

SCITA CONFERENCE - DAY 1 (Mon 27 November 2017) [Lecture Hall]

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| 08:00 - 09:00 am | Registration |
| 09:00 - 09:40 am | Quran Recitation |
| | Opening Speech [Prof. Amin Noaman, Vice President of Development, KAU] |
| | Promo Video |
| | HPC Center @ KAU [Dr. Iyad Katib, Director, HPC Center, KAU] |
| | KAU Vision for SCITA [Prof. Abdulrahman Obaid Al-Youbi, President, KAU] |
| | Honouring the Speakers and Sponsors [Prof. Abdulrahman Obaid Al-Youbi, President, KAU] |
| 09:40 - 10:00 am | COFFEE/TEA BREAK |
| 10:00 - 10:10 am | General Chairs' Welcome [Prof. Rashid Mehmood, KAU & Dr. Budhendra L. Bhaduri, ORNL] |
| | Plenary Session I [Chair: Prof. Simon See] |
| 10:10 - 11:10 am | Superclouds – Scalable High Performance Nonstop Infrastructure for AI and Smart Societies [Prof. Bill McColl, Huawei Research & Oxford University] |
| 11:10 - 12:10 pm | Challenges and Opportunities in the Analysis for Future Urban Transport Systems [Prof. John Polak, Imperial College London] |
| 12:10 - 01:00 pm | LUNCH BREAK |
| | Plenary Session II [Chair: Prof. Bill McColl] |
| 01:00 - 02:00 pm | Toward the Genomic-Information Society [Prof. Takashi Gojobori, KAUST] |
| 02:00 - 03:00 pm | Big Urban Data, Geospatial Computing, and My 2 Cents in an Open Data Economy [Dr. Budhendra L. Bhaduri, ORNL] |
| 03:00 - 03:30 pm | COFFEE/TEA BREAK |
| | Plenary Session III [Chair: Prof. Takashi Gojobori] |
| 03:30 - 04:30 pm | AI Computing for Smart Cities [Prof. Simon See, Nvidia] |
| 04:30 - 05:30 pm | The Korean IFEZ Smart-City and its Cloud Data Center for the Local Government [Dr. Sangho Lee, U-CITY] |

SCITA CONFERENCE - DAY 2 (Tue 28 November 2017)

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| 08:00 - 09:00 am | Poster Session Registration | | | |
| | Plenary Session IV [Chair: Dr. Budhendra L. Bhaduri] (Lecture Hall) | | | |
| 09:00 - 09:45 am | What makes things smart [Dr. Stefan Weidner, SAP UCC] | | | |
| 09:45 - 10:05 am | Infrastructure for Smarter Societies [FUJITSU] | | | |
| 10:05 - 10:20 am | COFFEE/TEA BREAK | | | |
| | Plenary Session V [Chair: Prof. John Polak] (Lecture Hall) | | | |
| 10:20 - 10:50 am | Smarter Cities: The next generation [Dr. Ahmed Shabana, IBM] | | | |
| 10:50 - 11:30 am | A Smarter Jeddah [Prof. Arwa Al-Aama, KAU] | | | |
| 11:30 - 12:00 pm | Light Weight Crypto Solutions for Cyber Physical Systems and Mobile Cloud Computing Environment [Dr. Lo'ai Tawalbeh, Umm Al-Qura University] | | | |
| 12:00 - 01:00 pm | LUNCH BREAK | | | |
| | Lecture Hall E-Governance Session [Dr. Maysoon Abulkhair] | Seminar Room 1 Applications Session [Dr. Manar Salamah] | Seminar Room 2 Infrastructure Session [Dr. Aiiad Albeshri] | Seminar Room 3 Healthcare Session [Dr. Fatmah Assiri] |
| 01:00 - 01:15 pm | Analysis of Tweets in Arabic Language for Detection of Road Traffic Conditions [Ebtesam Alomari] | Parallel Shortest Path Graph Computations of United States Road Network Data on Apache Spark [Yasir Arfat] | Big Data and HPC Convergence: The Cutting Edge and Outlook [Sardar Usman] | A Lightweight and Secure Framework for Hybrid Cloud based EHR Systems [Dr. Basit Qureshi] |
| 01:15 - 01:30 pm | Automatic Event Detection in Smart Cities Using Big Data Analytics [Sugimiyanto Suma] | The Application of Geographic Information System (GIS) on five basic indicators of Sustainable Urban Transport Performance [Puji Nadi] | A Framework for Faster Porting of Scientific Applications between Heterogeneous Clouds [Dr. Waseem Ahmed] | Big Data Enabled Healthcare Supply Chain Management: Opportunities and Challenges [Shoayeb Alotaibi] |

