Ocean Big Data Application - Engineering

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Message from the Guest Editors

Ocean observation represents a crucial task for human communities. Above sea level, this entails the implementation of maritime surveillance platforms, typically addressing security and safety issues (vessel traffic monitoring, search and rescue) as well as environmental sustainability aspects (fishery, pollution). On the other hand, the submerged ocean environment poses equally hard challenges for what concerns oil and gas exploitation or biology and cultural heritage safeguard. Performing the mentioned activities operationally requires the collection of a huge amount of multi-source and multi-sensor data. Publications in this Special Issue will aim at composing a comprehensive overview of the several aspects that emerge in the implementation of ocean observation platforms through big data processing.

- Ocean data representation, analysis and learning
- Deep learning applied to big data for ocean observation
- Techniques for data processing applied to ocean observation and cultural heritage safeguard
- Target detection, classification and identification in ocean data
- Vessel traffic monitoring
- Marine pollution monitoring along with sea environment monitoring issues

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Message from the Editorial Board

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