

Future of Information and Communication Conference (FICC) 2018

5-6 April 2018, Singapore

CONFERENCE AGENDA

SPONSORS AND PARTNERS



CONFERENCE AGENDA

DAY 1 (5th April)

- 8:00 am – 8:30 am **Delegates Check-in**
- 8:30 am – 10:30 am **Conference Opening (Atrium Ballroom)**
- KEYNOTE TALKS**
Keynote 1 - Markku Lepisto, Google
Keynote 2 - Tsuguo Nobe, Intel Corp.
- 10:30 am – 11:00 am **POSTER PRESENTATIONS (Foyer)**
- 11:00 am - 12:45 pm **PAPER PRESENTATIONS**
Session 1 - Machine Learning
Session 2 - Data Science
Session 3 - Ambient Intelligence
- 12:45 pm – 1:30 pm **Lunch**
- 1:30 pm – 3:00 pm **PAPER PRESENTATIONS**
Session 4 - Communication
Session 5 - Data Science
Session 6 - Internet of Things
- 3:00 pm – 3:45 pm **KEYNOTE TALK**
Keynote 3 - Wenbin Zhang, IBM Research
- 3:45 pm - 4:00 pm **Networking Break**
- 4:00 pm – 5:30 pm **PAPER PRESENTATIONS**
Session 7 - Computing
Session 8 - Data Science
Session 9 - Internet of Things

DAY 2 (6th April)

- 8:00 am **Delegates Arrive**
- 8:30 am – 10:30 am **KEYNOTE TALKS (Atrium Ballroom)**
Keynote 4 - David W Stupples, City University London
Keynote 5 - Maode Ma, NTU Singapore
- 10:30 am – 11:00 am **Networking Break (Foyer)**
- 11:00 am – 12:45 pm **PAPER PRESENTATIONS**
Session 10 - Data Science
Session 11 - Computing
Session 12 - Security and Privacy
- 12:45 pm – 1:30 pm **Lunch**
- 1:30 pm – 3:00 pm **PAPER PRESENTATIONS**
Session 13 - Communication
Session 14 - Intelligent Systems
Session 15 - Security and Privacy
- 3:00 pm – 3:30 pm **Networking Break**
- 3:30 pm – 5:00 pm **PAPER PRESENTATIONS**
Session 16 - Communication
Session 17 - Networking
Session 18 - Security and Privacy
- 5:00 pm – 5:30 pm **Closing Ceremony**

KEYNOTE SPEAKERS



Markku Lepisto

Google

5th April | 8:45 am - 9:30 am



Tsuguo Nobe

Intel Corp.

Keynote Title: Mobility-as-a-Service with Level 4 self-driving cars will transform the industry

5th April | 9:30 am - 10:15 am



Wenbin Zhang

IBM Research

5th April | 3:00 pm - 3:30 pm



David W Stupples

City University London

6th April | 8:45 am - 9:30 am



Maode Ma

Nanyang Technological University

Keynote Title: A PMIPv6-based Secured Mobility Scheme for 6LoWPANs

6th April | 9:30 am - 10:15 am

5th April 2018 (11:00 am - 12:45 pm)

PAPER PRESENTATIONS

Session 1 - Machine Learning

(Room: Atrium)

21 - When Siri Knows How You Feel: Study of Machine Learning in Automatic Sentiment Recognition from Human Speech (Presenter: Liu Zhang, Singapore)

240 - Hand Gesture Authentication using Depth Camera (Presenter: Jiro Tanaka, Japan)

332 - FSL-BM: Fuzzy Supervised Learning with Binary Meta-Feature for Classification (Presenter: Kamran Kowsari, United States)

114 - A Generic Multi-modal Dynamic Gesture Recognition System using Machine Learning (Presenter: Gautham Krishna G, Ankith . A Prabhu, India)

142 - A Prediction Survival Model based on Support Vector Machine and Extreme Learning Machine for Colorectal Cancer (Presenter: Rajni Bala, India)

Session 2 - Data Science

(Room: Changi 2)

143 - The Meaning of Big Data in the Support of Managerial Decisions in Contemporary Organizations. Review of Selected Research (Presenter: Leszek Ziara, Poland)

144 - Personalized Social Connectivity and Reputation (Presenter: Anton Kolonin, Russia)

165 - Group Trip Recommendation Systems (Presenter: Sheng-Min Chiu, Taiwan)

218 - Utilizing Social Media Analytics to Recommend Personalized Gifts using Content-based and Multicriteria Collaborative Filtering (Presenter: Marisa Buctuanon, Philippines)

247 - New Modification Version of Principal Component Analysis with Kinetic Correlation Matrix using Kinetic Energy (Presenter: Sara Alruzaqi, United Kingdom)

