2019 China-Qatar International Workshop on Artificial Intelligence and Applications to Intelligent Manufacturing (AIAIM 2019)

Doha, Qatar 1-4 January 2019



IEEE Catalog Number: ISBN:

fumber: CFP19P62-POD 978-1-5386-6446-9

Copyright © 2019 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:
 CFP19P62-POD

 ISBN (Print-On-Demand):
 978-1-5386-6446-9

 ISBN (Online):
 978-1-5386-6445-2

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



Table of Contents

A Neurodynamic Approach to Noisy Image Fusion Based on a Linear Constrained Least Square Method	1
Containment of Linear Multi-Agent Systems with Reduced-Order Protocols over Signed Graphs	ϵ
Adaptive Testing Tool for Students with Dyslexia	11
Multiple Periods Location and Capacity Optimization of Charging Stations for Electric Vehicle	17
Petrol Pump Queue Management System for Sultanate of Oman Using Artificial Intelligence Technique	22
Observer-based Adaptive Fault-tolerant Consensus Tracking of Multi-agent Systems	30
Distributed Leaderless Impulsive Consensus of Nonlinear Multi-Agent Systems with Input Saturation	36
Practical Absolute Stabilization of Lur'e Systems via Periodic Event-Triggered Feedback	42
A Mixed Integer Program for the Spanning Distribution Forest of a Power Network	48
The design of 3-DES encryption system using optimizing keys Li Wang and Guangling Jiang	56
Design of Binocular Stereo Vision System with Parallel Optical Axes and Image 3D Reconstruction	59
Comparison of Different Grasp Algorithms for The Heterogeneous Vector Bin Packing Problem Diordje Stakic, Ana Anokic, and Raka Jovanovic	63

Realization of Prescribed Performance Control for DC Converter System in DC Microgrid via Finite-time Sliding Mode Observer Xingchen Xu, Zhigang Zeng, and Qingshan Liu	71
Stabilization of Dynamical Networks via Constrained Impulse Inputs Caiping Chen and Chuandong Li	77
Global Exponential Stability of Impulsive Complex-Valued Neural Networks with Proportional Delays	82