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| 01:30 - 01:45 pm | Location Privacy in Smart Cities Era [Raed Saeed] | Performance Evaluation of Jacobi Iterative Solution for Sparse Linear Equation System on Multicore and Manycore Architectures [Samiah Alzahrani] | Efficient Execution of Smart City's Assets through a Massive Parallel Computational Model [M. Usman Ashraf] | DNA Profiling Methods and Tools: A Review [Emad Alamoudi] |
| 01:45 - 02:00 pm | Disaster Management in Smart Cities by Forecasting Traffic Plan using Deep Learning and GPUs [Muhammad Aqib] | Parallel Sparse Matrix Vector Multiplication on Intel MIC: Performance Analysis [Hana Alyahya] | Power Efficiency of a SBC based Hadoop Cluster [Dr. Basit Qureshi] | A Smart Pain Management System Using Big Data Computing [Waleed Al Shehri] |
| 02:00 - 02:15 pm | D2TFRS: An Object Recognition method for Autonomous Vehicles based on RGB and Spatial Values of Pixels [Furqan Alam] | Designing PID Controller based Semi-Active Suspension System using MATLAB Simulink [Dr. Mohsin Jamil] | Internet of Vehicles: Integrated Services over Vehicular Ad hoc Networks [Dr. Hasan Ali Khattak] | Towards a Mobile Cloud Framework for First Responder Teams in Smart Emergency Management [Dr. Aakash Ahmad] |
| 02:15 - 02:30 pm | Enabling Reliable and Resilient IoT based Smart City Applications [Thaha Muhammed] | A Safety IoT-Based System for a Closed Environment [Dr. El-Hadi Khoumeri] | Secure Communication Protocol Between Two Mobile Devices Over Short Distances [Dr. M. Umair Khan] | Towards a Semantically Enriched Computational Intelligence (SECI) Framework for Smart Farming [Dr. Asia Khanum] |
| 02:30 - 02:40 pm | Best Paper/Poster Awards Ceremony [Prof. Yusuf Al-Turki & Prof. Amin Noaman, KAU] | | | |
| 02:40 - 02:45 pm | General Chairs' Closing Speech [Prof. Rashid Mehmood, KAU & Dr. Budhendra L. Bhaduri, ORNL] | | | |
| 02:45 - 03:30 pm | Networking/Refreshments | | | |

SCITA CONFERENCE - DAY 3 (Wed 29 November 2017)

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| 08:30 - 09:00 am | Registration | | | |
| | Lecture Hall | Seminar Room 1 | Seminar Room 2 | Seminar Room 3 |
| 09:00 - 12:00 pm | WORKSHOP: How things are made smart(er) [Part1] [Dr. Stefan Weidner] | Tutorial: Big Data Analytics using Apache Spark with Smart City Applications [Yasir Arfat & Sugimiyanto Suma] | Tutorial: How to run applications on the Aziz supercomputer [Fujitsu] | Tutorial: Location Privacy and the Emerging Smart Cities [Raed Saeed] |
| 10:30 - 11:00 am | COFFEE/TEA BREAK | | | |
| 12:00 - 01:00 pm | LUNCH BREAK | | | |
| 01:00 - 04:00 pm | WORKSHOP: How things are made smart(er) [Part2] [Dr. Stefan Weidner] | Tutorial: Programming Deep Learning in TensorFlow with Smart City Applications [Muhammad Aqib] | Tutorial: GPU Programming for Smart Cities with NVIDIA CUDA [Thaha Muhammed] | Tutorial: Parallel Computing with MPI [Sardar Usman & Emad Alamoudi] |
| 02:30 - 03:00 pm | COFFEE/TEA BREAK | | | |

SCITA CONFERENCE (Day 2) - Additional Accepted Papers

08:00 - 09:00 am

Oral Presentations

A Theoretical architecture for Traffic Management through Software Defined mobile network in 5G environments [*Ahmed Alshafut, and Vijey Thayananthan*]

IoT-based Implementation and Mobility-driven Management of the Smart and Energy Efficient Home Appliance Ecosystem [*Aakash Ahmad, Ahmed B. Altammimi, and Mohammad T. Alshammar*]

