<i>Ahmadreza Moradipari, Sanae Amani, Mahnoosh Aliradeh, Christos Thrampoulidis</i>	

QUANTITATIVE ANALYSIS SYSTEM FOR BACTERIAL CELLS IN SEM IMAGE USING DEEP LEARNING.....	159
<i>Yasuki Kakishita, Anirban Ray, Hideharu Hattori, Akiko Hisada, Yusuke Ominami, Jean-Pierre Baudoin, Jacques Yaacoub Bou Khalil, Didier Raoult</i>	
CONTEXT SPECIFICITY MATTERS: PROFILE ATTRIBUTES PREDICTION FOR SOCIAL NETWORK USERS.....	165
<i>Andrey Gomzin, Mikhail Drobyshvskiy, Denis Turdakov</i>	
COMPETITIVE CONTROL VIA ONLINE OPTIMIZATION WITH MEMORY, DELAYED FEEDBACK, AND INEXACT PREDICTIONS	171
<i>Guanya Shi</i>	
A DEEP TRANSFER LEARNING-BASED EDGE COMPUTING METHOD FOR HOME HEALTH MONITORING	172
<i>Abu Sufian, Changsheng You, Mianxiong Dong</i>	
TRIAGING AUTONOMOUS DRONE FAULTS BY SIMULTANEOUSLY ASSURING AUTONOMY AND SECURITY.....	178
<i>Lanier Watkins, Denzel Hamilton, Kevin Kornegay, Aviel Rubin</i>	
COUPLING EFFECT OF SINGLE-THRESHOLD SENSOR RULES IN TWO-SENSOR TANDEM NETWORK.....	184
<i>Xingjian Sun, Shailee Yagnik, Lei Cao, Ramanarayanan Viswanathan</i>	
ONLINE OPTIMIZATION WITH PREDICTIONS AND NON-CONVEX LOSSES	190
<i>Yiheng Lin</i>	
SECURE CODING FOR THE GAUSSIAN WIRETAP CHANNEL WITH SPARSE REGRESSION CODES	191
<i>Manos Athanasakos</i>	
IMAGE DEBLURRING USING MULTI-SCALE DILATED CONVOLUTIONS IN A LSTM-BASED NEURAL NETWORK.....	196
<i>Greig Richmond, Arlene Cole-Rhodes</i>	
AN ENSEMBLE OF DEEP SEMANTIC REPRESENTATION FOR MEDICAL X-RAY IMAGE CLASSIFICATION.....	202
<i>Mohammad Reza Zare, Mehdi Mehtarizadeh</i>	
POOLED TESTING TO ISOLATE INFECTED INDIVIDUALS.....	208
<i>Matthew Aldridge</i>	
OPTIMIZING DEMAND-RESPONSIVE PARATRANSIT OPERATIONS: A MIXED INTEGER PROGRAMMING APPROACH	213
<i>Xiaojian Zhang, Yu Yang, Abigail L. Cochran, Noreen McDonald, Xilei Zhao</i>	
MODEL-FREE SAFE POLICY LEARNING VIA HARD ACTION BARRIER FUNCTIONS.....	219
<i>Agustin Castellano, Juan Bazerque, Enrique Mallada</i>	
INVESTIGATING THE STATISTICAL ASSUMPTIONS OF NAÏVE BAYES CLASSIFIERS	220
<i>Anthony Kelly, Marc Anthony Johnson</i>	
ENHANCED DETERMINATION OF GENE GROUPS BASED ON OPTIMAL KERNEL PCA WITH HIERARCHICAL CLUSTERING ALGORITHM	226
<i>Nawin Najat Mohammed, Chewan Jalal Mohammed</i>	

HUMAN INDOOR POSITIONING VIA PASSIVE SPECTRUM MONITORING.....	231
<i>Huaizheng Mu, Jenny Liu, Robert Ewing, Jia Li</i>	
PERSONALIZED ONLINE OPTIMIZATION OF NETWORKED SYSTEMS VIA GAUSSIAN PROCESSES	237
