

Thirteenth International Conference on Digital Information Management (ICDIM 2018)

Venue: **Mercure Berlin MOA Hotel**

September 24- 26, 2018

Preliminary Program

September 24, 2018 - Day I
08:30 - 09:30 - Registration
09:30-09:40: Opening Ceremony
09:40-10:30- Keynote 1-Alton CHUA on The Research Landscape of User-generated Digital Information: Challenges and Possibilities (Singapore)
10:30 - 10:50 -Coffee Break
Session I -Machine Learning and Natural Language Processing
10:50-11:10: Text classification based on LSTM and attention- <i>Xuemei Bai (China)</i>
11:10-11:30: A Summary Of Using Reinforcement Learning Strategies For Treating Project And Production Management Problems - <i>Athanasios Kiatipis (Germany), Georgios Koulinas Alexandros Xanthopoulos, Athanasios Kiatipis Germany, Dimitrios Koulouriotis (Greece)</i>
11:30-11:50: Ontology of Academic Sentence Dependencies for a Verb Choice Suggestion- <i>Sarunya Kanjanawattana (Thailand)</i> <i>Sarunya Kanjanawattana (Thailand), Masaomi Kimura (Japan)</i>
11:50-12:10: K2 platform in Business process management- <i>Ivana Ogrizek Biskupic Robert Arapovic Bosnia, Herzegovina Mateo Jurcic</i> <i>Bosnia and Herzegovina (Croatia)</i>
12:10-12:30: Exploiting Function Words Feature in Classifying Deceptive and Truthful Reviews- <i>Al Hafiz Akbar Maulana Siagian</i> <i>Masayoshi Aritsugi (Japan)</i>
12:30-12:50: Sensitivity of Estimators for Measuring Information Amount in Web-Based Medical Documents- <i>Jolanta Pietraszko (Poland)</i>

12:30 - 14:00 - Lunch

Session I Contd...

14:00-14:20: Deep Learning in Classifying Sleep Stages- *Mohamed H. Al Meer MD, Abdullah Al Mamun (Qatar)*

14:20-14:40: Learning Patent Speak: Investigating Domain-Specific Word Embeddings- *Julian Risch, Ralf Krestel (Germany)*

14:40-15:00: Smart parking system - another way of sharing economy provided by private institutions- *Adrian Florea, Simona-Daniela Marcu (Romania)*

Session II - Data Mining

15:00-15:20: SimFiller: Similarity-Based Missing Values Filling Algorithm- *Fateh ur Rehman (Pakistan), Muhammad Abbas, Sajjad Murtaza (Germany), Wasi Haider Butt Usman Qamar, Saad Rehman(Pakistan)*

15:20-15:40: Attention Based Neural Architecture for Rumor Detection with Author Context Awareness- *Sansiri Tarnpradab, Kien Hua (United States)*

15:40-16:00: On the Analysis of a Public Dataset for Diabetes- *M. Omair Shafiq, Abdihakim Mao, (Canada)*

15:20-16:40: Compliance at Velocity within a DevOps Environment- *Muhammad Zaid Abrahams, Josef Langerman (South Africa)*

16:40-17:00: Development of Autonomous Intelligent System for Google Ads- *Burcu Kuleli Pak, Bora Mocan, Sema Yıldız Yoldaş, Neşe Baz(Turkey)*

17:00-17:20: Use of virtual private networks (VPN) and proxy servers: Impact of personality and demographics- *Antonin Pavlicek (Czech Republic), Frantisek Sudzina (Denmark)*

17:20-17:40: Botnet Detection in Network System Through Hybrid Low Variance Filter, Correlation Filter and Supervised Mining Process- *Ferry Astika Saputra, Muhammad Fajar Masputra, Iwan Syarif, Kalamullah Ramli (Indonesia)*

17:40-18:00: Multi-Clustering Applied to Collaborative Recommender Systems -*Urszula Kuźelewska, Arkadiusz Kuryłowicz (Poland)*

18:00-18:20 - *The importance of interaction mechanisms in blended learning courses involving problem solving e-tivities-* *Antonello Venditti, Fausto Fasano, Michele Risi, Genoveffa Tortora (Italy)*

18:20-18:40 - *Conceptualization of a knowledge management framework for governments: A case of devolved county governments in Kenya-* *Patrick Kanyi Wamuyu, Joshua Rumo Ndiege (Kenya)*

18:40-19:00 Mining Trajectory Data and Identifying Patterns for Taxi Movement Trips-*Omair Shafiq, Rami Ibrahim (Canada)*

