

## Special Issue

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

### Message from the Guest Editor

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).

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### Guest Editor

Dr. Alberto Vale

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### Deadline for manuscript submissions

closed (31 March 2022)



## Sensors

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## About the Journal

### Message from the Editor-in-Chief

*Sensors* is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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### Editor-in-Chief

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