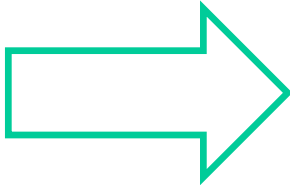

SIG on “Energy-Harvesting Cognitive Radio Networks”

Presentation at ICC 2018

Outline

- Introduction
- Chair, Vice-Chairs, and Senior Advisors
- Founding Members
- Plan of Activities for the First 24 Months
- Current Activities
- Next Activities

Introduction

- This SIG was created at the beginning of this year (2018).
 - Cognitive Radio + Energy Harvesting:
 - Cognitive Radio:
 - Spectrum scarcity
 - Energy Harvesting:
 - Energy efficiency
- 
- Spectrum and energy-efficient communications systems*
- This SIG aims to sponsor and promote technical publications, workshops, tutorials, journal special issues, student activities, and other related activities in the areas relevant to energy-harvesting cognitive radio networks (EHCRNs).

Team

Chair:

- Daniel Benevides da Costa, Federal University of Ceará (UFC), Brazil.

Vice-Chairs:

- Octavia Dobre, Memorial University, Canada
- Trung Q. Duong, Queen's University Belfast, UK
- Minghua Xia, Sun Yat-sen University, China
- Phee Lep Yeoh, University of Sydney, Australia

Senior Advisors:

- Mohamed Slim-Alouini, KAUST, Saudi Arabia
- George K. Karagiannidis, Aristotle University of Thessaloniki, Greece
- Arumugam Nallanathan, Queen Mary University of London, UK

Founding Members

Founding Members:

- Prabhat K. Upadhyay, India Institute of Technology (IIT) Indore, India.
- Georges Kaddoum, École de Technologie Supérieure (ETS), Canada
- Nan Yang, Australia National University, Australia
- Jules Moualeu, University of the Witwatersrand, South Africa
- Marco Di Renzo, CNRS, France
- Alexandros-Apostolos A. Boulogeorgos, Aristotle University of Thessaloniki, Greece
- Haiyang Ding, Xidian University, China
- Ugo Silva Dias, University of Brasília, Brazil
- Zhiguo Ding, Lancaster University, UK
- Petros Bithas, University of Pirineus, Greece
- Athanasios G. Kanatas, University of Pirineus, Greece
- Mustapha Benjillali, INPT, Morocco

Plan of Activities

Plan of Activities – First 24 Months:

- Propose workshops and special sessions in flagship IEEE conferences (PIMRC, ICC, GLOBECOM).
- Propose Special Issues in IEEE Access and IEEE Transactions on Cognitive Communications and Networking.
- Organize regular meetings during special sessions at related conferences.
- Promote invited talks in workshops, special sessions, and/or regular meetings from renowned researches.

Current Activities

1) Special Issue on “Energy-Harvesting Cognitive Radio Networks”

- IEEE Transactions on Cognitive Communications and Networking
- Guest Editors:
 - Daniel Benevides da Costa (Lead)
 - George G. Karagiannidis
 - Haiyang Ding
 - Minghua Xia
 - Octavia Dobre
 - Prabhat K. Upadhyay
 - Robert Schober

- Important Dates:

Manuscript Due: August 30, 2018

Acceptance Notification: November 30, 2018

Final Manuscript Due: January 30, 2019

Expected Publication: First Semester, 2019

2) IEEE PIMRC 2018: 1st Workshop on Energy Harvesting Communication Networks

- Workshop Organizers:
 - Daniel Benevides da Costa (Lead)
 - Himal A. Suraweera
 - Derrick Wing Kwan Ng
 - Minghua Xia
 - Prabhat K. Upadhyay
 - Haiyang Ding
 - Bruno Clerckx

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- Keynote Speakers (Confirmed):
Kaibin Huang, University of Hong Kong
Robert Schober, Friedrich Alexander University, Germany
 - Important Dates:
Paper Submission: May 18, 2018
Acceptance Notification: June 15, 2018
Final Paper Due: June 29, 2018
Workshop Date: September 9, 2018 – 14:00-17:00

Next Activities

- Propose a Special Issue in IEEE Access (first semester of 2019)
- Propose the 2nd Workshop on “Energy Harvesting Communication Networks” in IEEE PIMRC 2019.
- Propose a Special Session in IEEE ICC 2019.

*Thank you for your
attention!!*