

**Special session****Deadline: 15 May 2020****Title:**

Maritime Logistics

**Organised by :**

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**Abstract:**

The maritime transport carries a large share of containerized trade, making it the backbone of the globalized trade and a tangible influential on the manufacturing supply chain performance. Container transfer chain relies on multiple facilities to operate, namely container terminals and shipping lines. The complexity of maritime operations involves the continuous improvement of the existing planning, scheduling, assignment and synchronizing optimization and simulation methods. In addition, accurate optimization and simulation imply better estimation of their main parameters namely the capacity and demand. However, gauging the accurate demand and capacity remains a complex exercise, given the uncertainty about the sensitivity of demand and capacity. Moreover, supply chain responsiveness relies on the throughput of those facilities by increasing capacity, whereas the wave of sustainability driven policies continues to put pressure on the concerned businesses to adapt their agendas regarding capacity.

Stimulated by these circumstances, research has tended to address topics about seaport resources assignment and scheduling in addition to demand and capacity forecasting. The optimization, simulation and datamining methods were used to cope with these issues. Yet, there still much to be done regarding this field.

The special session calls for research contributions about various areas of port logistics by bringing together researchers who have studied maritime transport related problems. We highly welcome theoretical and methodological contributions with mathematical approaches, machine learning and operational research methods.

Empirical case studies illustrating the best practices of these approaches are also appreciated.

**List of topics:**

We invite researchers to present their theoretically and their practically sound research papers in fields including but not restricted to the following topics:

- Optimization of port resources assignment and scheduling
- Intermodal shipping planning methods.
- Liner shipping planning.

- Sustainability in sea and port operations.
- Resilience in port logistics.
- Big data and datamining approaches for port logistics.
- Case studies and simulations of port operations.

**Keywords:**

Maritime Logistics, Port Logistics, Optimization, Simulation, Big Data, Machine Learning