IEEE RFID 2020 Tutorials and Workshops, Call for Participation

# IEEE RFID 2020 Workshop on What Should Gen3 Be?

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Since 2004, the year when Gen2 was introduced, RFID was adopted in myriad applications such as logistics, retail tracking, highway tolling, and many, many more. Fifteen years of technological advance have radically altered what was possible at the outset of the Gen2 RFID standard. Thus, this workshop asks: What should Gen3 be? In particular, the workshop will focus on physical- and link-layer aspects of future backscatter systems such as propagation modeling, RF tag electronics, SNR improvement, and operating beyond the standard UHF band.

**Topics Included**

- Fading in backscatter systems

- Backscattering with gain: Using reflection amplifiers and/or retrodirective arrays

- Advanced modulation and coding schemes

- Microwave and millimeter-wave backscatter systems

- Multi-antenna backscatter systems

- Gen3 security

**How to submit?**

There are two avenues of submission. For presentation of a peer-reviewed conference paper, submit a manuscript (4-6 pages) through the IEEE RFID 2020 Workshop on Advanced Topics in Backscatter Communications track on EDAS. For an abstract-based presentation or demonstration, please e-mail a title, half-page abstract, short biography of presenter(s), and any other requirements (e.g. logistics of a hardware demo) to Mohammad Alhassoun (malhassoun@kfupm.edu.sa)