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## Remote Navigation and Guidance for CBRNe Defense (Chemical, Biological, Radiological, Nuclear and Explosive Materials)

Guest Editor:

### Message from the Guest Editor

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This Special Issue addresses:

- Development of CBRNe sensory technologies, such as integration and miniaturization of electrochemical sensors, microbiological detection technologies, and radionuclide identification;
- Architecture of chemical, biological, and radiological data acquisition and processing systems;
- AI approaches with potential use to defend against CBRNe threats, such as to locate, identify and quantify risk outbreaks;
- Development and implementation of n-dimensional cartography, with the ability to record and time evolution;
- Integration of data captured by agents in different locations and time periods, such as UGV, UAV, or even through people on the ground, with a total or partial configuration of sensors;
- Models of propagation of chemical elements and microorganisms in plumes, such as plumes generated by chimneys of factories, hospitals or plants;
- Impact analysis and design of rotary wing UAVs in plumes;
- Topographies and 3D models with altitude, color, temperature, chemical, biological, radiological and nuclear components; and
- Pollutant dispersion models (for example the effect of volcanoes and the impact on air traffic).

Deadline for manuscript  
submissions:

**closed (31 March 2022)**



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# Special Issue



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## Message from the Editor-in-Chief

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