

IEEE Communications Society (ComSoc) Ad Hoc & Sensor Networks Technical Committee (AHSN TC)

AHSN TC Meeting at IEEE ICC 2016, Kuala Lumpur, Malaysia

Chair: Jalel Ben Othman

Vice Chair: Cheng Li

Secretary: Soumaya Cherkaoui

Tuesday May 24th 2016, 7:30 am - 9:00am

Mandarin Hotel, Topaz Room

Meeting Agenda

- Welcome and introduction
- Approval of the agenda
- Approval of the minutes of the GC'16 AHSN TC meeting
- Business arising from the minutes
- AHSN TC 2016 outstanding service recognition award
- AHSN TC newsletters
- Standard Liaison Report
- Update on AHSN TC activities on conferences/symposia
- Other business
- Next AHSN TC meeting
- Meeting adjourn

The AHSN Technical Committee (TC) Outstanding Service and Leadership Recognition Award

The AHSN TC Outstanding Service and Leadership Recognition Award aims to recognize members of the AHSN TC who have demonstrated significant contributions to promote the AHSN TC activities and achieved an outstanding record of service to the community.

Outstanding Service Recognition Award Selection Committee:

- **(Chair)** Jalel Ben-Othman, University of Paris , Current TC Chair
- Dr. Azzedine Boukerche, University of Ottawa, Past TC Chair
- Dr. Cheng Li, Memorial University, TC Vice Chair
- Dr. Soumaya Cherkaoui, Sherbrooke University, TC Secretary

**The IEEE Communications Society
Ad Hoc and Sensor Networks (AHSN)
Technical Committee**

Outstanding Service Recognition Award

Presented to

Dr. Nei Kato

Tohoku University, Japan

For outstanding achievements, exemplary leadership and
dedicated services to the ad hoc and sensor networking
research community

TC Newsletter Editorial Board

- Editor-in Chief
 - Yacine Ghamri-Doudane, University of La Rochelle, France
- Co-Editor-in Chief
 - Sidi-Mohammed Senouci, University of Burgundy, France
- Co-Editors
 - Mohamed Fathy Feteiha, Queen's University, Canada
 - Burak Kantarci, University of Ottawa, Canada
 - Damla Turgut, University of Central Florida, U.S.A.

TC Newsletter Update

- TC Newsletter Update
 - Dr. Sidi-Mohammed Senouci, France
 - Yacine Ghamri-Doudane, University of La Rochelle, France
- Aim to have two issues per year from 2015
- 2015 Newsletter Article (GC'15)
 - Title: Platform for Smart Car-to-Car Communication“
 - Authors: Tarek Bouali (Univ. Bourgogne Franche Comté, FR), Sidi Mohammed Senouci (Univ. Bourgogne Franche Comté, FR), Michele Albano (Polytechnic Institute of Porto, PT), Arthur Lallet (Airbus D&S, FR), Farid Benbadis (Thales CS, FR)
 - About a successfully achieved collaborative project, the CarCoDe project
- Link to different issues of the newsletter to be moved to the TC web portal: http://pageperso.univ-lr.fr/yacine.ghamri/AHSNTC_NL/
- Next 2016 Newsletter Articles (GC'16)
 - Contributions from TC members are more than welcome
 - Target: 2 articles.

TC Newsletter Update

Ah Hoc and Sensor Networks Technical Committee Newsletter (AHSN TCN)

NEWS RELATED TO AHSN TC

Platform for Smart Car-to-Car Communication

Tarek Bouali*, Sidi Mohammed Senouci*, Michele Albanos, Arthur Lallett, Farid Benbadis#

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Abstract

Modern vehicles are like a four-wheels computer which maintenance requires more computer skills than use of hammers, screwdrivers and spanners. Vehicles are aware of not only their operational state but also their surroundings through sensors, radars and GPS capabilities. The newest trend is to allow vehicles to exchange information thus making them networking. Therefore, the need for software-intensive in-vehicle applications and services is obvious. CarCoDe European project is the ICT experts' response to develop a software platform for automotive domain, which evokes the generation of the traffic service domain ecosystem. The project, mainly, aims to build cross-platform software enablers to support development of cooperative in-vehicle services. Therefore, cooperation between various tools (automotive sensors and software systems) should be established to allow third party developers generate new innovative applications. In this brief article, we provide the main CarCoDe goals, depict its architecture and highlight potential achievements and realizations.

