

IEEE Communications Society Technical Committee on Signal Processing and Communications Electronics Technical Committee (SPCE)

NEWSLETTER

Issue 2 – November 2017

Dear Signal Processing and Communications Electronics colleagues:

Welcome to the second issue of the SPCE Technical Committee Newsletter. It is conceived as a way to share important information for the members of the committee and to have some brief contact approximately every six months. We would like it to be a useful communication tool so it will be brief and at the same time open for everybody to contribute.

Please feel free to send us any piece of news that you believe can be of interest for our community.

Kindest regards,

Ana Garcia Armada

anagar@ing.uc3m.es

SPCE TC Newsletter Editor

1. Contact information

The Officers of the SPCE TC are:

Chair:

Octavia A. Dobre
Memorial University, Canada

Vice Chair:

Xianbin Wang
Western University

Secretary:

Jingxian Wu
University of Arkansas

Standards Liaison:

George C. Alexandropoulos
Huawei Technologies France

Newsletter Editor:

Ana Garcia Armada
University Carlos III of Madrid, Spain

Student Competition Representative:

Sinem Coleri Ergen
Koc Univeristy, Turkey

Please refer to our web page for further information:

<http://spce.committees.comsoc.org/officers/>

How to join SPCE Committee and mailing list

Membership on the IEEE SPCE TC is open to all members of the IEEE Communications Society who share an interest in signal processing in communications.

To join the SPCE, you simply subscribe to the SPCE mailing list by using the following link:

<https://comsoc-listserv.ieee.org/cgi-bin/wa?SUBED1=spce&A=1>

2. Message from the Chair

Dear Colleagues,

It is almost the end of 2017, and we are happy to report the rich activity of our SPCE Technical Committee for 2017: from starting the newsletter, to supporting various conferences in our areas, to organizing journal special issues and special sessions at conferences, to supporting our members for the DL program and fellow nominations, our community has been growing and having an increased impact.

We are looking forward to seeing you at the SPCE meeting at Globecom 2017, which will take place on Tuesday 7 December, 12:00-13:30, room 4A/4B of Marina Bay Sands Expo and Convention Centre, Singapore.

Have a great end of the year and a New Year to come.

With kind regards,

Octavia Dobre

3. Committee meetings

Last SPCE TC meeting was held at IEEE ICC in Paris, France, on December 23 May 2017. The minutes are available here:

<http://spce.committees.comsoc.org/meeting-reports/icc-17/>

Next SPEC TC meeting will be held at IEEE Globecom in Singapore on Tuesday 7 December, 12:00-13:30, (Marina Bay Sands Expo and Convention Centre, room 4A/4B), with the following agenda:

- Welcome & Introduction
- Approval of Meeting Minutes from ICC 2017
- Technical Program Committee Reports
- SIG Activity Reports
- SPCE TC Newsletter
- IEEE ComSoc Student Competition
- DL Program

- SPCE Awards: P&Ps
- 2017 SPCE Award Presentation
- Any Other Business

4. Committee awards

The following two awards are granted on a yearly basis by the SPCE TC:

IEEE SPCE Technical Recognition Award

To recognize and encourage continuous and outstanding services to the technical activities sponsored and endorsed by the SPCE Technical Committee.

IEEE SPCE Outstanding Service Award

The award recognizes members of the IEEE Communications Society who have made outstanding contributions to the technological advancement of signal processing for communications.

Please find additional information here:

<http://spce.committees.comsoc.org/awards/awards-by-laws-procedures/>

and the list of past recipients:

<http://spce.committees.comsoc.org/awards/awards-by-laws-procedures/>

5. Conferences

Flagship conferences

- Next IEEE Globecom will be held in Singapore, 4-8 December 2017

<http://globecom2017.ieee-globecom.org/>

SPCE sponsors this conference and appointed the following representatives:

Xianbin Wang (Signal Processing for Communications Co-Chair)

Wei Chen (Communication Theory Co-chair)

For the Signal Processing for Communications (SPC) symposium at Globecom 2017, 163 papers were submitted and reviewed by 198 TPC members. 63 papers have been accepted (38%) and distributed in 10 oral sessions and 3 interactive sessions.

For the Communication Theory (TC) symposium at Globecom 2017, 179 papers were submitted and reviewed by 127 TPC members. 66 papers have been accepted (36.8%) and distributed in 10 oral sessions and 2 interactive sessions.

- Next IEEE ICC will be held in Kansas City, 20-24 May 2018.

<http://icc2018.ieee-icc.org/>

SPCE sponsors this conference and appointed the following representatives:

Takahiko Saba (Signal Processing for Communications Co-Chair)

Yonghui Li (Communication Theory Co-chair)

For the Signal Processing for Communications (SPC) symposium at ICC 2018, 142 papers have been submitted and are being reviewed by 440 TPC members.

For the Communication Theory (TC) symposium at ICC 2018, 113 papers have been submitted and are being reviewed by 132 TPC members.

