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Special Session 3: Recent Advancement in Radar and Sonar Signal Processing

For a long time, radar and sonar technology has been playing an important role in civilian and defense applications. Based on this technology, more and more accurate information about target in space, on land, at sea and under water can be obtained. In recent years, sparse technique, multistatic technique, deep learning, artificial intelligence, synthetic aperture technique, inverse synthetic aperture technique and so on are applied to radar and sonar filed. These techniques brings many advantages for imaging, target detection, tracking, characterization based on radar/sonar. For example, more accurate results can be obtained. Today, the users require that the radar/sonar platforms like smart unmanned vehicle are smart and flexible. This makes the radar/sonar signal processing much more challenge. To some degree, the basic theory of radar and sonar is very close. Unfortunately, specialists from the radar and sonar fields do not interact with each other enough, slowing down progress in both areas.

Potential topics include but are not limited to the following:

- ▶ Radar/Sonar imaging (SAR, ISAR, InSAR, SAS, InSAS, ISAS, sidescanning sonar, multibeam sonar, sonar profiler)
- ▶ Cognitive radar signal processing
- ▶ Radar/sonar tracking
- ▶ Radar/sonar detection
- ▶ Radar and sonar technology for autonomous vehicles
- ▶ Automatic target detection and classification
- ▶ Artificial intelligence for radar and sonar data processing
- ▶ Deep learning for radar and sonar data processing
- ▶ Sparse technique for radar and sonar data processing
- ▶ Multistatic radar/sonar
- ▶ Passive and active radar imaging (SAR, ISAR)
- ▶ Automotive radar/sonar
- ▶ Data fusion
- ▶ Platform design
- ▶ Radar/sonar image processing
- ▶ Feature extraction
- ▶ Radar and sonar technology for autonomous vehicles
- ▶ Target classification
- ▶ Radar/sonar communication
- ▶ Waveform design techniques in radar/sonar applications
- ▶ Array signal processing

For more information, please visit: <http://www.iccsn.org/ss3.html>

Organizer

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Publication

Special session accepted full papers after peer review will be included into **ICCSN 2023 Conference Proceedings** and indexed by **Ei Compendex** and **Scopus**, etc. after conference. ICCSN Conference has very credible publication index records.

ICCSN 2022 - ISBN: 978-1-6654-5328-8 | IEEE Xplore Online | Ei-Compendex & Scopus Index

ICCSN 2021 - ISBN: 978-1-7281-9814-9 | IEEE Xplore Online | Ei-Compendex & Scopus Index

ICCSN 2020 - ISBN: 978-1-7281-9814-9 | IEEE Xplore Online | Ei-Compendex & Scopus Index

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ICCSN 2009 - ISBN: 978-0-7695-3522-7 | IEEE Xplore Online | Ei-Compendex & Scopus Index

Important Dates

Full Paper Submission Deadline	June 10, 2023
Notification of Review Result	June 20, 2023
Camera-Ready / Registration Deadline	June 25, 2023

Submission Method

- ▶ Full Paper Submission:
<http://www.easychair.org/conferences/?conf=iccsn2023>
Please Select Track: Special Session 3: Recent Advancement in Radar and Sonar Signal Processing to Submit
- ▶ Abstract Submission: iccsn_conference@163.com

General Conference Schedule

Day 1, July 21	10:00-17:00 Sign in and Collect Conference Materials
Day 2, July 22	09:00-12:00 Opening Ceremony and Keynote Speeches
	13:30-18:30 Parallel Sessions
	19:00-20:30 Conference Banquet
Day 3, July 23	09:00-12:00 Parallel Sessions
	13:30-15:30 Parallel Sessions
	16:00-17:00 Lab Visiting

Contact

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