1. Introduction

Car-to-car (C2C) and car-to-infrastructure (C2I) communication and its support systems have progressed slowly both in standardization and in the automotive industry. Meanwhile, more and more electronic devices and systems have been brought to vehicles, especially in the professional sector, e.g. to taxis, trucks, excavators, or forest harvesters and forwarders. A common wireless band for IEEE802.11p/WAVE [1] systems was reserved recently both in Europe and in the U.S. but we still may need to wait for years before its deployment really begins. Currently, there is room for research and new innovation as none of the proposed approaches to C2C or C2I have reached wide acceptance or strong role in the market. The wireless communication of on-board vehicle systems and roadside stations may be based on alternative technologies. Currently, IEEE 802.11p has strong public support for the short range while cellular systems 4G and LTE [2] are potential long-range solutions. Of these, LTE may get a stronger role soon and it could replace all others. Anyway, for offering appropriate user experience, on-board systems in vehicles should utilize different radio systems efficiently and seamlessly.

For the potential applications of the European project CarCoDe (2013-2015) the field is also quite open: the proliferation of electronics in automobiles has produced a huge volume of sensor data within the context of internal and external vehicle communication. The in-vehicle computing capability increase in storage and processing can be exploited to offer interfaces for

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Standards Liaison Report

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Some Activities

- AHNTC is one of the most active TCs in IEEE ComSoc Standards Development (SDB) Board.
- AHSNTC liaison is also member of SPDB.
- AHNTC liaison provides comments and suggestions on various activities including the commission of new standards projects.
- Liaison participates in the discussions regarding new PARs and standards that interesting to AHSNTC.
- AHNTC has been a vocal proponent for involving TCs actively in IEEE SDB/SPDB.
- AHNTC presence in IEEE SPDB has a long lasting impact on future communication technologies.

Important Related Activities

ComSoc Rapid Reaction Standardization-5G

ComSoc Group - 5G Standardization Activities.
By invitation of Standards Activities Council

Research Group of IoT Services

RG Chair-Yacine Ghamri-Doudane.
Membership: IoT Services RG, CSPDB,
ComSoc SA Council, Supporting Staff.

Research Group on IoT Architectures

RG Chair-JaeSeung Song. Membership: IoT
Architectures RG, CSPDB, ComSoc SA
Council, Supporting Staff.

Research Group on IoT Communications and
Networking Infrastructure

RG Chair-Stefano Giordano. Membership: IoT
Communications and Networking
Infrastructure RG, CSPDB, ComSoc SA
Council, Supporting Staff.

Important Related Activities (Cont'd)

Research Group on SDN/NFV - Structured Abstractions

CSPDB Research Group on SDN/NFV - Structured Abstractions, Chair Ken Kerpez

RG on Software Defined and Virtualized Wireless Access

Standardization Research Group on Software Defined and Virtualized Wireless Access

Cloud Communications and Networking (new)

Emerging Technical Subcommittee on Cloud Communications and Networking

Please join these groups on:
<http://community.comsoc.org/groups>

TC Activities on Conferences/Symposia

- GC/ICC Technical Symposia that AHSN TC Sponsors
 - Ah Hoc and Sensor Networks Symposium
 - Mobile and Wireless Networking Symposium
 - Wireless Communications Symposium
 - Cognitive Radio and Networks Symposium
 - Next Generation Networking Symposium
- ICC'16, Kuala Lumpur, Malaysia, June 2016
- GC'16, Washington DC, USA, December 4-6, 2016
- SECON'16, Seattle, USA, June, 2016
- ICC'17, Paris, France, May 21-25, 2017
- GC'17, Singapore, December, 2017
- WCNC'17, San Francisco, 19-22 March 2017