<i>Ana M. Ospina, Emiliano Dall'Anese</i>	
NETWORK DESIGN FOR SOCIAL WELFARE.....	238
<i>Abhishek Shende, Deepanshu Vasal, Sriram Vishwanath</i>	
IMPROVING THE RELIABILITY OF POOLED TESTING WITH COMBINATORIAL DECODING AND COMPRESSED SENSING.....	244
<i>Hendrik Bernd Petersen, Shankar Agarwal, Peter Jung, Bubacarr Bah</i>	
AXON ARBOR TRADE-OFF BETWEEN WIRING COST, DELAY, AND SYNCHRONIZATION IN NEURONAL NETWORKS	249
<i>Quanying Liu, Christian Kurniawan, Chenxi Xu, Siddhant Jagtap, Xiyu Deng, Kexin Lou, Yong Sheng Soh, Yorie Nakahira</i>	
AN IMPROVED INTEREST POINT DETECTION APPROACH BASED ON COMBINED HARRIS-SIFT PRINCIPLES.....	255
<i>Muhammad Ibraheem Siddiqui, Khurram Jadoon</i>	
PREDICTING ACUTE KIDNEY INJURY VIA INTERPRETABLE ENSEMBLE LEARNING AND ATTENTION WEIGHTED CONVOLUTIONAL-RECURRENT NEURAL NETWORKS	260
<i>Yu-Chung Peng, Niharika Shimona D'Souza, Brian Bush, Charles Brown, Archana Venkataraman</i>	
A PAC-BOUND ON THE CHANNEL CAPACITY OF AN OBSERVED DISCRETE MEMORYLESS CHANNEL.....	266
<i>Michael A. Tope, Joel M. Morris</i>	
DIFFLOOP: TUNING PID CONTROLLERS BY DIFFERENTIATING THROUGH THE FEEDBACK LOOP.....	272
<i>Athindran Ramesh Kumar, Peter J. Ramadge</i>	
ENERGY EFFICIENCY ANALYSIS OF RLS-MUSIC BASED SMART ANTENNA SYSTEM FOR 5G NETWORK	278
<i>Hailu Belay, Kevin Kornegay, Ebrima Ceesay</i>	
A SPIKE-BASED CELLULAR-NEURAL NETWORK ARCHITECTURE FOR SPATIOTEMPORAL FILTERING	283
<i>Jonah P. Sengupta, Martin Villemur, Andreas G. Andreou</i>	
EFFICIENT, EVENT-DRIVEN FEATURE EXTRACTION AND UNSUPERVISED OBJECT TRACKING FOR EMBEDDED APPLICATIONS	289
<i>Jonah P. Sengupta, Martin Villemur, Andreas G. Andreou</i>	
DECENTRALIZED MULTI-AGENT REINFORCEMENT LEARNING WITH SHARED ACTIONS.....	295
<i>Rajesh K Mishra, Deepanshu Vasal, Sriram Vishwanath</i>	
NO-REGRET ALGORITHMS FOR TIME-VARYING BAYESIAN OPTIMIZATION	301
<i>Xingyu Zhou, Ness Shroff</i>	
AN EXPERIMENTAL STUDY OF BALANCE IN MATRIX FACTORIZATION	307
<i>Jennifer Hsia, Peter J. Ramadge</i>	

CROSS-SITE EPILEPTIC SEIZURE DETECTION USING CONVOLUTIONAL NEURAL NETWORKS.....	313
<i>Danielle Currey, David Hsu, Raheel Ahmed, Archana Venkataraman, Jeff Craley</i>	
STATISTICAL BOUNDED AGE-OF-INFORMATION FOR MURLLC OVER 6G MULTIMEDIA WIRELESS NETWORKS.....	319
<i>Xi Zhang, Qixuan Zhu, H. Vincent Poor</i>	
AGE-OF-INFORMATION FOR MURLLC OVER 6G MULTIMEDIA WIRELESS NETWORKS	325
