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The prevalence of Distributed Sensor Networks on the Internet has allowed the field to become a relevant and active research area, attracting professionals and researchers from a variety of fields and disciplines. By incorporating trajectory information, we can bring Distributed Sensor Networks back to the physical world, conveniently sharing our real-life experiences in the virtual world. By mining trajectory patterns or predicting locations from Distributed Sensor Networks, people can not only track and share location-based information with each other via mobile devices, desktop computers, or sensors, but also benefit from the collective knowledge learned from this content.

Arguably, a trajectory is one of the most fundamental properties in a person's life, and the research on trajectory mining in Distributed Sensor Networks works to bridge the gap between the virtual and physical world. This research has the potential to change the way we live, such as enabling applications which can maximize results from path planning, restaurant/business recommendations. Research can also work to advance human mobility modeling and user activity analysis, which can have broad impacts in social science and engineering.

This special issue welcomes a wide range of paper submissions which can contribute to addressing and solving the challenges facing the location based Distributed Sensor Network's research domain. We welcome you to be a part of this platform and to contribute to the exchange of ideas and latest research by submitting your original contribution to this special issue.

Potential topics include, but are not limited to:

- ▶ Data collection by hardware and software, in-network query processing, and data storage
- ▶ Spatial and spatiotemporal data mining in distributed sensor networks
- ▶ Moving object tracking, indexing, and retrieval in distributed sensor networks
- ▶ Trajectory data mining and knowledge discovery from distributed sensor networks
- ▶ Activity recognition and sensing for distributed sensor networks
- ▶ User behavior modeling using physical sensor data
- ▶ Mobile and ubiquitous computing for distributed sensor networks
- ▶ MEMS area for sensor big data

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