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LECTURE ABSTRACT

Agent-based simulation of UAV traffic

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The technology of unmanned aerial vehicles has matured for various civil usage scenarios and is already being tested by major industry players including Amazon, Google and DHL. Their usage ranges from agriculture, aerial photography, traffic and ecology to surveillance and package delivery. Having the current trends and predictions about future use of this amazing technology in mind, it seems to be just a matter of time until we will alongside terrestrial (on the ground 2D) and aerial traffic (above 300 meters of altitude) have to control traffic of drones (below 300 meters of altitude). This zone of UAV traffic is currently not well regulated and often forbidden in many countries. The talk will therefore provide a state-of-the-art on UAV traffic regulation and aimed towards making a first step in developing basic traffic rules for (autonomous) UAVs by using agent based simulation models and small scale field studies.