<i>Xi Zhang, Qixuan Zhu, H. Vincent Poor</i>	
QUICKEST CHANGE DETECTION IN THE PRESENCE OF TRANSIENT ADVERSARIAL ATTACKS	331
<i>Thirupathaiah Vasantam, Don Towsley, Venugopal V. Veeravalli</i>	
STATISTICAL DELAY AND ERROR-RATE BOUNDED QOS PROVISIONING FOR SWIPT OVER CF M-MIMO BASED IOT NETWORKS USING FBC.....	337
<i>Xi Zhang, Jingqing Wang, H. Vincent Poor</i>	
ON LOGARITHMIC REGRET FOR BANDITS WITH KNAPSACKS	343
<i>Wenbo Ren, Jia Liu, Ness B. Shroff</i>	
TO COLLABORATE OR NOT IN DISTRIBUTED STATISTICAL ESTIMATION WITH RESOURCE CONSTRAINTS?	349
<i>Yu-Zhen Janice Chen, Daniel S. Menasché, Don Towsley</i>	
A SUPERQUANTILE APPROACH TO FEDERATED LEARNING WITH HETEROGENEOUS DEVICES	355
<i>Yassine Laguel, Krishna Pillutla, Jérôme Malick, Zaid Harchaoui</i>	
A FRESH LOOK AT SOME CLASSICAL SYSTEM IDENTIFICATION METHODS	361
<i>Necmiye Ozay</i>	
RISK-SENSITIVE OPTIMIZATION AND PRICING FOR THE MODERN POWER GRID	362
<i>Subhonmesh Bose, Mariola Ndrio, Avinash N. Madavan, Lang Tong, Ye Guo</i>	
ON THE SMOOTHING OF DEEP NETWORKS.....	363
<i>Vincent Roulet, Zaid Harchaoui</i>	
OPTIMUM DETECTION OF DEFECTIVE ELEMENTS IN NON-ADAPTIVE GROUP TESTING	369
<i>Gianluigi Liva, Enrico Paolini, Marco Chiani</i>	
CLICKBAIT IN SOCIAL MEDIA: DETECTION AND ANALYSIS OF THE BAIT.....	375
<i>Mini Jain, Peya Mowar, Ruchika Goel, Dinesh K. Vishwakarma</i>	
SUPER-CONVERGENCE AND DIFFERENTIAL PRIVACY: TRAINING FASTER WITH BETTER PRIVACY GUARANTEES	381
<i>Osvold Frisk, Friedrich Dormann, Christian Marius Lillelund, Christian Fischer Pedersen</i>	
AOI-DRIVEN STATISTICAL DELAY AND ERROR-RATE BOUNDED QOS PROVISIONING FOR URLLC IN THE FINITE BLOCKLENGTH REGIME	387
<i>Xi Zhang, Jingqing Wang, H. Vincent Poor</i>	
KRONECKER COMPRESSIVE SENSING FOR OFDM CHANNEL ESTIMATION IN MILLIMETER WAVE CHANNELS	393
<i>John Franklin, A. Brinton Cooper</i>	

MECHANISM DESIGN FOR LARGE SCALE NETWORK UTILITY MAXIMIZATION	399
<i>Meng Zhang, Deepanshu Vasal</i>	
COMBINATORIAL MULTI-ARMED BANDITS FOR RESOURCE ALLOCATION	405
<i>Jinhang Zuo, Carlee Joe-Wong</i>	
LOCALIZING POWER-GRID FORCED OSCILLATIONS BASED ON HARMONIC ANALYSIS OF SYNCHROPHASOR DATA.....	409
<i>Sandip Roy, Wenyun Ju, Neeraj Nayak, Bernard Lesieutre</i>	
BAYESIAN OPTIMIZATION AND GRADIENT BOOSTING TO DETECT PHISHING WEBSITES	414
<i>Rakesh Pavan, Madhumitha Nara, Suhas Gopinath, Nagamma Patil</i>	