252 - Prediction Model for Prevalence of Type-2 Diabetes Complications with ANN Approach Combining with K-Fold Cross Validation and K-Means Clustering (Presenter: Md Tahsir Ahmed Munna, Bangladesh)

Session 3 - Ambient Intelligence

(Room: Changi 3)

130 - US2: An Unified Safety and Security Analysis Method for Autonomous Vehicles (Presenter: Giedre Sabaliauskaite, Singapore)

320 - Laughbot: Detecting Humor in Spoken Language with Language and Audio Cues (Presenter: Annie Hu, Natalie Muenster, Kate Park, United States)

101 - An Approach to Verify Heavy Vehicle Driver Fatigue Compliance Under Australian Chain of Responsibility Regulations (Presenter: Joel Scanlan, Australia)

244 - Understanding the Adoption of Chatbot: A Case Study of Siri (Presenter: Hio Nam Io, Macau)

250 - Emergency Departments: A Systematic Mapping Review (Presenter: Salman Alharethi, Saudi Arabia)

5th April 2018 (1:30 pm – 3:00 pm)

PAPER PRESENTATIONS

Session 4 - Communication

(Room: Atrium)

- 87 - Cognitive Channel Decoding (Presenter: Natasa Zivic, Germany)
- 97 - Scenario-based Functional Safety for Automated Driving on the Example of Valet Parking (Presenter: Valerij Schönemann, Germany)
- 283 - Energy Efficient Cognitive Radio Network using High Altitude Platform Station (Presenter: Umar Albalawi, Saudi Arabia)
- 281 - Partition based Product term Retiming for Reliable Low Power Logic Structure (Presenter: Jalaja S, India)
- 26 - Performance Enhancement of MIMO – MGSTC using a New Detection and Decoding Technique (Presenter: Wurod Qasim Mohamed, Iraq)

Session 5 - Data Science

(Room: Changi 2)

- 319 - Improved Accuracy Stock Price Change Prediction Model using Trading Volume (Presenter: Zhen Wei, United Kingdom)
- 120 - Visual Video Analytics for Interactive Video Content Analysis (Presenter: Julius Schöning, Germany)
- 330 - Improving Subject-Independent EEG Preference Classification using Deep Learning Architectures with Dropouts (Presenter: Jason Teo, Malaysia)
- 352 - Data Mining and Knowledge Management Application to Enhance Business Operations: An Exploratory Study (Presenter: Zeba Mahmood, Pakistan)
- 171 - How Much is My Car Worth? A Methodology for Predicting used Cars Prices using Random Forest (Presenter: Puneet Kohli, United States)

Session 6 - Internet of Things

(Room: Changi 3)

- 248 - Aiding Autobiographical Memory by using Wearable Devices (Presenter: Jiro Tanaka, Japan)
- 317 - Cerebral Blood Flow Monitoring using IoT Enabled Cloud Computing for Mhealth Applications (Presenter: Shahnam Mirzaei, United States)
- 139 - Adaptive Edge Analytics - A Framework to Improve Performance and Prognostics Capabilities for Dairy IOT Sensor (Presenter: Chandrasekar Vuppapapati, United States)
- 288 - A Survey on SDN based Security in Internet of Things (Presenter: Renuga Kanagavelu, Singapore)
- 278 - Intelligent Communication between IoT Devices on Edges in Retail Sector (Presenter: M Saravanan, India)

5th April 2018 (4:00 pm – 5:30 pm)

