

CALL FOR PAPERS

The 3rd IEEE Intl. Maritime Big Data Workshop (MBDW 2022), collocated with the 23rd IEEE Intl. Conference on Mobile Data Management (MDM 2022)

[HYBRID CONFERENCE]

June 6, 2022, Paphos, Cyprus

<https://mbdw22.cs.ucy.ac.cy/>

AIMS & TOPICS OF INTEREST:

The growth of the maritime sector has produced an increase of the global maritime traffic and of the activities exploiting the ocean environment and its resources. Safety and security of maritime navigation remain a concern, like the global societal objective of reducing the environmental impact of maritime activities to pursue a sustainable and inclusive "blue growth". Technological innovations led to the development of automated monitoring systems and maritime sensors networks, producing a tremendous increase of the maritime data available and opening new avenues to interdisciplinary science-driven maritime operations and policy making. Institutional and industrial initiatives are developing infrastructures for maritime data sharing and offering advanced processing, fusion, and analysis, developing added values products in support of the maritime operational and industrial communities, policy making and informed citizenship. The Maritime Big Data Workshop 2022 is organized under the umbrella of the 23rd IEEE International Conference on Mobile Data Management (MDM 2022). It will be an opportunity for researchers, technology providers, institutions participating in interdisciplinary big data initiatives, and representatives of the operational community, to meet and exchange on research results and innovations in the maritime context. The workshop will welcome the presentation of novel big data computational solutions with application in the maritime context.

The topics of interest include, but are not limited to:

- * Novel ideas for organizing and harnessing the growing body of available Maritime data
- * Maritime intelligent surveillance and reconnaissance
- * Maritime situational awareness
- * Maritime environment monitoring and preservation

- * Maritime security
- * Intelligent maritime transportation systems
- * Digital twins for the maritime sector
- * Estimation of the impact of maritime activities on the maritime environment
- * Safety and security of maritime navigation and transport
- * Sustainable fisheries and exploitation of ocean resources
- * Complex maritime event recognition

The workshop will be organized in a manner that fosters interaction and exchange of ideas among the participants. Besides regular papers, we will also consider vision, retrospective, and work-in-progress papers that have the potential to stimulate debate on existing solutions or open challenges. We additionally plan to accept a limited number of demonstration papers where researchers and technologists will have the opportunity to describe an innovative system or tool in the area of data management for mobile and wireless access. We discourage the submission of incremental papers.

IMPORTANT DATES

Paper/Demo/Vision Submission:	March 30, 2022 (midnight AoE)
Notification of Acceptance:	April 18, 2022
Camera-ready Version Due:	May 5, 2022 (midnight AoE)
Workshop Date:	June 6, 2022

SUBMISSION INSTRUCTIONS AND PROCEEDINGS

Manuscripts in the following categories will be considered for publication in the 3rd IEEE Intl. Maritime Big Data Workshop:

- * Regular papers (max. 6 pages): The submission should describe significant theoretical and/or experimental contributions to the topics of the workshop.
- * Demo OR Vision papers (max. 3 pages): The submission should either describe some vision in the scope of the workshop or the architecture, implementation, and usage of innovative tools or systems that fit the context of the workshop. The presentation of demo or vision papers will be conducted in a designated session during the workshop (in the form of short presentations).
- * All of the submissions should be in PDF format and conform to the IEEE MDM'22 proceedings format. Submitted papers must not have been published or currently be under consideration for publication at another venue.
- * All of the submissions will be handled electronically. Each paper will be reviewed by several members of the program committee.
- * Detailed submission information will be posted on the website of the workshop.
- * The workshop proceedings will be published in the IEEE MDM proceedings (volume 2) by the IEEE Computer Society and electronic versions of the papers will be included in the IEEE Xplore and DBLP.

Submission URL

<https://cmt3.research.microsoft.com/MBDW2022/>

WORKSHOP CHAIRS

Herodotos Herodotou

Department of Computer Engineering and Informatics

Cyprus University of Technology

herodotos.herodotou@cut.ac.cy

<https://diel.cut.ac.cy/>

Alexander Artikis

Department of Maritime Studies, University of Piraeus, Greece

Institute of Informatics & Telecommunications, NCSR Demokritos, Greece

a.artikis@unipi.gr

<https://users.iit.demokritos.gr/~a.artikis/>

Matthias Renz

Department of Archaeoinformatics & Data Science

Kiel University, Germany

{mr, cat}@informatik.uni-kiel.de

<https://www.ai.informatik.uni-kiel.de/>