

IEEE AP-S/MTT-S Egypt Section Chapter

RFID Systems and Applications

Prof. Atef Z. Elsherbeni

IEEE Fellow (2007) - ACES Fellow (2008)

IEEE APS Distinguished Lecturer (2020-2023)

Electrical Engineering Department, Colorado School of Mines

Date: 1 Dec 2022 | Time: 11:00 AM to 01:00 PM



Agenda

- Introduction
- RFID Technologies
- UHF RFID Systems and Operation
- New Designs of UHF RFID Reader Antennas
- UHF RFID Applications
- Discussion and questions.

RFID Systems and Applications

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With the fast-emerging use of Radio frequency identification (RFID) technology there is a great need for understanding the system composition and theory of operation. This presentation will start with a brief history and the illustration of an RFID system components. Next is the process of operation and the frequency allocation in different parts of the world. Followed by the different types of RFID tags and their properties. Focus will then shift to the UHF systems, tag developments and system applications, especially for integrating sensors with RFID tags. Throughout the presentation, material available from open literature will be presented and identified along with other material developed by the presenter in collaboration with different groups and students. Current challenges for RFID systems and applications will be highlighted and other identification methods will be touched on at the end of the presentation.

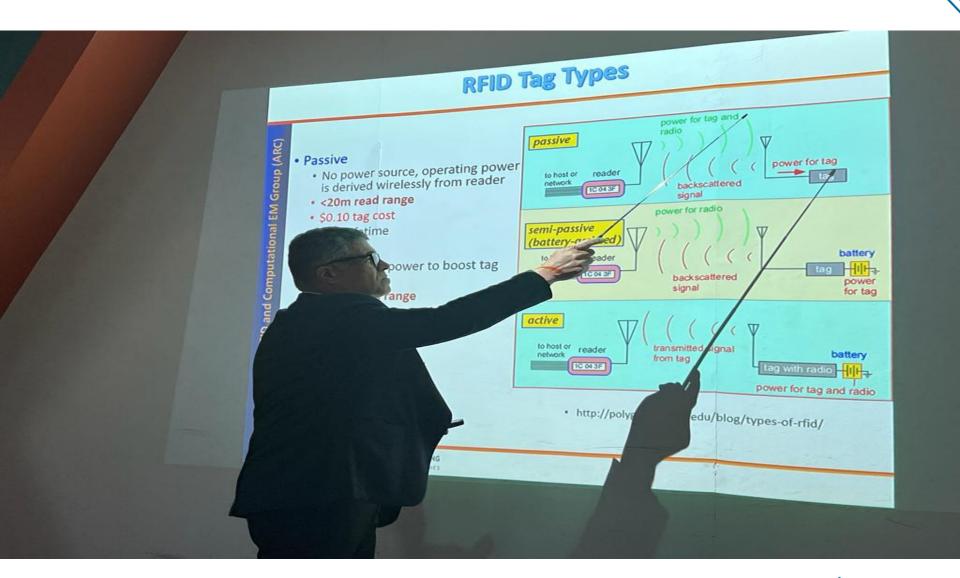
Date | Time : Thursday, December 1, 2022 | 11 AM To 1 PM
Registration Link: https://ar02gza54qj.typeform.com/to/nDwxwX7o [Free Attendance]
Location: Innovation Hub, Silicon Waha, New Borg El-Arab City, Alexandria, Egypt.



