

**2019 IEEE Symposium on
Product Compliance
Engineering – Asia
(ISPCE-CN 2019)**

**Kowloon, Hong Kong
23 – 26 October 2019**



**IEEE Catalog Number: CFP19BWD-POD
ISBN: 978-1-7281-6361-1**

**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: | CFP19BWD-POD |
| ISBN (Print-On-Demand): | 978-1-7281-6361-1 |
| ISBN (Online): | 978-1-7281-6360-4 |

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

| | |
|--|-----|
| Welcome Messages from IEEE 2019 ISPCE-CN Chairs..... | i |
| Committees | iii |
| Programme in Detail..... | vii |
| Papers..... | 1 |
| Multi player game model Analysis in Sharing System | 1 |
| Synchronization of Two-layered Dynamical Networks with On-off Inter-layer Coupling..... | 8 |
| Application of big data to cities in the United States..... | 13 |
| Movie box office prediction based on ensemble learning..... | 17 |
| Capped l_2, l_1 -Norm Regularization on Kernel Regression for Robust Semi-supervised Learning | 21 |
| Map Matching Integration Algorithm Based on Historical Trajectory Data | 25 |
| Generalization of the Multipath Interference Compensation Algorithm in Pulsed Time-of-Flight Imaging | 31 |
| Material Recognition Based on a Pulsed Time-of-Flight Camera | 36 |
| Hybrid Structure Based PSO for ESN Optimization | 44 |
| Acoustic beamforming through adaptive diagonal loading | 48 |
| Performance Study of Eight-Figure Coils in Wireless Power Transfer System | 52 |
| The Development of Smart Traffic Analysis System..... | 56 |
| Critical Study on the Relationship between Power Conversion Technique and Energy Efficiency on LED driver..... | 60 |
| An IEEE 1451-Standardized Heart Monitoring Scheme based on Collaborative NB-IoT Structure..... | 63 |
| Author Index | 68 |