

2019 IEEE Conference on Open Systems (ICOS 2019)

**Pulau Pinang, Malaysia
19-21 November 2019**



**IEEE Catalog Number: CFP1910M-POD
ISBN: 978-1-7281-3311-9**

**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:	CFP1910M-POD
ISBN (Print-On-Demand):	978-1-7281-3311-9
ISBN (Online):	978-1-7281-3310-2
ISSN:	2381-3474

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

Copyright Notice

Full Papers

No	Title	Pages
1	Individual Sustainability Barriers and Mitigation Strategies: Systematic Literature Review Protocol	1
2	Unified Theory of Acceptance and Use of Technology of E-Government Services in Malaysia: Validation of Survey Instrument	6
3	NETWORK TOPOLOGY COMPARISON FOR INTERNET COMMUNICATION AND IOT CONNECTIVITY	12
4	Assessing User Experience (UX) Interacting With Car Catalog Application Using Multi-touch Tabletop Display	17
5	Validation of Early Testing Method for E-Government Projects by Requirement Engineering	23
6	Towards a Plug and Play Architecture for a Materialflow Handling System	28
7	Review of Big Data Analytics (BDA) Architecture: Trends and Analysis	34
8	Individual, Social and Personnel Factors Influencing Modern Code Review Process	40
9	A New IoT Patient Monitoring System for Hemodialysis Treatment	46
10	nocturnOWL: Sleep-monitoring Virtual Pet Mobile Application	51

Author Index