Switched loop antenna for RFID localization

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Introduction

- The poster suggests an approach for localizing tagged items by equipping the RFID tag with a low-complexity switched loop antenna.
- By controlling the polarity of a DC source sharing the RF path with the input signal, different beampatterns are triggered and different spatial responses are thus observed by the RFID reader.
- The different spatial signatures allow the RFID reader to estimate the direction of the tag with a single receive antenna at the reader’s side.

State of the Art

Proposed System

Proposed System, ctd’

References