PAPER PRESENTATIONS

Session 7 - Computing (Room: Atrium)	Session 8 - Data Science (Room: Changi 2)	Session 9 - Internet of Things (Room: Changi 3)
<p>336 - Benchmarking the Object Storage Services for Amazon and Azure (Presenter: Hassan Hajjdiab, United Arab Emirates)</p> <p>172 - Proposing Pre Test Case Testing Technique for Quality Nightly Builds (Presenter: Usman Zuberi, Pakistan)</p> <p>59 - Enhancing the Usability of Android Application Permission Model (Presenter: Zeeshan Haider Malik, Habiba Farzand, Zahra Shafiq, Pakistan)</p> <p>64 - MUT-APR: MUTation-based Automated Program Repair Research Tool (Presenter: Fatmah Assiri, Saudi Arabia)</p> <p>82 - An Improvement of the Standard Hough Transform Method based on Geometric Shapes (Presenter: Sere Abdoulaye, Burkina Faso)</p>	<p>268 - Predicting Video Game Players' Fun from Physiological and Behavioural Data (Presenter: Alexis Fortin-Côté, Sebastien Tremblay, Canada)</p> <p>95 - Accuracy of Clustering Prediction of PAM and K-Modes Algorithms (Presenter: Vasil Hnatyshin, United States)</p> <p>286 - Multiple Publications: The Main Reason for the Retraction of Papers in Computer Science (Presenter: Mymoona Al-Hidabi, Phoey Lee The, Malaysia)</p> <p>49 - SQL and NoSQL Database Comparison (Presenter: Emily Ming Li Chang, Malaysia)</p> <p>153 - Keypoints and Codewords Selection for Efficient Bag-of-Features Representation (Presenter: Veerapathirapillai Vinoharan, Sri Lanka)</p> <p>84 - The IBS as a Catalyst – Data Driven Insights (Presenter: Manchuna Shanmuganathan, Canada)</p>	<p>91 - SDWM: Software Defined Wi-Fi Mobility for Smart IoT Carriers (Presenter: Walaa Elsadek, Egypt)</p> <p>94 - Smart Eco-Friendly Traffic Light for Mauritius (Presenter: Bilaal Abdel Hassan, Mauritius)</p> <p>131 - Logistics Exceptions Monitoring for Anti-Counterfeiting in RFID-Enabled Supply Chains (Presenter: Xiaoming Yao, China)</p> <p>145 - Raspberry Pi based Smart Control of Home Appliance System (Presenter: El-Hadi Koumeri, Algeria)</p> <p>148 - An IoT based Authentication and Fire Alarming System for Smart Building using Raspberry Pi (Presenter: El-Hadi Koumeri, Algeria)</p> <p>65 - Smarthealth Simulation Representing a Hybrid Architecture Over Cloud Integrated with IoT (Presenter: Sarah Shafqat, Pakistan)</p>

6th April 2018 (11:00 am – 12:45 pm)

PAPER PRESENTATIONS

Session 10 - Data Science (Room: Atrium)	Session 11 - Computing (Room: Changi 2)	Session 12 - Security and Privacy (Room: Changi 3)
<p>291 - Propositions on Big Data Business Value (Presenter: Tommi Laukkanen, Emma Pirskanen, Finland)</p> <p>334 - Pattern Identification by Factor Analysis for Regions with Similar Economic Activity based on Mobile Communication Data (Presenter: Gundars Berzins, Latvia)</p> <p>135 - Elaborating Declaration of Medical Big Data (Presenter: Fadia Shah, Canada)</p> <p>125 - Forecasting Player Behavioral Data and Simulating in-Game Events (Presenter: Anna Guitart Atenza, Japan)</p> <p>274 - Discovering the Graph Structure in Clustering Results (Presenter: Evgeny Bauman, United States)</p> <p>257 - Enriching Existing Ontology using Semi-Automated Method (Presenter: Md Javed Hasan, Bangladesh)</p>	<p>162 - Blockchain-based Distributed Compliance in Multinational Corporations' Cross-Border Intercompany Transactions (Presenter: Wenbin Zhang, Singapore)</p> <p>156 - Effective Local Reconstruction Codes based on Regeneration for Large-Scale Storage Systems (Presenter: Quanqing Xu, Singapore)</p> <p>249 - Self- and Regulated Governance Simulation: Exploring Governance for Blockchain Technology (Presenter: Hock Chuan Lim, United Arab Emirates)</p> <p>167 - HIVE-EC: Erasure Code Functionality in HIVE through Archiving (Presenter: Aatish Chiniah, Mauritius)</p> <p>118 - GPU_MF_SGD: A Novel GPU-Based Stochastic Gradient Descent Method for Matrix Factorization (Presenter: Mohamed Ali, Kuwait)</p> <p>335 - Design Optimization of Activity Recognition System on an Embedded Platform (Presenter: Ateendra Ramesh, India)</p>	<p>67 - Hybrid Data Mining to Reduce False Positive and False Negative Prediction in Intrusion Detection System (Presenter: Biswajit Panja, United States)</p> <p>126 - Optimizing Noise Level for Perturbing Geo-location Data (Presenter: Rajat Tandon, United States)</p> <p>315 - Anonymization of System Logs for Preserving Privacy and Reducing Storage (Presenter: Siavash Ghiasvand, Germany)</p> <p>324 - Detecting Target-Area Link-Flooding DDoS Attacks using Traffic Analysis and Supervised Learning (Presenter: Ngai-Man Cheung, Singapore)</p> <p>69 - Adblock Usage in Web Advertisement in Poland (Presenter: Artur Strzelecki, Poland)</p> <p>62 - Storage Optimization using Secure Image Hashing (Presenter: Sri Gurubaran B, India)</p>

6th April 2018 (1:30 pm – 3:00 pm)

PAPER PRESENTATIONS

Session 13 - Communication

(Room: Atrium)