19:00-19:20 - Interacting With Motivational Virtual Agent: The Effects of Message Framing and Regulatory Fit on Cognitive Load and Intrinsic Motivation- *Tze Wei Liew, Su-Mae Tan, Chin Lay Gan (Malaysia)*

19:20-19:30 - Grammatical Error Checking Systems: A Review of Approaches and Emerging Directions- *Nora Madi, Hend S. Al-Khalifa (Saudi Arabia)*

16:20 - 16:40 -Coffee Break

September 25, 2018 - Day II

Session III- 09:00-09:45-Tutorial -Paul NIEUWENHUYSEN on **Information discovery based on the emerging technology to analyse digital images (Belgium)**

09:45 - 10:00 -Coffee Break

Session IV - Sixth International Workshop on Data Science (IWDS 2018)

10:00-10:20: Treating Missing Data in Industrial Data Analytics- *Lisa Ehrlinger Thomas Grubinger, Bence Varga, Mario Pichler and Jürgen Zeindl (Austria)*

10:20-10:40: Machine Learning-based Code Analysis for Software Quality Assurance- *Eldar Sultanow, Gergana Vladova, Stefan Konopik and André Ullrich (Germany)*

10:40-11:00: SVM-RBM based Predictive Maintenance Scheme for IoT-enabled Smart Factory- *Soonsung Hwang Youngbin Kang, Jongpil Jeong (Korea)*

11:00-11:20: Machine Learning for Predicting the Damaged Parts of a Low Speed Vehicle Crash- *Milan Koch, Hao Wang and Thomas Bäck (Germany)*

11:20-11:40: Customer Churn Prediction for a Motor Insurance Company- *Maria Spiteri, George Azzopardi (Netherlands),*

11:40-12:00: Sensitivity Based Anonymization with Mixed Generalization- *Esther Gachanga, Micheal Kimwele and Lawrence Nderu (Kenya)*

12:00-12:20: Lung cancer medical image recognition using Deep Neural Networks- *Goran Jakimovski (Macedonia)*

12:20-12:40- A Literature Analysis for the Identification of Machine Learning- and Feature Extraction Methods for Sentiment Analysis- *Bernd MARKSCHEFFEL, Markus Habertzettl (Germany)*

12:20 - 14:00 - Lunch

Session V - Human-Computer Interaction

14:00-14:20: Ontology Coverage Tool and Document Browser for Learning Material Exploration- *Christian Grévisse (Luxembourg)*
Christian Jeff Meder, Jean Botev, Steffen Rothkugel (Luxembourg)

14.20-14:40: The Effect of Different Type of Information on Trust in Facebook Page -*Hasrini Sari, Farhan Mutaqin, Aditya Parama Setiaboedhi, (Indonesia)*

14:40-15:00: A Model-Based Approach to Guide Digital Transformation- *Hilda Tellioglu (Austria)*

15.00-15:20: Lead Lag Relationship between Investor Sentiment in Social Media, Investor Attention in Google, and Stock Return-
Hasrini Sari, Aldila Rizkiana, Pameodji Hardjomidjojo, Budhi Prihartono, Indryati Sunaryo, Ilham Prasetyo (Indonesia)

15:20-15:40: The Development and Analysis of TWISH: A Lightweight-Block-Cipher-TWINE-Based Hash Function -*Deden Irfan, Afryansyah Magfirawaty, Kalamullah Ramli (Indonesia)*

15:40-16:00 -Coffee Break

Session VI-Data Management and Big Data

15.40-16:00: PediatricDB: Data Analytics Platform for Pediatric Healthcare - *Shantanu Deshmukh, Natalia Khuri (United States)*

16.00-16:20: A Flexible Approach to Documenting and Presenting Multimedia Performances Using Motion Capture Data- *Roman Berka, Bohuš Získal, Zdeněk Trávníček (Czech Republic)*

16:20-16:40: Creating Digital Collages Inspired by English Texts- *Vandana Kannan, Natalia Khuri (United States)*

16:40-17:00: Towards Sustainable Digital Twins for Vertical Farming- *José Monteiro, João Barata, Marco Veloso, Luis Veloso, João Nunes (Portugal)*

17:20-17:40: A Data-Driven Approach to Vessel Trajectory Prediction for Safe Autonomous Ship Operations-
Brian Murray, Lokukaluge Prasad Perera (Norway)

17:40-18:00: Image Dataset for Visualizing Eye-Tracking Patterns in Autism Spectrum Disorder- *Mahmoud Elbattah, Romuald Carette, Mahmoud Elbattah, Gilles Dequen, Jean-Luc Guérin, Federica Cilia (France)*