FAIR AND DISTRIBUTED DYNAMIC OPTIMAL TRANSPORT FOR RESOURCE ALLOCATION OVER NETWORKS	419
<i>Jason Hughes, Juntao Chen</i>	
DISTRIBUTED CONSTRAINT OPTIMIZATION PROBLEM FOR COORDINATED RESPONSE OF UNMANNED AERIAL VEHICLES AND GROUND VEHICLES	425
<i>Justice Darko, Larkin Folsom, Niharika Deshpande, Hyoshin Park</i>	
ROBUST AUTOMATIC MODULATION CLASSIFICATION IN THE PRESENCE OF ADVERSARIAL ATTACKS	431
<i>Rajeev Sahay, David J. Love, Christopher G. Brinton</i>	
MODERN ANALYSIS OF HUTCHINSON'S TRACE ESTIMATOR.....	437
<i>Maciej Skorski</i>	
ENERGY-BALANCING AC AND DC GRID-FORMING CONTROL FOR POWER CONVERTERS.....	442
<i>Dominic Groß</i>	
NON-PARAMETRIC QUICKEST DETECTION OF A CHANGE IN THE MEAN OF AN OBSERVATION SEQUENCE	443
<i>Yuchen Liang, Venugopal V. Veeravalli</i>	
PARALLEL COMPUTATION OF EVENT-BASED VISUAL FEATURES USING RELATIONAL GRAPHS.....	449
<i>Daniel R. Mendat, Jonah P. Sengupta, Drake K. Foreman, Andreas G. Andreou</i>	
LEVERAGING DIFFERENT TYPES OF PREDICTORS FOR ONLINE OPTIMIZATION (INVITED PAPER).....	455
<i>Jessica Maghakian, Russell Lee, Mohammad Hajiesmaili, Jian Li, Zhenhua Liu, Ramesh Sitaraman</i>	
IMPLEMENTATION OF ADAPTIVE OFDM FOR AERONAUTICAL CHANNEL	456
<i>Tasmeer Alam, Richard A. Dean, Mulugeta Dugda, Farzad Moazzami</i>	
HUMAN ACTIVITY RECOGNITION THROUGH ENSEMBLE LEARNING OF MULTIPLE CONVOLUTIONAL NEURAL NETWORKS.....	461
<i>Narjis Zehra, Syed Hamza Azeem, Muhammad Farhan</i>	
QUICKEST DETECTION OVER SENSOR NETWORKS WITH UNKNOWN POST-CHANGE DISTRIBUTION	466
<i>Deniz Sargun, C. Emre Koksal</i>	

COMPOSITIONAL GENERATIVE NETWORKS AND ROBUSTNESS TO PERCEPTIBLE IMAGE CHANGES	472
<i>Adam Kortylewski, Ju He, Qing Liu, Christian Cosgrove, Chenglin Yang, Alan L. Yuille</i>	
CONTROL OF STACKED POWER ELECTRONICS SYSTEMS	480
<i>Brian Johnson</i>	
COMPARISON BETWEEN EXPECTED AND OBSERVED FISHER INFORMATION IN INTERVAL ESTIMATION.....	481
<i>Sihang Jiang, James C. Spall</i>	
AUTONOMY'S HIERARCHY OF NEEDS: SMART CITY ECOSYSTEMS FOR AUTONOMOUS SPACE HABITATS.....	487
<i>Gregory Falco</i>	
PARALLEL DECISION FUSION WITH LOCAL CONSTRAINTS.....	493
<i>Weiqiang Dong, Moshe Kam</i>	
IMPROVED MONTE CARLO ESTIMATION OF THE FISHER INFORMATION MATRIX WITH INDEPENDENT PERTURBATIONS	499
<i>Xuan Wu, James C. Spall</i>	
MODEL-FREE OPTIMAL CONTROL USING SPSA WITH COMPLEX VARIABLES	504
<i>Long Wang, Jingyi Zhu, James C. Spall</i>	
