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# Towards 5G and beyond for the Internet of UAVs, Vehicles, Smartphones, Sensors and Smart Objects

Smart homes, smart cities, intelligent transportation systems, mobile crowdsensing are only some of the concepts that the latest technological advances made possible to offer. This perspective has occurred because Internet has become increasingly ubiquitous, allowing connecting anytime and everywhere not only people but also the objects of the so-called cyber-physical world. The shared vision of such systems is usually associated with one single concept, the Internet of Things (IoT). "Things" can be small sensors and actuators or objects like home appliances and smartphones, but increasingly vehicles and Unmanned Aerial Vehicles (UAVs). As a consequence, the IoT has the potential to revolutionize pervasive computing and its applications as it enables detailed characterization of the physical environment, as well as a rich set of interactions with the physical world. Unavoidably, wireless communications are on the basis of the IoT. Depending on the scenario, they must be designed to address some or all of different and challenging objectives that include extremely low to no power consumption, high to massive throughput, extreme reliability, minimal to negligible latency, ubiquitous coverage under all circumstances. These challenges are being addressed in the design of the future 5G and beyond networks, but still many issues remain unsolved. This special issue solicits the submission of high-quality and unpublished papers that aim to solve open technical problems and challenges typical of wireless communications in the Internet of Things, including networks of Sensors, Smartphones, Vehicles, UAVs and all Smart Objects that are around us. Both theoretical and experimental studies for typical IoT scenarios are encouraged. Furthermore, also high-quality review and survey papers are welcomed.

Topics of interest include (but are not limited to):

- Communication architectures, technologies, and applications for IoT systems towards and beyond 5G networks
- Energy-efficient communications and management for the next generation IoT

- Wireless technologies for smart homes, smart cities, and ITS
- Evolution of DSRC and LTE-V2V for connected vehicles
- Wireless communications for the Internet of UAVs
- Direct communications in IoT, including D2D, M2M, and V2V
- Standards and protocols for ultra-dense and highly mobile IoT networks
- Privacy, Security and Trust for IoT
- Beyond 5G wireless networks and architectures
- Experimental results, prototypes and testbeds in IoT towards 5G and beyond

### **Submission Format and Guideline**

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### **Important dates**

- Paper submission: April 30, 2018
- Acceptance notification: July 15, 2018
- Final papers: Aug 31, 2018

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