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# SCOPE '19

Proceedings of the 2019

**International Science of Smart City Operations and  
Platforms Engineering**

*Sponsored by:*

**ACM**

**Edited by**  
Gowri Sankar Ramachandran (University of Southern California, United States.)  
Jorge Ortiz (Rutgers University, United States.)



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**The Association for Computing Machinery**  
2 Penn Plaza, Suite 701  
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## Message from Organizers

We welcome you to the fourth International Science of Smart City Operations and Platforms Engineering workshop. This is an annual workshop that is co-hosted with the Global City Teams Challenge organized by National Institute of Standards and Technology, USA.

The focus of this workshop is the integrated insights into internet of things, behavioral/social sciences research and data analytics in the performance of urban services, facilities, and infrastructure of smart and connected communities. This is important because communities today are dealing with a number of stresses whose outcomes will ultimately decide the ability to maintain a sustainable and resilient future. This is particularly true of urban environments; their explosive growth is one of the most exciting, yet complex problems of this century. Against this backdrop is the emergence of technologies, both hard and soft, that offer the potential to provide a more intelligent approach to establishing and maintaining livable communities. Smart sensors (e.g., cameras, air quality monitors, geographic positioning) are now embedded in almost every physical device and system we use. This information is being utilized by new modes of networking, algorithms for high-resolution data-driven analysis, and paradigms of distributed computing to perform complex data analytics in support of a safe, secure, efficient, and productive environment.

This year we have a number of excellent research papers from the academia and industrial partners discussing new developments in this area.

We thank the authors for their hard work and contributions and thank the program committee for their dedication and valuable time spent in reviewing the papers. We also thank the workshop committee and the publications chair of CPS-IoT WEEK 2019 for their help in the organization of this workshop.

Looking forward to seeing you all in Montreal.

Prof. Abhishek Dubey, Vanderbilt University

Prof. Sajal Das Missouri Science and Technology

Dr. Sokwoo Rhee National Institute of Standards and Technology

Prof. Keiichi Yasumoto Nara Institute of Science and Technology

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