CONNECTION OF DIAGONAL HESSIAN ESTIMATES TO NATURAL GRADIENTS IN STOCHASTIC OPTIMIZATION.....	509
<i>Shiqing Sun, James C. Spall</i>	
COMPARISON OF RDSA AND SPSA ALGORITHMS WITH DIFFERENT PERTURBATIONS	515
<i>Yiwen Chen</i>	
MACHINE LEARNING FOR OPTIMAL INVERTER OPERATION IN DISTRIBUTION GRIDS.....	521
<i>Manish K. Singh, Sarthak Gupta, Vassilis Kekatos</i>	
RATE OF PREFIX-FREE CODES IN LQG CONTROL SYSTEMS WITH SIDE INFORMATION.....	522
<i>Travis C. Cuvelier, Takashi Tanaka</i>	
VEHICLE CRASH PREDICTION USING VISION	528
<i>Muhammad Haris, Minhaj Ahmed Moin, Farooq Abdul Rehman, Muhammad Farhan</i>	
CONTROLLING COLLECTIVE MOTIONS OF SELF-PROPELLED PARTICLES BY MEAN FIELD COUPLINGS DEFINED BY TOPOLOGY	533
<i>Thomas B. Woolf, Justin Tervala, Ian Carter</i>	
CONTIGUOUS MULTI-USER SCHEDULING AND POWER CONTROL FOR 5G-NR UPLINK	538
<i>Avik Sengupta, Bishwarup Mondal, Victor Sergeev, Alexei Davydov, Apostolos Papathanassiou</i>	
ANTICIPATORY THINKING: A TESTING AND REPRESENTATION CHALLENGE FOR SELF-DRIVING CARS	544
<i>Leilani H. Gilpin</i>	
ON DISTRIBUTED OPTIMIZATION IN THE PRESENCE OF MALICIOUS AGENTS	546
<i>Iyanuoluwa Emiola, Laurent Njilla, Chinwendu Enyioha</i>	

OPTIMAL VWAP STRATEGIES UNDER REGIME SWITCHING.....	552
<i>Moustapha Pemy</i>	
BLACKWELL ONLINE LEARNING FOR MARKOV DECISION PROCESSES.....	558
<i>Tao Li, Guanze Peng, Quanyan Zhu</i>	
MALWARE SUBSPECIES DETECTION METHOD BY SUFFIX ARRAYS AND MACHINE LEARNING.....	564
<i>Kouhei Kita, Ryuya Uda</i>	
RECOGNITION OF DIGITS ON LICENSE PLATE BY RAISR WITH CHANGING CONTRAST RATIO.....	570
<i>Tomoya Suzuki, Ryuya Uda</i>	
EXPLORING BLOCKCHAIN FOR THE COORDINATION OF DISTRIBUTED ENERGY RESOURCES.....	576
<i>Qing Yang, Hao Wang</i>	
AN UNSUPERVISED LEARNING APPROACH FOR IN-VEHICLE NETWORK INTRUSION DETECTION.....	582
<i>Nandi Leslie</i>	
SYMMETRIC SIMPLICIAL NEURAL NETWORKS.....	586
<i>N. Rodriguez, P. Julian, M. Villemur</i>	
SPATIOTEMPORAL PROCESSING FOR NEUROMORPHIC CAMERAS.....	592
<i>Stephanie Brandt, James Enciso, Tom Petty, Dean Scribner, Nishant Zachariah, Isidoros Doxas</i>	
FOVEAL-PIT INSPIRED FILTERING OF DVS SPIKE RESPONSE.....	596
<i>Shriya T.P. Gupta, Pablo Linares-Serrano, Basabdatta Sen Bhattacharya, Teresa Serrano- Gotarredona</i>	
PARAMETER ESTIMATION USING RANDOM 1 BIT STREAMS (PEERS).....	602
<i>Nishant Zachariah, Isidoros Doxas, Jamal Molin</i>	

Author Index