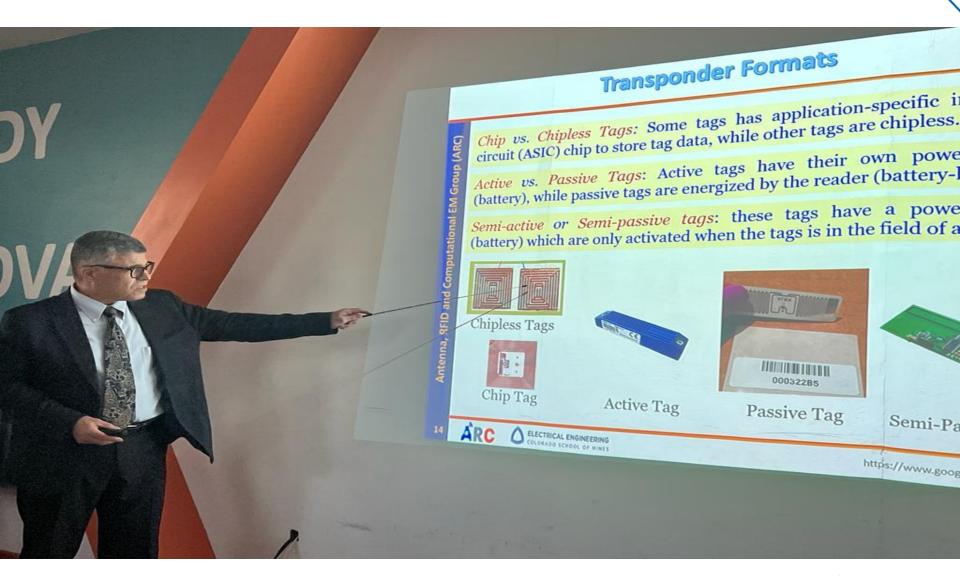




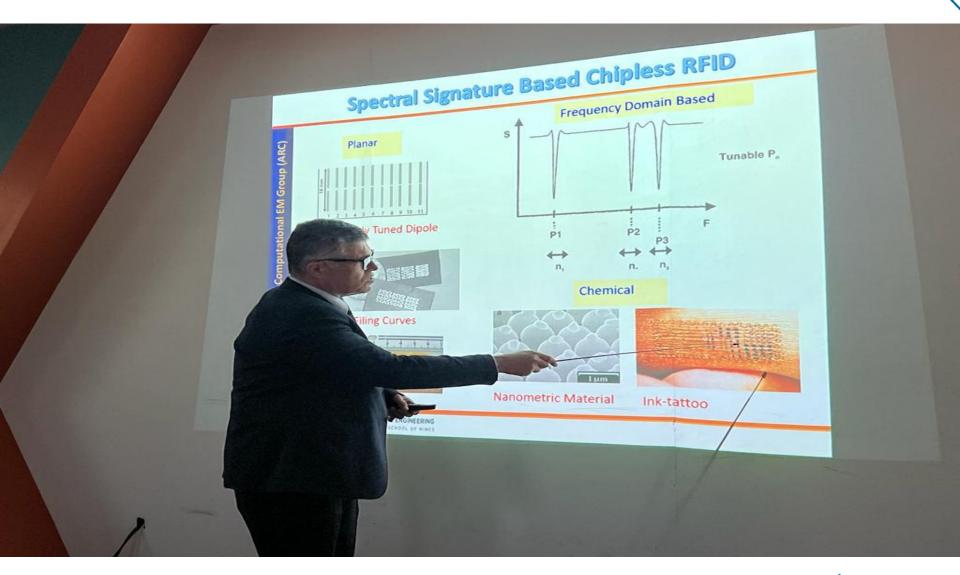




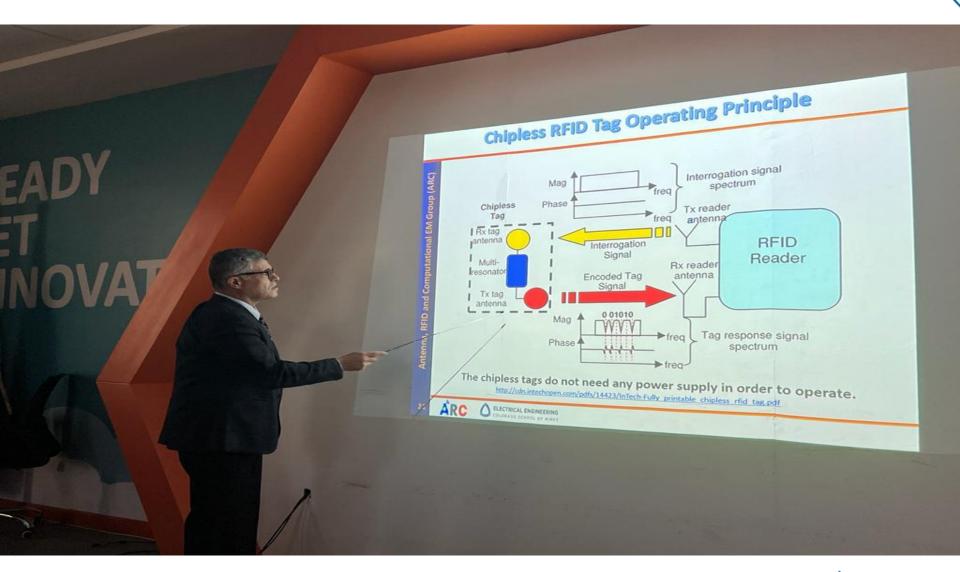




