## 2022 13th International **Conference on Information and Knowledge Technology** (IKT 2022)

Karaj, Iran 20-22 December 2022



**IEEE Catalog Number: CFP22IKT-POD ISBN**:

979-8-3503-2063-3

## 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:
 CFP22IKT-POD

 ISBN (Print-On-Demand):
 979-8-3503-2063-3

 ISBN (Online):
 979-8-3503-2062-6

## **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**

| Data Analysis to Reduce Electrical Power Plants   |
|---|
| Sahraei Amirali, Shanbehzadeh Jamshid   |
| A clonal selection mechanism for load balancing in the cloud computing system   |
| Mosayyebi Melika, Azmi Reza7  |
| Securing the Internet of Things via Blockchain-Aided Smart Contracts  |
| Zanjani S. Mohammadali, Shahinzadeh Hossein, Moradi Jalal, Rezaei Zohreh, Kaviani- Baghbaderani Bahareh, Tanwar Sudeep    |
| A Deep Neural Network-based Method for MmWave Time-varying Channel Estimation   |
| Molazadeh Amirhossein, Maroufi Zahra, Ardebilipour Mehrdad  |
| A Comparison between Slimed Network and Pruned Network for Head Pose Estimation   |
| Salimiparsa Amir, Veisi Hadi, Moin Mohammad-shahram27   |
| Ensemble Model Based on an Improved Convolutional Neural Network with a Domain-agnostic Data Augmentation Technique       |
| Fatahnaie Faraz, Azhdehnia Armin, Asghari Seyyed Amir, Binesh Marvasti Mohammadreza33                                     |
| Classification of Personality Traits on Facebook Using Key Phrase Extraction, Language Models and Machine Learning        |
| Safari Faezeh, Chalechale Abdolah39   |
| Design and modeling of a waiter robot   |
| Mohammadnejad Amin, Tourajizadeh Hami44   |
| A parallel approach to the fractional time delay model for predicting the spread of COVID-19                              |
| Movahedian Moghaddam Mahdi, Parand Kourosh51  |
| A Survey on Utilizing Reinforcement Learning in Wireless Sensor Networks Routing Protocols                                |
| Forghani Elah Abadi Ali, Asghari Seyedeh Elham, Sharifani Sepideh, Asghari Seyyed Amir, Binesh<br>Marvasti Mohammadreza57 |
| Mode Selection and Resource Allocation in D2D-Enabled MC-NOMA using Matching Theory                                       |
| Gholamrezaee Alireza, Farrokhi Hamid, Zeraatkar Moghaddam Javad64   |
| Non-Linear Control of Cancer Model, Considering the Drug Resistance Using Feedback Based Chemotherapy Approach            |

| Kiaei Danial, Tourajizadeh Hami/0   |
|---|
| Web Service Ranking based on QoS and Use Prefer   |
| Siadat Seyed Hossein, Ramezani Danial, Ahani Fatemeh  |
| A Novel Approach to Data mining algorithms and IoT based data mining machine learning   |
| Ramezani Danial, Siadat Seyed Hossein   |
| A Joint Trajectory and Energy Harvesting Method for an UAV Enabled Disaster Response Network                                    |
| Mohammadi Firozjae Hosein, Zeraatkar Moghaddam Javad, Ardebilipour Mehrdad91  |
| Optimal control of robotic hand for rehabilitation using fractional order systems and EEG signal processing                     |
| Safari Dehnavi Mehran, Safari Dehnavi Vahid, Shafiee Masoud96   |
| LuckyAgent2022: A Stop-Learning Multi-Armed Bandit Automated Negotiating Agent  |
| Ebrahimnezhad Arash, Nassiri-Mofakham Faria   |
| IT-based and Non-IT-based methods to separate and collect waste   |
| Harati Hoda, Haghighi-Rad Farzad, Yousefi Zenouz Reza   |
| Recommendation Systems in Smart Agriculture: Pathway to a well-designed system  |
| Nameni Ahmad, Ghafarian Daneshmand Amir, Ebadati Omid Mahdi   |
| A Hybrid Method to Reduce the Voltage Consumption in the Spiking Neural Networks  |
| Mehdizadeh saraj Shaghayegh, Asghari Seyyed Amir, Binesh Marvasti Mohammadreza122   |
| Human Resource Allocation to the Credit Requirement Process, A Process Mining Approach  |
| Ebadati Omid Mahdi, Mehrabioun Mohammad, Sadat Hosseini Shokoofeh127  |
| Multi-label Classification of Steel Surface Defects Using Transfer Learning and Vision Transformer                              |
| Komijani Amirhossein, Vafaeinezhad Farzaneh, Khoramdel Javad, Borhani Yasamin, Najafi Esmaeil134                                |
| Optimal selection of seed nodes by reducing the influence of common nodes in the influence maximization problem                 |
| Kazemzadeh Farzaneh, Safaei Ali Asghar, Mirzarezaee Mitra   |
| Investigating the impact of management information systems (MIS) on organizational transparency with an emphasis on work ethics |
| Balouch Sadegh, Ebadati Omid mehdi  |
| A Model-Driven Approach for Automatic Generation of Android Tourism Applications  |
| Adib Sara, Zamani Bahman  |
| An OWA-Powered Dynamic Customer Churn Modeling in the banking industry Based on Customer Behavioral Vectors                     |
| Alizadeh Masoud, Soleymannejad Mohammad, Moshiri Behzad   |
|   |

| Stock Market Prediction Using Hard and Soft Data Fusion                                 |      |
|---|------|
| Mohammadi Dashtaki Saeed, Alizadeh Masoud, Moshiri Behzad                               | 164  |
| An Improved Drone Detection Method Using Deep Learning for Augmentation Detection Speed |      |
| Bahrami Mohammad, Asghari Seyyed Amir, Binesh Marvasti Mohammadreza, Ansaria Sajjad     | .171 |