18:00-18:20 - High Performance RDF Updates with TripleBit - *Hai Jin, Pingpeng Yuan, Lijian Fan, Hai Jin (China)*

18:20-18:40 - True Satisfaction in e-Marketing Product with focus on User Satisfaction Implementation Semantic Mechanism Methodology-
Hani Abdelsalam(Egypt)

18:40-19:00- Analyzing the Perception of Online Sheet Music Search: A Case Study *Dinuka De Silva, Saman Hettiarachchi (Sri Lanka)*

19:00-19:20 - Unsupervised Topic Detection based on 2D Vector Space model using Apriori Algorithm and NLP -*Michael George (United Arab Emirates)*

19:20-19:40- Urdu Text Classification: A comparative study using machine learning techniques-*Imran Rasheed (India)*

19:20-21.00- Conference Banquet

15:40-16:00 September 26, 2018

Session VI-Innovative Technologies

- 10.00-10:20:** An Automated Ear Detection Method based on Sobel Edge Detection and Image Subtraction Techniques- *Raad Ahmed Hadi (Iraq)*
- 10.20-10:40:** Dynamic Password Generation Using Random Pseudo Noise Compact with Random Mapping Transform Algorithm- *Saifuldeen Abdulameer Mohammed (Iraq)*
- 10:40-11:00:** A Blockchain-Enabled RFID Protocol for Supply Chain Management - *Charles Mutigwe (United States)*
- 11:20-11:20:** PerLCol: A Framework for Personalized eLearning with Collaboration Support - *Amal Al-Abri (Oman)*
- 11:20-11:40:** Function Approximation Using Multilayer SAM Spiking Neural Network- *Minoru Motoki (Japan)*
- 11:40-12:00:** Accessibility or Usability of “InteractSE”? A Heuristic Based Approach to Evaluate Proposed Search Engine for the Visually Impaired Users - *Aboubakr Aqle (Qatar)*
- 12:00-12:20** - Adoption of Bandwidth Management Technique using Dynamic LSP Tunneling and LDP in MPLS for sustainable Mobile Wireless Networks - *Oba Zubair Mustapha (UK)*
- 12:20-12:40** - Implementation and Analysis of a Serverless Shared Drive with AWS Lambda-*Saloni Gandhi (India)*
- 12:40-13:00-** A Low cost Arduino and Cloud Based In-Class Quiz System- *Yapeng Wang (China)*
- 14:00-14:20** - Automatic Arabic Part-of-Speech Tagging: A Deep Learning LSTM Neural Network Approach-*Michael George (United Arab Emirates)*
- 14:20-14:40-** Financial Risk Prediction based on Neural Networks and Maximum Entropy-*Abdelali El Bouchti (Morocco)*
- 14:40-15:00** Average Weights of Eigenvalue Decomposition for Efficient Face Image Processing-*Ali Elmahmudi(UK)*
- 15:00-15:20** Security Processes as Machines: A Case Study-*Sabah Al-Fedaghi (Kuwait)*
- 15:20-15:40** Empirical analysis on the efficiency of clustering algorithms based on the significance of cluster size- *Sunitha Cheriyan (Oman)*
- 15:40-16:00** Wavelength Assignment for Conducting Exchanged Folded Hypercube Communication Pattern on Optical Bus-*Yu-Liang Liu (Taiwan)*
- 16:20-16:40** On the Bio-inspired Computational framework for exploring the production and management of sustainable energy- *Olugbenga Oluwabem (South Africa)*
- 16:40-17:00** Texture and Medical Image Classification using Wavelet Completed Local Ternary Count (WCLTC) Texture Descriptor -*Fatimah A.Alkareem (Malaysia)*
- 17:00-17:20** Cloud Service Supplier Assessment: A Delphi Study- *Olusola Akinrolab (UK)*
- 17:20-17:40** Protecting the Confidentiality and the Privacy Preservation of the Ghana National Health Insurance Scheme Members-

Kingsford Kissi Mireku (China)

17:40-18:00 Designing an Unmanned Surface Vehicle for Water quality monitoring-Xiaohui Zhu (China)

18:00-18:20 Blockchain as an enabler for the Social Health Insurance Program in the kingdom of Bahrain - Hasan Al-Aswad (Bahrin)

18:20-18:40 Distributed Ledger Transformations for Fintech Industry, Challenges, and Opportunities-Sameer AlJeshi (Bahrin)

18:40-19:00 A security and performance review of IoT encryption algorithms-Hesham Hasan (Bahrain)

19:00-19:20 Future Generation of Unmanned Retails and Algorithm-Self-Tengyue Li (China)