Land Suitability Assessment for the Potential Location of Transit Oriented Development (TOD) [*Herika Muhamad Taki, Satria Antoni, Mohamed Mahmoud H. Maatouk, and Emad Mohammed Qurnfulah*]

Maintaining Trust through Continuous Assessment [*Hasan Ali Khattak, Ahmad Ali, Mansoor Ahmed and Zoobia Ameer*]

Preserving Privacy of Smart Cities based on the Fog Computing [*Adnan Ahmad Abi Sen, Fathy Albouraei Eassa, and Kamal Al-Jamby*]

Towards a Mobile Cloud Framework for First Responder Teams in Smart Emergency Management [*Aakash Ahmad, Numra Saeed, Ahmed B. Altammimi, and Abdulrahman Alreshidi*]

Towards a Model-Based Testing Framework for the Security of Internet of Things for Smart City Applications [*Moez Krichen, Omar Cheikhrouhou, Mariam Lahami, and Afef Jma*]

SCITA CONFERENCE (Day 2) - Accepted Posters (Second Call)

| 08:00 - 09:00 am | Poster Session |
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| | A Context-Aware Spatio-Temporal Framework to Connect Massive Crowd in Smart Cities around the World [Dr. Mohamed Abdur Rahman] |
| | A Luggage Checkin Application [Amna Moussa, Mona Abdulbaqi, Sarah Al-Ghamdi, Shahad Sait, Shorouq Basnawi, and Sara Yousef] |
| | BalSaM A Smart Medication Management System [Atheer Al-Omary, Mariam Al-Ghamdi, Shatha Al-Ahmadi, Malak Al-Zahrani, Alaa Al-Sayed, and Reem Al-Otaibi] |
| | Comparison-Shopping Websites in Saudi Arabia- Loans as a Case Study POSTER3 [Muath Alfawzan, and Raad Alturki] |
| | Crowd Detection Management System [Azzah Alzahrani, Bashayer Ahyaf, Bushra Alghamdi, and Wafa Shalash] |
| | Diagnostic System For Articulation Measurement [Hanin Lutfi Falatath, Rawan Abdullah Al-shehri, Nouran Azam Naizer, Wafaa Hamdan Al-shehri and Haneen Hasan Alahamadi] |
| | Donation Management System for Community Service [Nuhaa Alshawi, Reham Alattas, Ghofran Melibari, and Hanene Ben-Abdallah] |
| | iKaaba [Kholoud Ali, Noura Ashmeel, Hana'a Bantan, Hawazen Al-Zahrani, and Noof Rahimi] |
| | Image Assistant [Latifa Aljiffry - Raghdah Nahhas - Noora Alhindi - Somayah Alamoudi, and Amani Tariq Jamal] |
| | Indoors Localization and Routing Mobile Application [Mary Hadi] |
| | JEDFoodTrucks [Raghdah Nahhas, Noora Alhindi, Somayah Alamoudi, Latifa Al-Jiffry, Amani Jamal and Arwa Magrabi] |
| | Mathy [Aljohara Alshaeri, Ahad Alshumrani, Abrar Alotaibi, Marwa Alshaikh, and Ahad Ba-Abdullah] |
| | Person Safety and GPS Tracking Using IoT based on Arduino and 4G Technologies [Amir Hammami, and Ahmed Eddaoui] |
| | Predicting Student's Performance Using Data Mining Techniques [Njoud Alangari, and Raad Alturki] |
| | SafeChild [Nada Alsaab, Ameera Milibari, and Heken Bakhsh] |
| | School Bus Tracking Application [Nouf Al-Nejaimi, Maram Al-Ghamdi, Amal Al-Ghamdi, Amal Balkhair, and Haneen Al-Ahmd] |
| | Smart Child Protection System [Salwa Alzahrani, Maryam Alghamdi, and Rawan Altalhi] |
| | Tangible Geogrpahic Table [Afaf Alamri, Asmaa Al-thaqafi, Ebtissam Alshehri, Haneen Albarqi, Ebtihal Alqarni, Koloud Aljehani, and Wafa Almkadi] |
| | Toward KAU Smart Campus with Interactive Context aware Mobile Augmented Reality [Mohammed Salim Almaliki, Bassam Abdulhafeth ALsaedi, and Ahmad Hoirul Basori] |