ICC'2016, Kuala Lumpur, Malaysia

◆ Executive Co-Chairs

◆ Hikmet Sari, Supelec, France

◆ Borhanuddin Mohd Ali, Universiti Putra Malaysia

◆ Technical Program Co-Chairs

◆ Stefano Bregni, Politecnico di Milano, Italy

◆ Nelson Fonseca, State University of Campinas, Brazil

◆ Technical Program Vice Chair

◆ Jiang Linda Xie, University of North Carolina at Charlotte, USA

◆ Time and Venue

◆ June 2016, Kuala Lumpur, Malaysia

Ad Hoc and Sensor Networks Symposium ICC'2016, Kuala Lumpur, Malaysia

◆ Co-Chairs

- Abdelhakim Hafid, University of Montreal, Canada
- Cheng Li, Memorial University of Newfoundland, Canada
- Pascal Lorenz, University of Haute-Alsace, France

◆ Sponsoring committees

- Technical Committee on Ad Hoc and Sensor Networks (AHSN)
- Technical Committee on Wireless Communications (WC)
- Technical Committee on Information Infrastructure (TCII)

▪ Statistics

- paper submissions: 175
- TPC members: 368
- Accepted papers: 71
- Acceptance ratio: 40%

Mobile and Wireless Networking Symposium ICC'2016, Kuala Lumpur, Malaysia

◆ Co-Chairs

- Adlen Ksentini, University of Rennes, France
- Mohammed Atiquzzaman, University of Oklahoma, USA
- **Jalel Ben-Othman, University of Paris 13, France**

◆ Sponsoring committees

- Technical Committee on Wireless Communications (WC)
- Technical Committee on Ad Hoc and Sensor Networks (AHSN)
- + others

▪ Statistics

- Number of submissions: **250**
- Number of TPC members: **446**
- Number of accepted papers: **99**
- Acceptance rate: **39.6%**

Cognitive Radio and Networks Symposium ICC'2016, Kuala Lumpur, Malaysia

◆ Co-Chairs

- ◆ Norman C. Beaulieu, University of Alberta, Canada
- ◆ **Linyang Song, Peking University, China**

• Sponsoring committees

- Technical Committee on Wireless Communications (WC)
- Technical Committee on Ad Hoc and Sensor Networks (AHSN)
- Cognitive Radio Networks

■ Statistics

- Number of submissions: **116**
- Number of TPC members: **137**
- Number of accepted papers: **46**
- Acceptance rate: **40%**

Wireless Communications Symposium ICC'2016, Kuala Lumpur, Malaysia

◆ Co-Chairs

- ◆ Xiaohu Ge, Huazong University of Science and Technology, China
- ◆ Dimitrie Popescu, Old Dominion University, USA
- ◆ **Hossam Hassanein, Queen's University, Canada**
- ◆ Rui Zhang, National University of Singapore

◆ Sponsoring committees

- Technical Committee on Wireless Communications (WC)
- Technical Committee on Ad Hoc and Sensor Networks (AHSN)
- Plus Others

■ Statistics

- Number of submissions: **495**
- Number of TPC members: **331**
- Number of accepted papers: **195**
- Acceptance rate: **39.39%**

Next Generation Networking Symposium ICC'2016, Kuala Lumpur, Malaysia

◆ Co-Chairs

- ◆ Rami Langar, University of Paris 6, France
- ◆ **Shiwen Mao, Auburn University, USA**
- ◆ Abdelhamid Mellouk, University of Paris-Est, France

◆ Sponsoring committees

- Technical Committee on Wireless Communications (WC)
- Technical Committee on Ad Hoc and Sensor Networks (AHSN)
- Cognitive Radio Networks

■ Statistics

- Number of submissions: **253**
- Number of TPC members: **203**
- Number of accepted papers: **117**
- Acceptance rate: **46%**

GC'2016, Washington, DC, USA

◆ **Executive Co-Chair**

- ◆ Paul Cotaе, Professor of Electrical and Computer Engineering at the University of the District of Columbia.

