

Micro5G

Mobile Edge Computing for 5G DROne Systems

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@ Luxembourg Kirchberg

MICRO5G studies the impacts of 5G technology on the drone industry, more precisely the creation of innovative 5G-assisted drone services. A major focus lies in the interplay between 5G and ultra-reliable, low latency communications (URLLC), mobile edge computing (MEC) and non-terrestrial networks. URLLC allows the improvement of the battery life of the drone and thus extends its flight time by moving complicated processing tasks from the drone to the mobile periphery. MEC supports crowdsourcing data from multiple drones, so the data can be consolidated and utilized as a traffic management tool. Non-terrestrial networks allow 5G connectivity to be provided in remote areas. The synergy of URLLC, MEC and non-terrestrial networks also enable drones to operate remotely at distances beyond the pilot's normal visible range. These new technological functionalities make it possible to improve the security of citizens in instances of disaster management.

Coordinators



For more information, please visit [the project website](#) or view the 5G & me video (available soon!).

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