

## Journal of Marine Science and Application, Springer-Verlag

### Special Issue on “Demanding Maritime Operation”

*Guest Editors: Prof. Hans Petter Hildre, Prof. Houxiang Zhang, Prof. Sören Ehlers*



Marine operations are becoming more and more demanding. Anchor-handling at depths of several thousand metres, precise installation of subsea modules weighing several hundred tons, platform support in the ice and the cold of the northern regions, etc., are all examples of new marine operations. The complexity increases even further taking into account that these operations require a much greater coordination between professionals during e.g. ship manoeuvring and crane, winch and ROV operations, often in coordinated operations with a rig and other ships.

There is a strong global demand for services within marine operations. The main drivers include two aspects:

1. Developments of deep and ultra-deep fields as well as exploration and production in arctic climate. This means developments in difficult accessible areas with possibly long transport distances (manpower, equipment, power, etc.) and short time windows for operations.
2. Modifications and life-time extension for existing facilities including tie-in of small/marginal fields to improve tail-end production (EOR) which requires light-weight/cost-effective intervention and development of “good enough” technology.

This special issue aims to foster the dissemination of high quality research related to the state-of-the-art technologies applied to demanding maritime operation and related applications.

#### **Topics of interest include (but not limited to)**

- Ship control and vessel performance
- Ultra deep-water operations
- Subsea mining operations
- Operation in Arctic and sub-arctic areas
- Installation and maintenance of offshore wind turbines
- Sensor network and fusion for maritime application
- Marine data analytics and management
- Virtual prototyping for testing, training and innovation in maritime operation
- Maritime operation performance assessment
- Ship motion prediction
- Data based decision support systems
- Maritime machinery and mechatronics
- Offshore drilling

### **Schedule (tentative)**

- Paper submission deadline: December 30, 2016
- Paper notification: March 30, 2017
- Final manuscript: May 01, 2017
- Publication: June, 2017 (online) and July, 2017 (print)

### **Submission Guidelines**

Submitted articles must not have been previously published or currently submitted for journal publication elsewhere. Paper submissions must conform to the layout and format guidelines of the journal. The submission template can be found by clicking on “Instructions & Forms” at the top right-hand corner of the journal submission website <https://mc03.manuscriptcentral.com/jmsa>. Submissions must be directly sent via the journal submission website (choose the manuscript type as “Special issue on demanding marine operations” at the first step when you submit manuscripts).

Each submitted paper will be reviewed by at least three editorial reviewers. Criteria and Evaluation:

- Significance to the journal's audience & relevance to this special issue
- Quality of the paper including originality, technical depth, significance of results, adequacy of priori works referenced, overall organization, clarity and readability, satisfactory English writing, sufficient support for assertions and conclusion, appropriate title, abstract adequately summarizes the paper, introduction provides proper orientation, clear tables and figures.

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