

### **Channel characterization at 2.4 GHz for aerial base station**

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### **A configurable radio jamming prototype for physical layer attacks against malicious unmanned aerial vehicles**

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### **A deep learning approach for LoS/NLoS identification via PRACH in UAV-assisted public safety networks**

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### **Energy efficiency and latency optimization for IoT URLLC and mMTC use cases**

**Elgarhy, Osama Mohamed Mostafa**; Reggiani, Luca; **Alam, Muhammad Mahtab**; Zoha, Ahmed; Ahmad, Rizwan; **Kuusik, Alar** IEEE Access / p. 23132-23148 <https://doi.org/10.1109/ACCESS.2024.3364349> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article WOS](#)

### **Impact of power allocation on device-to-device discovery processes**

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### **A primer on public safety communication in the context of terror attacks: the NATO SPS "COUNTER-TERROR" project**

**Alam, Muhammad Mahtab**; **Le Moullec, Yannick**; Ahmad, Rizwan; Magarini, Maurizio; Reggiani, Luca Advanced Technologies for Security Applications : Proceedings of the NATO Science for Peace and Security 'Cluster Workshop on Advanced Technologies', 17-18 September 2019, Leuven, Belgium 2020 / p. 19-34 [https://doi.org/10.1007/978-94-024-2021-0\\_3](https://doi.org/10.1007/978-94-024-2021-0_3) [Article collection metrics at Scopus](#) [Article at Scopus](#)

### **ProSe direct discovery : experimental characterization and context-aware heuristic approach to extend public safety networks lifetime**

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### **Q-Learning based joint energy-spectral efficiency optimization in multi-hop device-to-device communication**

**Khan, Muhidul Islam**; Reggiani, Luca; **Alam, Muhammad Mahtab**; **Le Moullec, Yannick**; **Sharma, Navuday**; Yaacoub, Elias; Magarini, Maurizio Sensors 2020 / art. 6692, 23 p.: ill <https://doi.org/10.3390/s20226692> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Radio resource management in NB-IoT systems : empowered by interference prediction and flexible duplexing**

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### **Rate-latency optimization for NB-IoT with adaptive resource unit configuration in uplink transmission**

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### **Service placement and migration algorithm utilizing precise positioning for connected and automated vehicles**

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