

## ICTCS Accepted Papers

### **Comparison of Crossover Types to Build Improved Queries Using Adaptive Genetic Algorithm**

Khaled Almakadmeh, Wafa' Alma'aitah

### **Arabic Cultural Style Based Music Classification**

Lama Soboh, Islam Elkabani, Ziad Othman

### **Binary Dragonfly Algorithm for Feature Selection**

Majdi Mafarja, Derar Eleyan, Iyad Jaber, Abdelaziz Hammouri, Seyedali Mirjalili,

### **Reconfigurable Implementation of Fuzzy Inference System Using FPGA**

Mehdi Mohammadi, Adnan Shaout

### **CNN-Based Prediction of Frame-Level Shot Importance for Video Summarization**

Mohaiminul Al Nahian, A. S. M. Iftexhar, Mohammad Tariqul Islam, S. M. Mahbubur Rahman, Dimitrios Hatzinakos

### **Two Stage Intelligent Automotive System to Detect and Classify a Traffic Light**

Nevrus Kaja, Adnan Shaout, Omid Dehzangi

### **Evaluating the Performance of “Derandomized-LShade” Algorithm on CEC 2014 Benchmark Functions**

Raghda Hraiz, Mariam Khader , Mostafa Z. Ali , Amjad Hudaib

### **A Novel Cloud Services Recommendation System Based on Automatic Learning Techniques**

Rahma Djiroun, Meriem Amel Guessoum, Kamel Boukhalifa, Elhadj Benkhelifa

### **Statistical Selection of CNN-based Audiovisual Features for Instantaneous Estimation of Human Emotional States**

Ramesh Basnet, Mohammad Tariqul Islam, Tamanna Howlader, S. M. Mahbubur Rahman, Dimitrios Hatzinakos

### **Link Prediction Based on Whale Optimization Algorithm**

Reham Barham, Ibrahim Aljarah

### **Motor Imagery EEG Signal Processing and Classification Using Machine Learning Approach**

Sreeja. S. R, Joytirmoy Rabha, K. Y. Nagarjuna, Debasis Samanta, Pabitra Mitra, Monalisa Sarma

### **Using Fuzzy Method for Decision Making in Local Government**

Bashar H. Hewaidi

### **A New Technique for File Carving on Hadoop Ecosystem**

Esraa Alshammari, Ghazi Al-Naymat, Ali Hadi

### **A Survey of IT Outsourcing in Jordanian Market**

Abdallah Qusef

**Cache Optimization in IPTV Network Using Big Data Analytics and Mobile Agent Technology**  
Hasan Al Sakran

**A Framework for Real Time News Recommendations**  
Jalal Omer Atoum, Ibrahim Mohamed Yakti

**Development of Customs Prediction Model for Online Ordering**  
Lina Sharawi, George Sammour, Hamzah Qabbaah, Koen Vanhoof

**Optimized ANN-ABC for Thunderstorms Prediction**  
Mais Ziad Younes Yasen, Ruba Amjad Salameh Al-Jundi, Nailah Shukri Aziz Al-Madi

**Arabic Sentiment Classification: A Hybrid Approach**  
Mariam Biltawi, Ghazi Al-Naymat, Sara Tedmori

**LSHADE Enhancement Using MTS-LS1**  
Marwah Alian, Dima Suleiman, Mostafa Z. Ali

**The Effects of Features Selection Methods on Spam Review Detection Performance**  
Wael Etaawi, Arafat Awajan

**Passive DNS Analysis Using Bro-IDS**  
Abdulla Dakhgan, Ali Hadi, Jaafer Al Saraireh, Doaa Alrababah

**An Efficient Two-Server Authentication and Key Exchange Protocol**  
Durbadal Chattaraj, Monalisa Sarma, Debasis Samanta

**Phishing Websites Prediction Using Classification Techniques**  
Dyana Rashid Ibrahim, Ali Hussein Hadi

**Smart Parser for Identifying and Detecting Insecure Functions**  
Esraa Al-Shammari, Ali Hadi, Malik Qasaimeh

**State of the Art in Computer Forensic Education: A review of Computer Forensic Programmes in the UK, Europe and US**

Georgios A. Dafoulas, David Neilson, Sukhvinder Hara

**Threat Hunting Using GRR Rapid Response**  
Hussein Rasheed, Ali Hadi, Mariam Khader

**Differentially Private Stochastic Variance Reduced Gradient**  
Jaewoo Lee

**Experimental Evaluation of a Multi-layer Feed-Forward Artificial Neural Network Classifier for Network Intrusion Detection System**