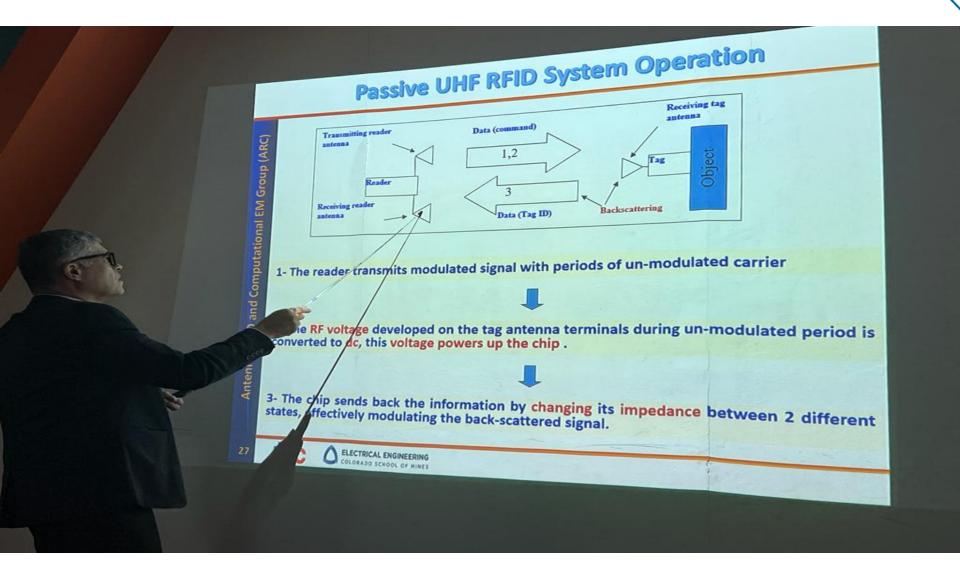




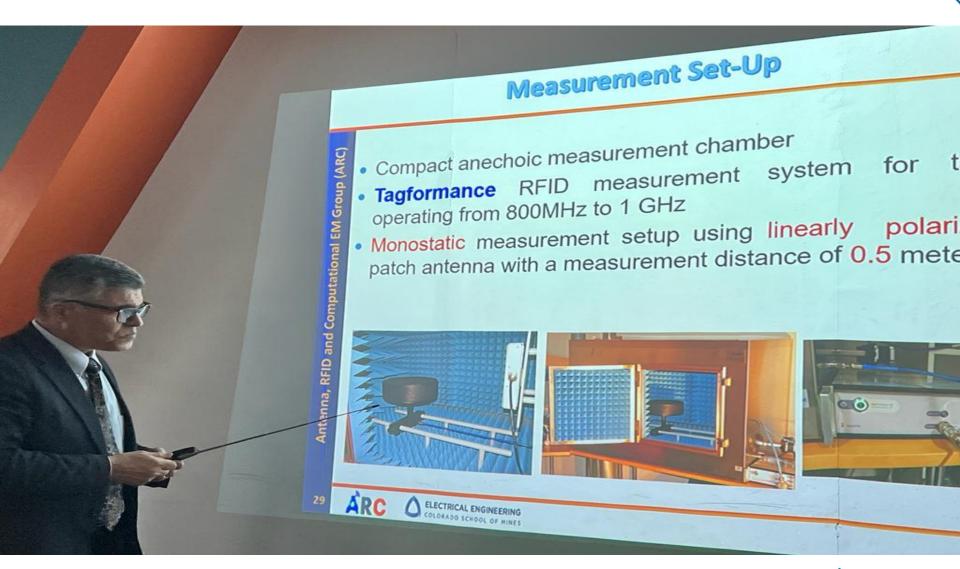




