

2018 15th Learning and Technology Conference (L&T 2018)

**Jeddah, Saudi Arabia
25-26 February 2018**



**IEEE Catalog Number: CFP18B33-POD
ISBN: 978-1-5386-4818-6**

**Copyright © 2018 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:	CFP18B33-POD
ISBN (Print-On-Demand):	978-1-5386-4818-6
ISBN (Online):	978-1-5386-4817-9

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

	Page
Table of Contents	iii
"Design of an IoT Smart Home System", Akram Khan, Abdullah Al-Zahrani, Safwan Al-Harbi, Soliman Al-Nashri, Iqbal A. Khan	1
"Internet of Medical Things: Architectural Model, Motivational Factors and Impediments", Mohammed Irfan , Naim Ahmad	6
"The Impact of Social Networking Sites on Employees' Performance", Amani Maturi	14
"Internet-of-Things in Telemedicine for Diabetes Management ", Salem Alelyani, Abdelrahman Ibrahim	20
"Developing Intercultural Competencies through Virtual Reality: Internet of Things Applications in Education and Learning" Louis Hickman, Mesut Akdere	24
"IoT based Mobile Healthcare System for Human Activity Recognition", Abdulhamit Subasi, Mariam Radhwan, Rabea Kurdi, Kholoud Khateeb	29
"An efficient censoring scheme for lifetime of connected solid-state lighting based on entropy measures", Omar A. Kittaneh, Mohamed Shehata, M. A. Majid	35
"Traffic Accident Detection Using Random Forest Classifier", Nejdett Dogru, Abdulhamit Subasi	40
"A Wireless Controlled Digital Car Lock For Smart Transportation", L. Jamjoom, A. Alshmarani, S. M. Qaisar, M. Akbar	46
"A Smart Home Appliances Control System Based On Digital Electronics and GSM Network", R. A. Johar, E. Fakieh, R. Allagani, S. M. Qaisar	52
"Estimating Data Traffic through Software-Defined Multiple Access for IoT Applications over 5G Networks", Ahmed Alshafut, Vijey Thayanathan	59
"Program-Flow Attestation of IoT Systems Software" , Nafisa Ahmed, Manar Abu Talib, Qassim Nasir	67
"N-Shopping Towards an autonomous Online Shopping system for NEOM megacity", Samiha BRAHIMI, Asiya ABDUS SALAM, Mohammed ALQAHTANI	74
"An ARM Based Wireless Sensors Network for Monitoring of Plants Health" , A. Sab,S.M. Qaisar	80
"Development of IoT Mining Machine for Twitter Sentiment Analysis: Mining in the Cloud and Results on the Mirror ", Salha M. Alzahrani	86
"Security and privacy for IoT and Fog Computing Paradigm", Abdul Rauf, Riaz Ahmed Shaikh, Asadullah Shah	96
"A novel and Secure Smart Parking Management System (SPMS) based on integration of WSN, RFID, and IoT", Omar Abdulkader, Alwi M. Bamhdi, Vijey Thayanathan, Kamal Jambi, Muasaad Alrasheedi	102

"Energy Efficient IoT Home Monitoring And Automation System" , Raneen Ayman Alzafarani, Ghadi Ahmad Alyahya	107
"Blockchain for Government Services – Use Cases, Security Benefits and Challenges" , Ahmed Alketbi, Dr. Qassim Nasir, Dr. Manar Abu Talib	112
"Factory Automation and Irrigation Control in an IoT Environment" , Dr Kamel Ammour	120
"VLSI design of energy efficient computational centric smart objects for IoT" , Charles Rajesh Kumar, Dr.Aziza Ibrahim	129
"Monitoring the Operation of Transmission Line in a Smart Grid System through IoT" , Fatima Alhebshi, Heba Alnabils, Jauhra Alzebaidi, Ahmed Bensenouci, Tayeb Brahimi, Mohamed-Amine Bensenouci	139
"IoT Based Smart Sprinkling System" , Rana Johar, Ahmed Bensenouci, Mohamed-Amine Bensenouci	147
"IoT Architecture a Gateway for Smart Cities in Arab World" , Dr.Samah El Khateeb	153
"The Smart Environment of Commercial Buildings" , Mervat El- Shafie, Lubaba Fakeih	161
"Dual pH Level Monitoring and Control using IoT Application" , Asma Fatani, Afnan Kanawi, Ahmed Bensenouci, Tayeb Brahimi, Hedaih Alshami, Mohamed-Amine Bensenouci	167
"IoT Based Assistive Walker Device for Frail &Visually Impaired People" Makarem Aljahdali, Ahmed Bensenouci, Raghad Abokhamees, Tayeb Brahimi , Mohamed-Amine Bensenouci	171