- 134 - Comparative Analysis of Digital Circuits using 16nm Finfet and HKMG PTM Models (Presenter: Satish Masthenahally, Oman)
- 253 - 3 D Circular Embedded Antenna Mounted on Coaxial Feeding for Future Wideband Applications (Presenter: Dong You Choi, South Korea)
- 280 - Ranking based System to Reduce Free Riding Behavior in P2P Systems (Presenter: Prem Nath, India)
- 85 - A Novel Distributed Multi-Access Platform for Broadband Triple-Play Service Delivery (Presenter: Azrin Aris, Malaysia)
- 305 - A Passive Detection and Tracking Divers Method based on Energy Detection and EKF Algorithm (Presenter: Sumit Chakravarty, United States)

Session 14 - Intelligent Systems

(Room: Changi 2)

- 272 - Conditional Image Synthesis using Stacked Auxiliary Classifier Generative Adversarial Networks (Presenter: Zhongwei Yao, United Kingdom)
- 255 - Modified Adaptive Neuro-Fuzzy Inference System Trained by Scoutless Artificial Bee Colony (Presenter: Norlida Hassan, Malaysia)
- 355 - Intelligent Time Series Forecasting Through Neighbourhood Search Heuristics (Presenter: Murphy Choy, Singapore)
- 228 - Haar Cascade Classifier and Lucas-Kanade Optical Flow based Realtime Object Tracker with Custom Masking Technique (Presenter: Karishma Mohiuddin, Bangladesh)
- 223 - Recognition of Fingerprint Biometric System Access Control for Car Memory Settings through Artificial Neural Networks (Presenter: Abdul Rafay Pathan, Pakistan)
- 164 - User-driven Intelligent Interface on the Basis of Multimodal Augmented Reality and Brain-Computer Interaction for People with Functional Disabilities (Presenter: Sergii Stirenko and Jiang Hui)

Session 15 - Security and Privacy

(Room: Changi 3)

- 89 - Open Algorithms for Identity Federation (Presenter: Thomas Hardjono, United States)
- 311 - Investigating the Effective use of Machine Learning Algorithms in Network Intruder Detection System (Presenter: Intisar Al-Mandhari, United Kingdom)
- 333 - The Detection of Fraud Activities on the Stock Market Through Forward Analysis Methodology of Financial Discussion Boards (Presenter: Pei Shyuan Lee, Malaysia)
- 217 - Security Enhancement of Internet of Things using Service Level Agreements and Lightweight Security (Presenter: Kuo-Qin Yan, Taiwan)
- 285 - Walsh Sampling with Incomplete Noisy Signals (Presenter: Yi Janet Lu, Norway)

6th April 2018 (3:30 pm – 5:00 pm)

PAPER PRESENTATIONS

Session 16 - Communication

(Room: Atrium)

163 - Possibilities to Improve Online Mental Health Treatment: Recommendations for Future Research and Developments (Presenter: Dennis Becker, Germany)

207 - End to End Deep Neural Network Frequency Demodulation of Speech Signals (Presenter: Dan Elbaz, Israel)

260 - Robustness of Intelligent Vehicular Rerouting Towards Non-Ideal Communication Delay (Presenter: Christian Backfrieder, Austria)

115 - Fair Comparison of DSS Codes (Presenter: Ninoslav Marina, Macedonia)

201 - Multi-Sensors 3D Fusion in the Presence of Sensor Biases (Presenter: Pham Cong Dan, Vietnam)

Session 17 - Networking

(Room: Changi 2)

282 - Flow Characteristic-Aware Cache Replacement Policy for Packet Processing Cache (Presenter: Hayato Yamaki, Japan)

98 - Evaluation of Parameters Affecting the Performance of Real Time Streaming on Real Time Communication Library in Named Data Networking (Presenter: F. Astha Ekadiyanto, Indonesia)

20 - Threshold Sensitive Distributed Energy Efficient Clustering Protocol for Wireless Sensor Network (Presenter: Priya Papechen, India)

276 - A Pro-active and Adaptive Mechanism for Fast Failure Recovery in SDN Data Centers (Presenter: Renuga Kanagavelu, Singapore)

150 - Strong Degrees in Single Valued Neutrosophic Graphs (Presenter: Said Broumi, Morocco)

Session 18 - Security and Privacy

(Room: Changi 3)

105 - A Hybrid Anomaly Detection System for Electronic Control Units Featuring Replicator Neural Networks (Presenter: Marc Weber, Germany)

243 - Efficient Polynomial Multiplication via Modified Discrete Galois Transform and Negacyclic Convolution (Presenter: Ahmad Al Badawi, Singapore)

259 - Privacy Preserving Computation in Home Loans using the FRESCO Framework (Presenter: Fook Mun Chan, Singapore)

261 - Practically Realisable Anonymisation of Bitcoin Transactions with Improved Efficiency of the Zerocoin Protocol (Presenter: Jistine Paul, Singapore)

326 - Intrusion detection system based on a deterministic finite automaton for smart grid systems (Presenter: Nadia Boumkheld, Morocco)