



IEEE IDAACS-SWS 2018

4th IEEE International Symposium on Wireless Systems

within the
INTERNATIONAL CONFERENCES ON
INTELLIGENT DATA ACQUISITION AND ADVANCED COMPUTING
SYSTEMS

September 20 - 21, 2018

Lviv Polytechnic National University, Lviv, Ukraine

<http://www.idaacs.net/2018>

ORGANIZED BY



Lviv Polytechnic National University



University of Applied Sciences



Research Institute for Computer
Intelligent Systems

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OPEN TO THE WORLD



GENERAL INFORMATION

The Symposium explores wireless systems and their applications. The aim of the Symposia is to exchange experience and enhance global collaboration. In particular papers in the fields of IoT, 5G and novel Wireless Technologies will be welcomed. The Symposium is organized within the IDAACS conference (www.idaacs.net). Success of special streams led to their promotions to symposia, which were held in Offenburg, Germany, in 2012, 2014 and, 2016. Papers published in previous IDAACS-SWS symposiums were published in IEEE Xplore, Web of Science – Conference Proceedings Citation Index- Science (CPCI-S) and Scopus. Lviv is one of largest IT and tourist centers (visited by 2.5 million of tourists in 2016) in Eastern Europe. Therefore, we hope the Symposium will be interesting and successful.

Wireless Radio Technologies

- modulation, coding, diversity
- information-theoretic aspects of wireless communications
- interference characterization and avoidance
- cognitive radio, multi user detection
- ultra-wide bandwidth communication
- wireless MAC protocols: design, capacity and analysis;
- security and safety with wireless systems
- wireless multicasting & routing
- localization for wireless networks
- antenna design and simulation
- ultra low power designs, incl. energy harvesting
- analytical, simulation, or experimental systems
- test-bed and prototype implementation for wireless
- commissioning, analyzing and monitoring of distributed wireless networks
- regulations & spectrum management
- standardization & harmonization
- RFID & NFC

- new development for LTE, 5G, NB-IOT IEEE802.15.4 & ZigBee
- DECT & DECT ULE
- IPv6 for Wireless, 6LoWPAN
- Bluetooth
- narrowband long range technologies, like SigFox, Weightless, LoRa, LoRaWAN

Wireless Network Architectures

- proxies and middleware for wireless networks
- service oriented architectures, service portability
- QoS support, middleware
- innovative user interfaces, peer-to-peer services for multimedia
- dynamic services, autonomic services
- AAA, application-oriented network management
- monitoring, intrusion detection and intrusion prevention
- personalization, service discovery, profiles and profiling

Advanced IoT Applications and Services

- emerging wireless/mobile applications
- multimedia & SIP based service

- context and location-aware wireless services and applications
- wireless for telemedicine, and e-health services
- wireless for intelligent transportation systems (ITS), including Car-2-Car- and Car-2-X-communication
- wireless for smart meter and smart grid applications
- wireless for smart home and smart building applications
- integration of sensor-actuator-networks into Cloudbased services
- industrial applications (Industry 4.0)
- application layers for wireless networks
- wireless for machine-to-machine (M2M) applications
- cognitive radio and sensor-based applications
- wireless for emergency and security systems
- Business process for wireless applications and services
- Business models for wireless applications and services

Symposium Language. The official symposium language is English.

Invitation to Sponsoring Program. Organizations and companies interested in presenting their products are invited to participate in the Sponsorship Program.

Some social Program including City tour will be organized.

Submission. Papers must be written in English (3-4 pages, MS Word or LaTeX and pdf formats) using the templates provided on the web site via EasyChair online submission system. Each submission should reflect relevance, significance and originality, see details at <http://www.idaacs.net/2018>. A submission implies the commitment to register and present the accepted paper.

All presented papers will be published in Symposium Proceedings.

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IMPORTANT DATES

REGISTRATION FEE

Paper submission: May 10	International participants		Participants from Georgia, Moldova and Ukraine	
	Paper acceptance: July 10	IEEE Member	180 €	IEEE Member
Payment confirmation: August 15	IEEE Student Member	75 €	IEEE Student Member	35 €
Camera-ready papers: August 05	Non-IEEE member fee is greater on 10% than a corresponding category			

At least one author per accepted paper should pay a Registration fee in order to publish the paper. Details regarding payment process are provided at the symposium site. All correspondence should be directed to Orest Kochan sws@idaacs.net