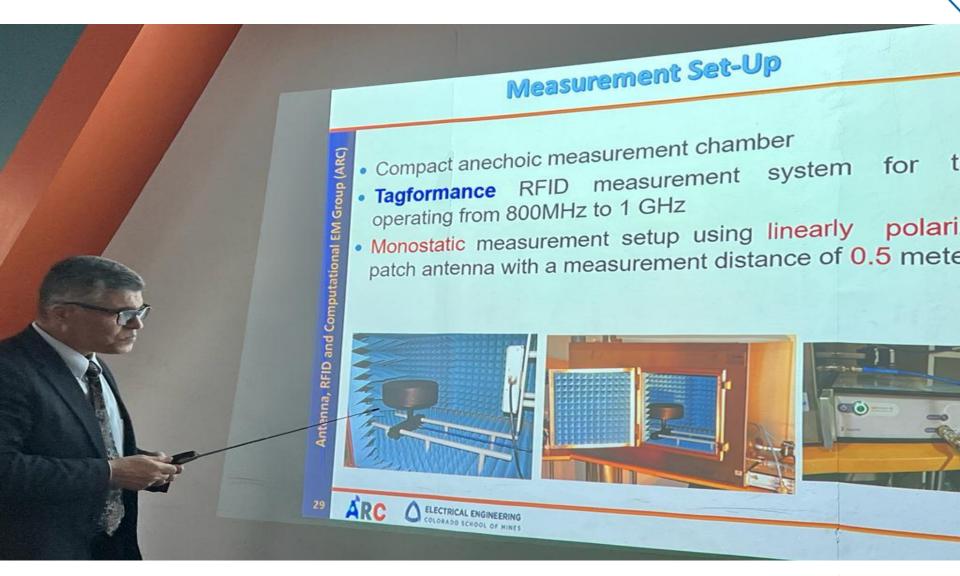




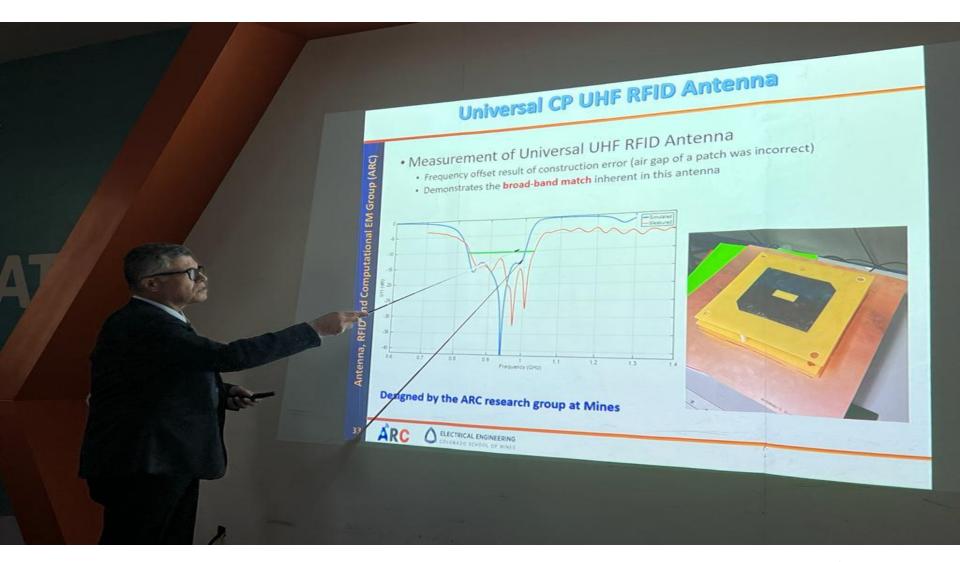




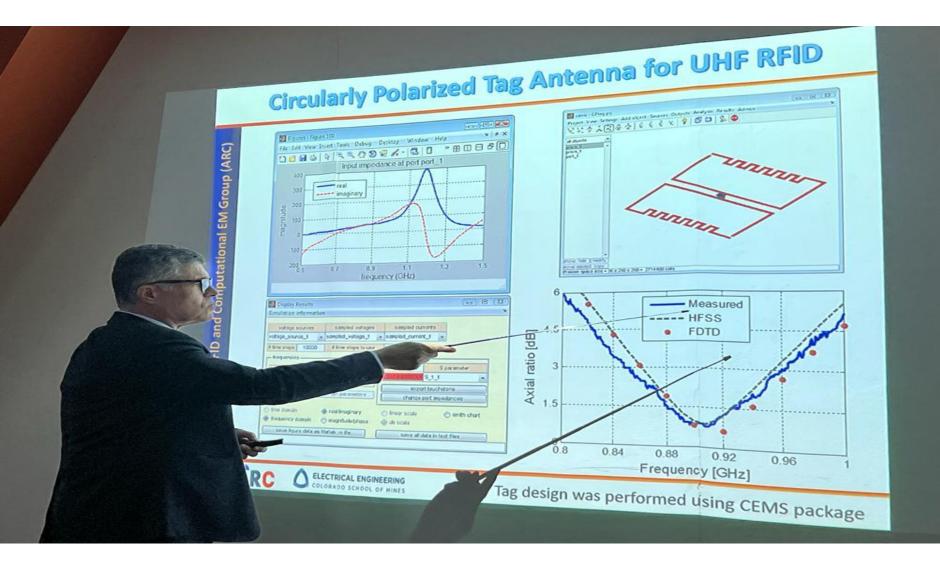




