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Radio Frequency Identification Technology and Applications

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Scope of the Journal

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IJRFITA provides the primary forum to report and address the fundamental engineering and physical issues of RFID tag operation and tag/reader communication. The tag technologies will include backscatter, chip-less RFID and other alternatives to the classical chip and antenna combinations. The perspective is one of the hardware physical and mathematical foundations as opposed to enterprise software communicating with readers and the commercial product numbering systems.

Contents

IJRFITA publishes original research papers, survey papers, testing procedures and analytical verification of various electromagnetic models of performance. On some occasions, papers relating to the enterprise RFID deployment will be published when there is a strong connection to the physical tag and reader physical understanding.

Topics covered include:

- Remote powering issues with passive RFID tags
- Optimisation of communication protocols for minimising power consumption
- Antenna design and analysis for specific types of RFID tags
- Low cost tag manufacturing techniques
- Test procedures for standardised performance evaluation
- The advantages of both single and multiple frequency protocols including ultra wide band for identification and sensing
- Early identification of potential areas for standardisation



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