Malek Al-Zewairi, Sufyan Almajali,, Arafat Awajan

**A Proposed Password-Free Authentication Scheme Based on a Hybrid Vein-Keystroke Approach**

Maria Habib, Ja'far Alqatawna

**Visualizing Clustered Botnet Traffic Using t-SNE on Aggregated NetFlows**

Muayyad Saleh Alsadi, Ali Hussein Hadi

**An Efficient E-Coin Scheme Under Elliptic Curve Cryptography**

Mustafa Al-Fayoumi, Sattar Aboud, Mohammad Al-Fayoumi, Jaafer AL Sarairoh

**Novel Algorithm in Symmetric Encryption (NASE) Based on Feistel Cipher**

Safia Bani Baker and Alaa Hussein Al-Hamami

**Toward a Detection Framework for Android Botnet**

Wadi' Hijawi, Ja'far Alqatawna, Hossam Faris

**Securing Distributed SDN Controllers against DoS Attacks**

Wael Etaiwi, Mariam Biltawi, Sufyan Almajali

**Arabic LFG-inspired Dependency Treebank**

Dana Halabi, Arafat Awajan, Ebaa Fayyumi

**Deep Learning Based Technique for Plagiarism Detection in Arabic Texts**

Dima Suleiman, Arafat Awajan, Nailah Al-Madi

**Building Domain Ontology: Experiences in Developing the Prophetic Ontology from Quran and Hadith**

Hanan A. Al-Sanasleh, Bassam H. Hammo

**Using Hybrid-Stemming Approach to Enhance Lexicon-Based Sentiment Analysis in Arabic**

Hunaida Awwad, Adil Alpkocak

**Arabic Word Sense Disambiguation - Survey**

Marwah Alian, Arafat Awajan, Akram Al-Kouz

**Building Arabic Polarized Lexicon from Rated Online Customer Reviews**

Mohammad Daoud

**Detecting Quotable Sentences from Text Using Syntactic Token Augmentation and Recurrent Neural Networks**

Sumit Terkhedkar, Janak Porwal

**Software Defect Prediction Using Feature Selection and Random Forest Algorithm**

Dyana Rashid Ibrahim, Rawan Ghnemmat, Amjad Hudaib

**Requirements Prioritization Techniques Review and Analysis**

Raneem Qaddoura, Alaa Abu-Srhan, Mais Haj Qasem, Amjad Hudaib

**Screen Size Effect on Usability of Arabic Forms for Smartphones**

Rihabb Alsalamen, Ghassan Shahin

**A Survey: Authentication Protocols for Wireless Sensor Network in the Internet of Things; Keys and Attacks**

Doaa Alrababah, Esraa Al-Shammari, Areej Alsuh

**A Cost Effective Information Display System Based on Open Source Technologies**

Feras Al-Hawari, Hadi Etaiwi, Sahel Alouneh

**Innovation in Education via Problem Based Learning from Complexity to Simplicity**

Mohammed Saleh, Nedaa Al Barghuthi, Sonia Baker

**Smart Water Distribution Management System Architecture Based on Internet of Things and Cloud Computing**

Sawsan Khaleel Alshattnawi

**On Utilizing the Pursuit Paradigm to Enhance the Deadlock-Preventing Object Migration Automation**

Abdolreza Shirvani, B. John Oommen

**Context Aware VR Using BLE Beacons**

Ahmad Jarrar, Edward Jaser

**Toward a Model for E-Learning Recommender System Adoption: A Pilot Study**

Hadeel Alharbi, Kamaljeet Sandhu

**Dynamic Evolution of Hashtags on Twitter: A Case Study from Career Opportunities Groups**

Layal Abu Daher, Rached Zantout, Islam Elkabani

**Web-Based Augmented Reality with Natural Feature Tracking and Advanced Rendering**

Mohammed A. Al-Zoube

**Fast Block Matching Criterion for Real-Time Video Communication**

Nijad Al-Najdawi