

## Special Issue

# Sensors Based on RF Circuits and Microwave Circuits

### Message from the Guest Editor

Propagation of microwave/RF frequencies is sensitive to the environment through which they travel, which makes them very useful frequencies for sensors. Furthermore, microwave/RF circuits, such as oscillators, are very sensitive to components that control the operating frequency or output power. Thus, microwave/RF circuits have proven useful when it comes to measuring or sensing changes in the environment and have been used or researched for a broad range of applications.

Types of microwave/RF sensors that have been researched, developed or described in publications are:

- Surface acoustic wave resonators
- MEMS resonators
- MEMS cavities
- Transmission lines
- Waveguides
- Substrate integrated waveguides
- Coaxial probes
- Carbon nanotubes
- Metamaterials
- Radar

This Special Issue will cover all aspects of the use of microwave/RF circuits for sensors, including those listed above and those that may have been missed in the list. Papers are solicited for this Special Issue to accompany the invited papers.

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### Guest Editor

Prof. Dr. George E. Ponchak  
NASA Glenn Research Center, Cleveland, OH, USA, retired

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### Deadline for manuscript submissions

closed (30 June 2020)



## 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

Prof. Dr. Vittorio M. N. Passaro

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