◆ **Executive Co-Chair**

- ◆ Jerry Gibbon

◆ **Technical Program Chairs**

- ◆ Sherman Shen, University of Waterloo

◆ **Technical Program Vice-Chairs**

- ◆ Maite Brandt-Pearce, University of Virginia
- ◆ Sennur Ulukus, University of Maryland

◆ **Time and Venue**

- ◆ December 4-6, 2016, Hilton Conference Centre, Washington DC, USA

Ad Hoc and Sensor Networks Symposium GC'2016, Washington, DC, USA

◆ Co-Chairs

- Cheng Li, Memorial University of Newfoundland
- Amr Mohamed, Qatar University
- Cailian Chen, Shanghai Jiaotong University, China
- Mainak Chatterjee, University of Central Florida

◆ Sponsoring committees

- Technical Committee on Ad Hoc and Sensor Networks (AHSN)
- Technical Committee on Wireless Communications (WC)
- Technical Committee on Information Infrastructure (TCII)

▪ Statistics

- paper submissions: 174
- TPC members: 294
- Accepted papers: TBD

Mobile and Wireless Networks Symposium GC'2016, Washington, DC, USA

◆ Co-Chairs

- Jalel Ben-Othman, University of Paris
- Shucheng-Yu, University of Arkansas at Little Rock
- Mianxiong Dong, Muroran Institute of Technology
- Bechir Hamdaoui, Oregon State U.

◆ Sponsoring committees

- Technical Committee on Wireless Communications (WC)
- Technical Committee on Ad Hoc and Sensor Networks (AHSN)
- + others

▪ Statistics

- paper submissions: 301
- TPC members: 462
- Accepted papers: TBD

Cognitive Wireless Networks Symposium GC'2016, Washington, DC, USA

◆ Co-Chairs

- ◆ Lingyang Song, Peking University
- ◆ Hyundong Shin, Kyung Hee University
- ◆ Kit Wong, University College London

• Sponsoring committees

- Technical Committee on Wireless Communications (WC)
- Technical Committee on Ad Hoc and Sensor Networks (AHSN)
- Cognitive Radio Networks

■ Statistics

- paper submissions: 143
- TPC members: 96
- Accepted papers: TBD

Wireless Communications Symposium GC'2016, Washington, DC, USA

◆ Co-Chairs

- ◆ Yiqing Zhou, Chinese Academy of Science,
- ◆ Michail Matthaiou, Queen's University Belfast
- ◆ Shaodan Ma, University of Macau
- ◆ Nader Alagha, European Space Agency

- ◆ Veronique Veque, Supelec, Paris

◆ Sponsoring committees

- Technical Committee on Wireless Communications (WC)
- Technical Committee on Ad Hoc and Sensor Networks (AHSN)
- Plus Others

■ Statistics

- Paper submissions: 454
- TPC members: 360
- Accepted papers: TBD

Next Generation Networks Symposium GC'2016, Washington, DC, USA

◆ Co-Chairs

- ◆ Roberto Rojas-Cessa, New Jersey Institute of Technology
- ◆ Periklis Chatzimisios, Alexander Technological Educational Institute of Thessaloniki
- ◆ Xiaojun (Matt) Cao, Georgia State University

◆ Sponsoring committees

- Technical Committee on Wireless Communications (WC)
- Technical Committee on Ad Hoc and Sensor Networks (AHSN)
- Cognitive Radio Networks

■ Statistics

- Number of submissions: 156
- Number of TPC members: 117
- Number of accepted papers: TBD

