2022 Sixth International Conference on Smart Cities, Internet of Things and Applications (SCIoT 2022)

Mashhad, Iran 14 – 15 September 2022



IEEE Catalog Number: CFP22JVG-POD **ISBN:**

978-1-6654-8892-1

Copyright © 2022 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:	CFP22JVG-POD
ISBN (Print-On-Demand):	978-1-6654-8892-1
ISBN (Online):	978-1-6654-8891-4

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



6th International Conference on Smart Cities, Internet of Things and Applications (SCIoT2022)

Department of Engineering, Ferdowsi University of Mashhad (FUM), Mashhad, IRAN, 14-15 September 2022

SCIoT2022 Papers

No.	Paper Title	Authors	Page
1	The coordinated scheduling of autonomous vehicles considering traffic	Arman Koohizadeh Dehkordi, Sayed Yaser Derakhshndeh, Zahra Mobini, Mohammadali Mohammadi	1
2	Trustable Mobile Crowd Sourcing for Acquiring Information from a Flooded Smart Area	Sajedeh Abbasi, Hamed Vahdat-Nejad, Hamideh Hajiabadi	8
3	Load Balancing in Mobile Edge Computing: A Reinforcement Learning Approach	Niloofar Tahmasebi-Pouya, Mehdi-Agha Sarram, Seyed-Akbar Mostafavi	11
4	A Machine Learning-based Approach to Detect Polluting Vehicles in Smart Cities	Bahar Afshar, Mahmood Fathy, Maryam Asgari, Mohammad Shahverdy, Pooya Shahverdi	17
5	A Wireless Body Temperature and Oxygen Saturation Monitoring system based on Android Smartphones	Mohammad Saleh Hoseinzadeh, Ali Ekhlasi	22
6	NOMA grouping in 5G intelligent transportation system for high spectral efficiency	Seyedeh Armineh Sadeghi Sangdehi, Neda Moghim	27
7	Highly Scalable Smart Metering IoT Platform Based on Microservice Architecture	Mohammadreza Parvizi, Mohammadreza Noei, Mohammadmostafa Yalpanian	33
8	A QoS-Aware Traffic Management Policy for IoT-enabled Smart City Applications based on Edge Cloud Computing	Zeinab Nazemi Absardi, Reza Javidan	39
9	Cooperative Reinforcement Learning Mechanism in Clustered Energy Harvesting Wireless Sensor Networks	Razieh Mohammadi, Mehrnaz Farokhnejad Afshar, Zahra Shirmohammadi	46
10	Introducing Bee-Eater Hunting Strategy Algorithm for IoT-Based Green House Monitoring and Analysis	Seyed Muhammad Hossein Mousavi	51
11	Multiple Signals Direction Finding of IoT Devices Through Improved Correlative Interferometer Using Directional Elements	Zahra Memarian, Mahdi Majidi	57

No.	Paper Title	Authors	Page
12	The Cybersecurity Risks of Using Internet of Things (IoT) and Surveys of End-Users and Providers Within the Domiciliary Care Sector	Amjad Fayoumi, Somayeh Sobati-Moghadam, Abolfazl Rajaiyan, Charlie Oxley, Paula Florez Montero,	63
13	Analysis and Improving the management of rural farm network based on IoT and RFID	Sadegh Nikounejad, Mohammad Reza Moslehi, Sepideh Nikounejad	70
14	A Classification of RPL Specific Attacks and Countermeasures in the Internet of Things	Mohammad Koosha, Behnam Farzaneh, Shahin Farzaneh	76
15	Trust Based IOT Routing Attacks Detection Using Recurrent Neural Networks	Khatereh Ahmadi, Reza Javidan	83
16	Internet of Things and Healthcare 4.0 Based on a Real-time model Study in the Smart Retirement Village	Shabnam Jalili Marandi, Mehdi Golsorkhtabaramiri, Mehdi Hosseinzadeh, Somayyeh Jafarali Jassbi	91
17	Ensemble Learning-based Intrusion Detection System for Autonomous Vehicle	Jay Thaker, Nilesh Kumar Jadav, Sudeep Tanwar, Pronaya Bhattacharya, Hossein Shahinzadeh	96
18	Blockchain and AI-based Secure Onion Routing Framework for Data Dissemination in IoT Environment Underlying 6G Networks	Rajesh Gupta, Nilesh Kumar Jadav, Anuja Nair, Sudeep Tanwar, Hossein Shahinzadeh	101