

# Software Innovation for Smart Knowledge Cities

December 12– 13, 2017



3<sup>rd</sup> Africa and Middle East  
Conference on Software Engineering

## About AMECSE Conferences

Africa and Middle East Conference on Software Engineering (AMECSE) is a series of conferences started in 2014 as the first forum in the region for practitioners and researchers to present and share the most recent innovations, trends, experiences and concerns in the field of Software Engineering. Every edition of AMECSE fosters a theme that is deemed important for tackling pressing challenges in our region.

## Conference Organization

### Honorary General Chair

Asmaa Hosny, ITIDA, Egypt

### Conference Chair

Hossam Osman, ITIDA, Egypt

### Program Chair

Haitham Hamza, SECC/ITIDA, Egypt

### Organizing Committee

Haitham Hamza, Chair, SECC/ITIDA, Egypt  
Azza Kamal, SECC/ITIDA, Egypt  
Lauaie Adel, SECC/ITIDA, Egypt  
Sherine Faragallah, SECC/ITIDA, Egypt  
Iman ELDesouky, SECC/ITIDA, Egypt

### Publicity and Branding

Maha Rashad, ITIDA, Egypt  
Sherif Gharba, ITIDA, Egypt  
Sameh Tomoum, ITIDA, Egypt  
Ahmed Hussein, SECC/ITIDA, Egypt

### Conference Proceedings

Haitham Hamza, SECC/ITIDA, Egypt  
Azza Kamal, SECC/ITIDA, Egypt

### Website

Azza Kamal, SECC/ITIDA, Egypt



## Organizers



## Call for Submissions and Participation

*Smart Knowledge City* has been widely used to refer to a city that leverages digital technologies to improve the quality of life for its citizens in all aspects (e.g., health, education, transportation, utilities). Typically, ICT infrastructure plays a central role in developing and advancing smart knowledge cities; however, it is becoming increasingly evident that investments in infrastructure without value-added end-user services and applications would greatly diminish the ROI of smart knowledge cities. Thanks to the pervasive ICT, citizens are now generating a sheer amount of data around the clock. Envisioned smart knowledge cities will be full of applications and services that capitalize on these data. Innovative software engineering methods, technologies, and tools must be developed and adapted to fit the nature and requirements of emerging smart knowledge cities.

The theme of the third edition of the Africa and Middle East Conference on Software Engineering (AMECSE 2017) is **Software Innovation for smart Knowledge Cities**. AMECSE 2017 aims at leveraging the power of knowledge, the wide spectrum of modern software methods and technologies, and innovation to realize the ecosystem of the smart knowledge cities. AMECSE 2017 specifically promotes the contributions that discuss the deployment of the latest innovations in software engineering methods, technologies, practices, and processes needed for developing smart knowledge cities. **AMECSE 2017** is organized **In-Cooperation with the ACM SIGSOFT**.

We solicit high quality contributions in one or more of the following three types of submissions:

- **Industrial and Research Papers** typically report new and innovative results in empirical, theoretical, tool-oriented, or conceptual work. **AMECSE 2017 accepted papers will be published in the ACM Conference Proceedings Series (ACM-ICPS) with ISBN 978-1-4503-5512-4.**
- **Tutorials** are short lectures delivered by leaders in industry or academia to provide hands-on experience in new and emerging technologies and tools.
- **Demos** provide a channel for industry and academia to demonstrate and share their products prototypes for implementing smart knowledge cities with the community in an informal and exciting setting.

## Conference Topics

AMECSE 2017 invites submissions addressing different aspects of utilizing software in knowledge cities as:

- Data/Knowledge Management
- Cities Dashboards Technologies
- Citizen Management
- Environment and Urban Monitoring
- Smart Homes/Buildings
- Smart Education/Transportation
- Smart Agents for Smart Grids
- Data Analytics for Cities
- Cloud Computing for Cities
- Social Computing/Analytics
- IoT for Smart Cities
- Software for Open Smart Cities
- QoS of Smart City Systems
- E-Government Services
- Microservice Architecture
- Connected Smart Objects
- E-Health
- Green Cities
- Open Linked/Semantic/Big Data
- Innovation and Business Models for Knowledge Cities
- Agile Software Methods
- Free and Open Source Software

## Important Dates

### Research and Industrial Papers

Submission September 24, 2017  
Notification to author November 6, 2017  
Camera-ready and author registration November 12, 2017

### Demos

Submission October 15, 2017  
Notification to author October 28, 2017  
Camera-ready and author registration November 8, 2017

### Tutorials

Submission September 15, 2017  
Notification to author September 25, 2017



All submissions must be original and are NOT submitted, published or under consideration anywhere in other conferences/journals.

Submissions must be done electronically via **EDAS** (<https://edas.info/N23933>) by the stated deadlines.

The call for submissions and submission guidelines and policies are available at: <http://2017.amecse-conferences.org/>