**Self-organising, self-healing Wireless Networks**

Useful for examining the issues of Ad-Hoc networks, routing techniques, contains a case study of Drone networks

<http://pecolab.colorado.edu/augnet/papers/ElliottHeileAdHoc.pdf>

**Closing the gap between simulation and reality in the sensor and motion models of an autonomous AR.Drone**

Looks at autonomous drone movement and advanced navigation capabilities (including simulation in part) in the areas of survelliance, search and rescue, etc.

<http://repository.tudelft.nl/view/conferencepapers/uuid:3ddf7e58-b499-4e03-ad57-7eddcd3f0728/>

**Paparazzi: how to make a swarm of Parrot AR Drones fly autonomously based on GPS.**

Pretty self-explanatory, GPS-based outdoor flight using the Parrot drone, an adapted autopilot.

<http://repository.tudelft.nl/assets/uuid:539602cb-2ab9-4225-a49b-186c6e90934e/Remes_2013.pdf>

**Resilient Network with Autonomous Flight Wireless Nodes based on Delay Tolerant Networks**

(Written in English by Japanese so doesn’t read too well) Study of methods for resilience of networks, could be useful for references so disaster relief and the need for tolerance.

<http://isyou.info/inpra/papers/inpra-v2n3-01.pdf>

**Simultaneous localization and mapping with the AR.Drone**

Thesis paper based on using drones with a real-time SLAM approach for those MAVs with a down-facing camera, partly based on simulation.

<http://www.nickd.nl/dl/thesis_Nick_Dijkshoorn.pdf>

**Integrating Sensor and Motion Models to Localize an Autonomous AR.Drone**

Similar to the above material (with the same author involved), involving the creation of a texture and feature map to autonomize drones.

<http://multi-science.atypon.com/doi/pdf/10.1260/1756-8293.3.4.183>

**Energy Efficient Routing in Mobile Ad Hoc Networks by Using Honey Bee Mating Optimization**

Energy efficiency is one of the constant problems with MANETs, and this particular routing protocol using HBMO presents a new algorithm that extends network lifetime and packet delivery ratio

<http://jacr.iausari.ac.ir/article_2508_3.html>

**Fuego - Forest Fire Detection**

<http://www.wired.com/2015/06/fighting-forest-fires-get-big-drones/>

Will be useful for talking about existing solutions as well as defining the problem space

**Team-level Programming of Drone Sensor Networks**

<https://www.sics.se/~luca/papers/mottola14team.pdf>

Good for definitions of sensor networks, and how they can be programmed (possible state-of-the-art for getting drones to complete tasks in networks) This is a really good article.

**A Robust and Efficient Node Authentication Protocol for Mobile Ad Hoc Networks**

<https://arxiv.org/ftp/arxiv/papers/1101/1101.0244.pdf>

Good for definition of the structure of MANETs, and how they operate, and how security can be a huge issue

**MANET Simulation Studies: The Incredibles**

<https://www.cs.auckland.ac.nz/courses/compsci742s2c/resources/p50-kurkowski.pdf>

Used for the definition of a simulation, how it works and how well it operates. The article itself is discussing how the results are decreasing invalidity despite being the major form of testing networks

**An Overview of MANETs Simulation**

<http://citeseerx.ist.psu.edu/viewdoc/download;jsessionid=98034439AABE10EDFD04652AB8788084?doi=10.1.1.106.3553&rep=rep1&type=pdf>

This has a list of the most popular simulators and what they are about, as well as a good explanation of why they are used. This should be quite good for introductions, etc.

**GloMoSim**

<http://www.scalable-networks.com/pdf/glomosim.pdf>

Definitions and extra information

**OMNet++**

<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.231.4511&rep=rep1&type=pdf>

Same as above – more sources to slap on

**Towards a long endurance MAV**

<https://hal.archives-ouvertes.fr/hal-01022516/document>

This report introduces paparazzi and gives an explanation of it, which can be sourced

**The design of an unmanned aerial vehicle based on the ArduPilot**

<http://www.indjst.org/index.php/indjst/article/view/29423/25429>

Gives an overview of Ardupilot which is useful for understanding how it works and giving a (legitimate) source for its specs

**Networked UAVs as aerial sensor network for disaster management applications**

<http://link.springer.com/article/10.1007/s00502-010-0717-2#/page-1>

An example of using UAV sensor networks for disaster management.

**Routing Protocols for Mobile Sensor Networks: A Comparative Study**

<https://arxiv.org/ftp/arxiv/papers/1403/1403.3162.pdf>

This report gives a side-by-side comparison of different routing algorithms for mobile wireless sensor networks. This will be useful for analysing protocols and choosing the right one

**Position Based Routing for Wireless Mobile Ad Hoc Networks**

<http://ijssst.info/Vol-10/No-1/paper2.pdf>

Extra information about several routing algorithms for Mobile ad hoc networks

**Ad Hoc On-demand Non Overlapped Multipath Distance Vector Routing Protocol (AONOMDV)**

[http://www.jacr.iausari.ac.ir/pdf\_4344\_d4fb628f0cde273c5a5a82426e**9**e0435.html](http://www.jacr.iausari.ac.ir/pdf_4344_d4fb628f0cde273c5a5a82426e9e0435.html)