

IEEE CCNC 2015 Special Session Proposal

ICT for a smart and sustainable world: converging research initiatives

Information and communication technologies (ICT) are increasingly recognized in the 21st century as one of the key drivers of sustainability. Driven by economic imperatives, the ICT industry has been developing and integrating new infrastructure paradigms (5G, clouds, etc.) while at the same time developing a myriad of applications in various vertical markets, all of which also bring a huge potential for environmental as well as societal benefits. This emerging omnipresence of ICT in all sectors of human activity is thus bringing about a convergence of targeted technology research initiatives into broader, multidisciplinary endeavors.

This special session is thus inviting contributions describing multidisciplinary research activity and results that can be based on, but not limited to, two or more of the following themes:

- Telco clouds and software defined networking;
- Big data and analytics;
- ICT in the energy sector: smart grid infrastructure and applications ;
- ICT in the health-care sector;
- ICT in the transportation sector;
- ICT in the education sector;
- Energy efficiency in ICT and “by ICT”;
- Carbon emission mitigation in ICT and “by ICT”;
- Cyber-security and privacy challenges;
- Social networking applications for sustainability.

Organizer: Charles Despins, Prompt inc., Canada

Technical program committee (tentative):

Steven Collier, Milsoft inc., USA

Charles Despins, Prompt inc., Canada

San Murugesan, University of Western Sydney, Australia

Joachim Taiber, Clemson University, USA