Other related conferences/special issues

SPCE sponsors the following conferences:

- 11th International Conference on Signal Processing and Communication Systems, ICSPCS 2017 (Surfers Paradise, Australia, December 2017)

SPCE representatives: Tad Wysocki, Octavia A. Dobre, Lajos Hanzo, Joao Paulo da Costa

http://www.dspcs-witsp.com/icspcs_2017/index.html

- International Conference on Computing, Networking and Communications, ICNC 2018 (Maui, Hawaii, March 2018)

SPCE representatives: Yahia Eldemerdash, Haijun Zhang, Francesco Verde

<http://www.conf-icnc.org/2018/>

- Wireless Telecommunications Symposium (WT 2018) (Phoenix, Arizona, USA, April 2018)

SPCE representatives:

- Dr. Guan Gui, Nanjing Post and Telecom, China
- Quoc-Tuan Vien, Middlesex University, UK, q.vien@mdx.ac.uk
- Mohammadali Mohammadi, Iran, mohammadalimoh@gmail.com

<http://www.cpp.edu/~wtsi/index.html>

- 25th International Conference on Telecommunication (ICT 2018) (Saint-Malo, France, June 2018)

SPCE representatives:

- Octavia Dobre, Memorial University of Newfoundland, Canada, email: odobre@mun.ca
- Ana Garcia Armada, Universidad Carlos III de Madrid, Spain; email: anagar@ing.uc3m.es
- Markku Juntti, University of Oulu, Finland, email: markku.juntti@oulu.fi

<http://ict-2018.org/>

6. Standardization activities

SPCE TC welcomes its members to become part of the IEEE standard activities. It also welcomes all volunteers from standardization groups to participate to the SPCE TC activities.

Updates on the three Technical Specification Groups (TSG) and their Working Groups (WGs) in [3rd Generation Partnership Project \(3GPP\)](#) are available online:

- [Radio Access Networks \(RAN\)](#): Next meeting information and previous meeting reports and documents are available [here](#).
- [Services & Systems Aspects \(SA\)](#): Next meeting information and previous meeting reports and documents are available [here](#).
- [Core Network & Terminals \(CT\)](#): Next meeting information and previous meeting reports and documents are available [here](#).

IEEE Virtual Reality and Augmented Reality Working Group:

- [IEEE P2048.1™ - Device Taxonomy and Definitions](#)
- [IEEE P2048.2™ - Immersive Video Taxonomy and Quality Metrics](#)
- [IEEE P2048.3™ - Immersive Video File and Stream Formats](#)
- [IEEE P2048.4™ - Person Identity](#)
- [IEEE P2048.5™ - Environment Safety](#)

IEEE DySPAN Standards Committee (DySPAN-SC):

IEEE 1900.1 Working group: <http://grouper.ieee.org/groups/dyspan/1/index.htm>

New in this group - Call for Interest in Participation in IEEE 1900.1 Revision
SPCE representatives: G. Giunta, F. Benedetto, and M. Mayor.

IEEE 1900.4 Working group: <http://grouper.ieee.org/groups/dyspan/4/index.htm>

IEEE 1900.5 Working group: <http://grouper.ieee.org/groups/dyspan/5/index.htm>

IEEE 1900.6 Working group: <http://grouper.ieee.org/groups/dyspan/6/index.htm>

IEEE 1900.7 Working group: <http://grouper.ieee.org/groups/dyspan/7/index.htm>

SPCE representative: Muhammad Z. Shakir

IEEE 802 Standard:

IEEE 802.1 Working group: <http://grouper.ieee.org/groups/802/1/index.html>

IEEE 802.2 Working group: <http://grouper.ieee.org/groups/802/2/index.html>

IEEE 802.3 Working group: <http://grouper.ieee.org/groups/802/3/index.html>

IEEE 802.5 Working group: <http://www.ieee802.org/5/www8025org/>

IEEE 802.11 Working group: <http://grouper.ieee.org/groups/802/11/index.html>

IEEE 802.12 Working group: <http://grouper.ieee.org/groups/802/12/index.html>

IEEE 802.15 Working group: <http://grouper.ieee.org/groups/802/15/>

IEEE 802.16 Working group: <http://grouper.ieee.org/groups/802/16/index.html>

IEEE 802.17 Working group: <http://grouper.ieee.org/groups/802/17/>

IEEE 802.18 Working group: <http://grouper.ieee.org/groups/802/18/>

IEEE 802.19 Working group: <http://grouper.ieee.org/groups/802/19/>

IEEE 802.20 Working group: <http://grouper.ieee.org/groups/802/20/>

IEEE 802.21 Working group: <http://www.ieee802.org/21/index.html>

IEEE 802.22 Working group: <http://www.ieee802.org/22/>

[Latest IEEE-SA Standards Board Approvals](#)

[IEEE-SA Newswire September 2017 Issue](#)

Special Interest Groups activities

SIG on Signal processing techniques in 5G communication systems

The SIG has prepared the following special issues (SI):

- IEEE JSAC special issue on “Millimeter Wave”, June and July of 2017
- IEEE Transactions on Multimedia, Special Issue on “Video over Future Networks: Emerging Technologies, Infrastructures, and Applications”, October 2017.
- IEEE Wireless Communications, special issue on “NOMA”, to appear.
- IEEE Access Journal, Special Issue on “Cooperative and Intelligent Sensing”, to appear.
- IEEE Access, special issue on “The Internet of Energy: Architectures, Cyber Security, and Applications”.
- IEEE Wireless Communications Magazine, special issue on “Wireless Big Data: Technologies and Applications”.
- IEEE Access, special issue on “Deployment and Management of Small Heterogeneous Cells for 5G”.

They have also played a key role in several IEEE conferences.

SIG on Signal processing techniques for Big Data in Wireless Networks

The SIG has prepared special issues in JSAC, IEEE Access, EURASIP WIN, etc.

They have also played a key role in several IEEE conferences, workshops and special sessions: Globecom, ICC, WCNC, GlobeSIP, etc. The GC’16 Workshop on Big Data and Wireless Networks (BDWN) was held on Sunday, December 4, 2016 with 6 accepted papers: 6 papers (acceptance rate of 50%).

More information about the SIGs may be found in our web page:

<http://spce.committees.comsoc.org/special-interest-groups/>