

**School of Computer Science & Software Engineering
CITS4419 Mobile and Wireless Computing**

**The Holes Problems in WSNs (Part 2)
Week 10 Tuesday 9 October 2018**

In this lecture we consider the of “holes problem” in WSNs that prevent sensors from delivering their data to the sink. This week focuses on attacks that can lead to holes.

Questions (to guide your listening and reading)

1. Distinguish between malicious and unintended sources of routing “holes” in sensor networks (WSNs).
2. Summarise some ways in which a malicious agent can create holes in a WSN.
3. What approaches can be used to counteract jamming approaches? Discuss solutions in terms of the LoRa technologies studied earlier in this unit.
4. Authentication can be used to overcome black hole attacks, but this can be difficult in a WSN. Why is this? Explain some ways in which standard authentication techniques should to be modified for WSNs.