IEEE Networkin 16-	As Communications and In Conference 2018 18 April 2018 Barcelona
development and design of wireless systems and networks. Spo history of bringing together industry, academia, and regulatory boo	searchers, industry professionals, and academics interested in the latest onsored by the IEEE Communications Society, IEEE WCNC has a long dies. In 2018, the city of Barcelona will become the center of the wireless nical sessions, tutorials, workshops, and technology/business panels. You as and networks. Potential topics include, but are not limited to:
<ul> <li>Track 1: PHY and Fundamentals</li> <li>Channel modeling, characterization and estimation</li> <li>Modulation, coding, diversity, equalization, synchronization</li> <li>OFDM, multi-carrier modulation, waveform design</li> <li>Interference modeling, management, cancellation and alignment</li> <li>PHY strategies for low-rate, sporadic and asynchronous communications</li> <li>MIMO, massive MIMO and cloud-RAN</li> <li>Cooperative, device-to-device and multi-hop communication</li> <li>Cognitive radio, spectrum sensing</li> <li>Content caching and storage in wireless networks</li> <li>PHY layer design for cellular, wireless LAN, ad hoc and sensor networks</li> <li>Energy efficient and energy harvesting PHY layer design</li> <li>Joint information and energy transmission</li> <li>PHY layer security and privacy, ultra-wideband, mmWave and sub-THz communication</li> <li>Signal processing for wireless communications</li> <li>Molecular and nano communications</li> </ul>	<ul> <li>Track 3: Wireless Networks</li> <li>Software-defined mobile/wireless networks</li> <li>Wireless Network Functions Virtualization</li> <li>Virtual network management and orchestration</li> <li>Mobile cloud</li> <li>Fog computing and networking</li> <li>Mobile Edge Computing</li> <li>Mesh, relay, sensor and ad hoc networks</li> <li>Routing in wireless networks</li> <li>Cognitive radio and networking</li> <li>Big Data enabled Self-Organized Networking</li> <li>Mobile hig data and network data analytics</li> <li>Integrated Wireless/Optical networks</li> <li>Mobility, location, and handoff management</li> <li>Wireless broadcast, multicast and streaming</li> <li>Congestion and admission control</li> <li>Wireless network security and privacy</li> <li>Mobile social networks</li> </ul>
<ul> <li>Hard 2: MAC and Cross-Layer Design</li> <li>Wireless MAC protocols for 5G: design, analysis, and pumization</li> <li>Cognitive and cooperative MAC</li> <li>MAC for mesh, ad hoc, relay and sensor networks</li> <li>Scheduling and radio resource management</li> <li>Cross-layer MAC design</li> <li>Software defined radio, RFID MAC</li> <li>MAC protocol for energy efficient MAC</li> <li>MAC design for multitier cellular/small cell networks</li> <li>Mather Design in machine-to-machine communication</li> <li>MAC protocols for molecular and nano networks</li> <li>MAC protocols for mmWave networks</li> <li>Full-duplex MAC design</li> <li>Cross-layer design for massive MIMO and multiuser MIMO networks</li> </ul>	<ul> <li>Track 4: Emerging Technologies, Architectures and Services</li> <li>Mobile/Wireless network support for vertical industries</li> <li>Adaptive content distribution in on-demand services</li> <li>Context and location-aware wireless services and applications</li> <li>User-centric networks and adaptive services</li> <li>Wireless body area networks and e-health services</li> <li>Intelligent transportation systems</li> <li>Dynamic sensor networks for urban applications</li> <li>Wireless emergency and security systems</li> <li>Ultra-reliable communication</li> <li>Enabling regulations, standards, spectrum management</li> <li>Hybrid licensed/unlicensed spectrum access schemes (e. g. licensed-assisted access)</li> <li>Technologies, architectures and enabling business models for rural communications</li> <li>Satellite-based mobile access and backhaul</li> <li>Hybrid satellite-terrestrial networks</li> <li>Full duplexing</li> <li>Joint access and backhaul schemes</li> <li>Testbed and prototype implementation of wireless services</li> </ul>

## CALL FOR TUTORIALS AND WORKSHOPS

Proposals for tutorials and workshops are solicited on hot topics for future wireless communications systems and applications.

## CALL FOR PANELS

Panel proposals are also solicited on technical, business and policy-related issues and opportunities for the wireless communications industry.

Accepted and presented papers will be published in the IEEE WCNC 2018 Conference Proceedings.

## IMPORTANT DATES

## General Chairs

Paper Submission Deadline	e: September 15, 2017	Carles Antón-Haro, Centre Tecnològic Telecomunicacions Catalunya (CTTC)
Notification of Acceptance:	December 15, 2017	Vice-chairs
Camera-Ready Submission	<b>,</b>	Xavier Mestre, CTTC, and Josep Mangues, CTTC
Tutorial Proposals:	September 15, 2017	Technical Program Chair
	Separate Call-for-Proposals	Mischa Dohler, King's College London
Panel Proposals:	September 15, 2017	
		Steering Committee Chair
		Khaled B. Letaief, IEEE Communications Society (ComSoc)