Special Issue

Deep Learning for Radar and Sonar Image Processing

Message from the Guest Editors

Over the past few years, radar and sonar image processing and understanding, for both civilian and defense applications, have taken advantage of the breakthrough of artificial intelligence, especially deep learning. Unfortunately, specialists from the radar and sonar fields do not interact much with each other. The aim of this Special Issue is to increase these exchanges and allow experts from other areas to understand the specifies of radar and sonar problems. Indeed, radar and sonar images have some particularities, compared to common optical images. Thus, processing these data requires certain precautions, and specific developments must be made to address applications such as image segmentation or object detection. However, one of the main problems, especially in defense applications, is the lack of data. To overcome this problem, several solutions can be considered such as image synthesis using generative adversarial nets (GANs) to create or increase the size of the training sets, domain adaptation or transfer learning.

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Deadline for manuscript submissions

closed (1 December 2021)

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/65926

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Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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