ICC 2017, Paris

- ◆ **Executive Co-Chair**

- ◆ Hikmet Sari, CentraleSupélec, France

- ◆ **Technical Program Co-Chairs**

- ◆ Merouane Debbah, Huawei, France

- ◆ David Gesbert, EURECOM, France

- ◆ **Technical Program Symposia Chair**

- ◆ Abdelhamid Mellouk, University of Paris-Est Creteil VdM (UPEC), France

- ◆ **Time and Venue**

- ◆ May 21-25, 2017, Palais des Congrès - Porte Maillot, Paris, France

ICC 2017, Paris

◆ Ad-Hoc and Sensor Networking

- ◆ Shibo He, Zhejiang University, China
- ◆ Adlen Ksentini, University of Rennes, France
- ◆ Cheng Li, Memorial University of Newfoundland, Canada

◆ Wireless Communications

- ◆ Mohamad Assaad, CentraleSupélec, France
- ◆ Azzedine Boukerche, University of Ottawa, Canada
- ◆ Davide Dardari, University of Bologna, Italy
- ◆ Hämäläinen Jyri, Aalto University, Finland
- ◆ Yahong Rosa Zheng, Missouri University of Science and Technology, USA

◆ Cognitive Radio and Networks

- ◆ Oliver Holland, King's College London, UK
- ◆ Walid Saad, Virginia Tech, USA

ICC 2017, Paris

- ◆ Next Generation Networking and Internet
 - ◆ Shiwen Mao, Auburn University, USA
 - ◆ Mahesh K. Marina, University of Edinburgh, UK
 - ◆ Sidi-Mohammed Senouci, University of Bourgogne, FranceWireless Communications

- ◆ Mobile and Wireless Networking
 - ◆ Mohammed Atiquzzaman, University of Oklahoma, USA
 - ◆ Mehdi Bennis, University of Oulu, Finland
 - ◆ Jalel Ben-Othman, University of Paris 13, France
 - ◆ Shaowei Wang, Nanjing University, China

GC'17, Singapore, December 2017

- GC' 16, Washington DC, USA, December 4-9, 2016
 - Symposium Chair Recommendation from the AHSN TC
 - Adhoc and Sensor Networking Symposium
Prof. Cheng Li, Memorial University of Newfoundland, Canada
 - Next Generation Networking Symposium
Prof. Pascal Lorenz, University of Haute-Alsace, France
 - Mobile and Wireless Networking
Prof. Jalel BEN-OTHMAN, University of Paris 13, France
 - Wireless Communications Symposium
Prof. Hossam Hassanein, Queen's University, Canada
 - Cognitive Radio and Networks
Prof. Lingyang song, Peking University, China

IEEE International Conference on Sensing, Communication, and Networking (SECON'2016)

◆ General Chair

- ◆ Suresh Singh, Portland State University, singh@cs.pdx.edu

◆ TPC Co-Chairs

- ◆ Sharad Agarwal, Microsoft Research, Sharad.Agarwal@microsoft.com
- ◆ Song Chong, KAIST, songchong@kaist.edu

◆ Technical Program Vice Chair for Information Systems

- ◆ Kyunghan Lee, UNIST, khlee@unist.ac.kr

◆ Time and Venue

- ◆ Time: June 2016
- ◆ Venue: Seattle, USA

IEEE Wireless Communications and Networking Conference (WCNC'2017)

◆ General Chair

- ◆ Andrea Goldsmith, Stanford University
- ◆ Katie Wilson, Santa Clara University

◆ Technical Program Chair

- ◆ Shugang Cui, Texas A&M University
- ◆ Elza Erkip, New York University
- ◆ Angel Lozano, Universitat Pompeu Fabra

◆ Time and Venue

- ◆ Time: March 19 – 22, 2017
- ◆ Venue: San Francisco, CA (USA)

Other Businesses

- 2016 AHSN TC Technical Recognition Award (July 16)
- Future GC/ICC Technical Program Committee Activities
- IEEE Distinguished Lecturers (DLT)
- IEEE Fellow / Senior Member Promotion

Next AHSN TC Meeting

- Next AHSN TC meeting at GC'16, Washington DC, USA, December 2015.
- See you then.

Thank You!

Officer Contact Information

Chair

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