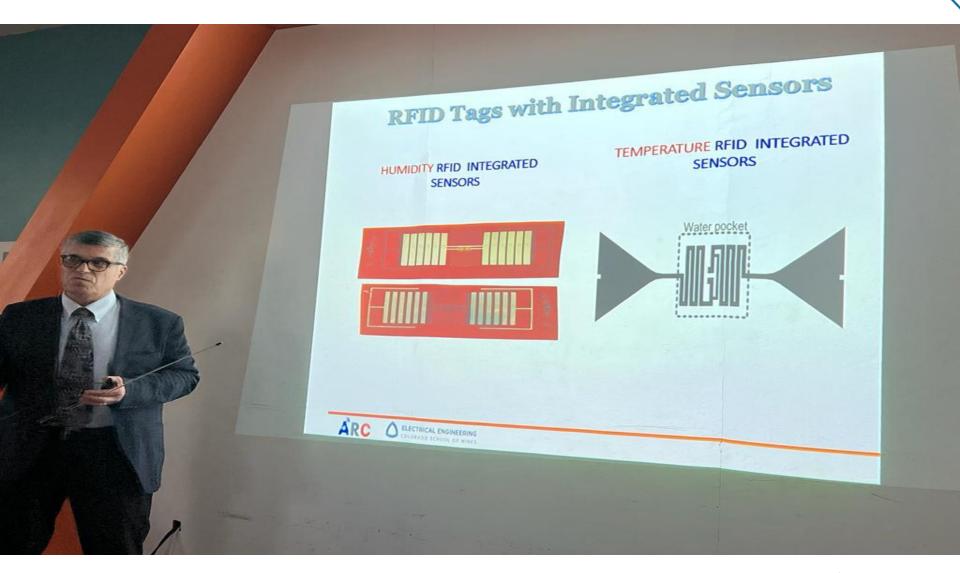




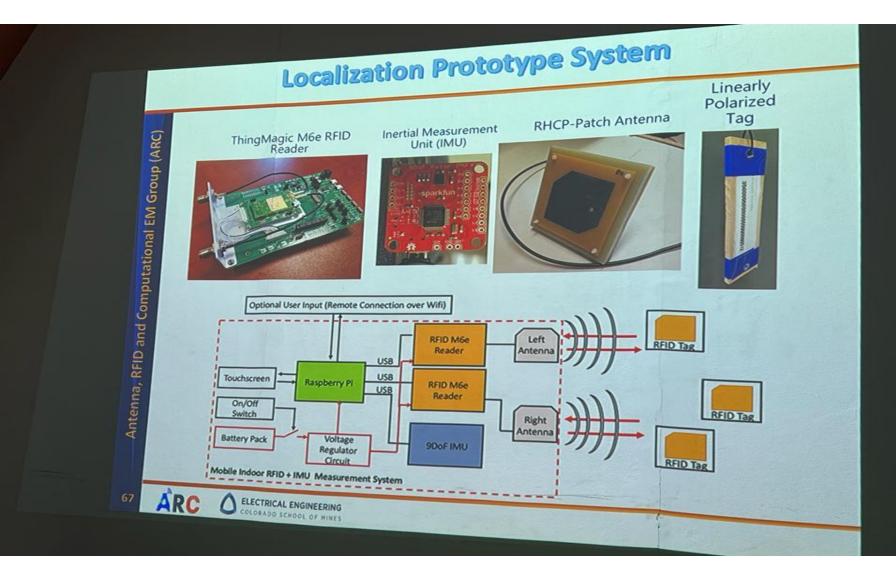


















Thank You

