Workshop on Future Internet Model for Smart City Services

conjunction with *IEEE World Forum on Internet of Things, 05-08 February 2018 – SINGAPORE*

Call For Papers

The Internet today is serving an ever-growing population of users and it is a critical communications infrastructure supporting social economic and welfare. The on-going development in the Smart City is undergoing a paradigm shift at the advent of network virtualization, networked media systems, pervasive computing, cloud computing, the Internet of Things through interconnection of intelligent devices, next generation wireless communication systems and networks, etc.

This workshop aims to bring together researchers from the Information System and Smart City related fields. Together we aim to understand and clarify the role of Future Internet framework for smart city services and their impact on the tomorrow's digital economy.

It is also the aim in this workshop to explore and exchange the knowledge of latest researches on conceptual frameworks, mathematical models, simulation and test-bed of future networks and the evolution of the current Internet architecture to accommodate the demand of future connectivity, services and applications.

The workshop will be held with WF-IoT2018, Singapore. There will be short paper in the recent research work of Smart City. Authors are invited to give a talk on the research perspective and implications of Smart City, not limited to the following issues:

- NovaGenesis Architecture Model
- ICN architecture design and evaluation
- ICN integration with current IP-based services
- Software Define Networks
- Future Internet architectures/design/Model
- Integration of next generation wireless communication systems and networks
- Enabling technologies for the Internets of Things
- Green and environmentally-conscious network design
- End-to-end network virtualization, pervasive and cloud-computing
- Flexible and smart grid networking
- New services for Future Internet
- New approaches to network security, user privacy and trust

Organizing Committee

Dhananjay Singh, |Resense Lab, Hufs, Korea| IEEE IoT Standards| | dsingh@hufs.ac.kr |
Antonio M. Alberti |ICT Lab, National Institute of Telecommunication, Brazil|

Paper Submission Guidelines

All final submission should be written in English with a maximum paper length of six (6), printed pages. See conference webpage for instructions **here** http://wfiot2016.ieee-wf-iot.org/authors/

Technical Program Committee

Dhananjay Singh, Resense Lab, HUFS, Korea
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Madhusudan Singh, Yonsei University, Korea
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Gaurav Triphati, BEL, India
Hoon Jae Lee, Dongseo University, Korea
More TPC members will be added later

Important Dates

Paper submission deadline: August 15, 2017
Acceptance Notification: November 15, 2017
Camera-Ready: December10, 2017

Special Session Keynote

Dr. Madhusudan Singh
IEEE Member
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Keynote: Internet Connected Vehicle Security (ICVs): Perspective, Challenges and Future Trends

Abstract:

the internet connected vehicles are secured through the traditional security mechanism similar as information technology security standards (ISO 27000and family), but a risk of attacks will reach new levels of interoperability, and the independent decision-making will begin to embed complexity, security loopholes and potential "black swan" events. This type of research needs built-in security and architectural design to protect emerging threats. To handle the vehicle communication and computing expertise, envisioned societal impact, government, agencies and vehicle manufacturers had produced international associations devoted exclusively to VANETs. Final goal of ICVs security is to provide a completely secured environment for an intelligent vehicle system for different operating environments. Therefore, we would like to focus more on internet connected vehicles security challenges and their possible solutions for automotive industries, which can support automotive markets for smart and safe driving.

Nowadays, Intelligent vehicles related projects are evolving rapidly and users are shifting from local servers to community data centers. Therefore, automotive markets are desperately in need of solutions that can improve safety of driving, security of vehicles as-well-as need to reduce the cost of ownership of an automobile. In this talk, we discuss about distributed vehicle peer to peer securely communication of Internet connected vehicle's especially on run time situation. We also discussed about the some multiple use cases of internet-connected vehicles. In this talk will discuss about internet connected vehicle security challenges and their possible solutions in future vehicles.

Biography:

Dr. Madhusudan Singh received his Bachelor and Master's degree in computer application from VBS Purvanchal University, Jaunpur in 2003 and UP Technical University, Lucknow, in 2006, respectively. He did his M. Tech degree in IT with specialization in Software Engineering from IIIT-Allahabad, India in 2008 and Ph.D. degree in Ubiquitous IT from Dongseo University, Busan South Korea in Feb. 2012. He worked as a Senior Engineer (R&D) at Samsung Display, Ghieung, South Korea, from March 2012 – March 2016. Since June 2016, he has been a Research Professor, Yonsei Institute of Convergence Technology, Yonsei University Global Campus- Songdo (Smart City), Incheon, South Korea. He is the author of more than 40 research papers and 15 patents. His research interest in the field of Automotive Cyber Security, Intelligent Vehicles, Blockchain Technology, Artificial Intelligence, Wireless Communication, Network Security and Internet of Things.