

Smart port-city development

Summary

There is hardly anything in port and maritime transport that has had so rapid development last decades, as digitalization. On the other hand, approximately 80% of European ports are related to the cities. While both ports and cities are growing, the conflicts about space and use of shorelines are common. In this Ph.D research we look for opportunities to improve port-city traffic issues by means of smart solutions. The work will be done jointly in Estonian Maritime Academy and Department of Business Administration, School of Business and Governance.

Research field:	Maritime studies
Supervisors:	Prof. Dr. Wolfgang Dieter Gerstlberger Prof. Dr. Ulla Pirita Tapaninen
Availability:	This position is available.
Offered by:	Estonian Maritime Academy
Application deadline:	Applications are accepted between October 01, 2022 00:00 and October 23, 2022 23:59 (Europe/Zurich)

Description

Ports worldwide are in the turbulence. Approximately 80% of European ports are related to the cities. While both ports and cities are growing the conflicts about space and use of shorelines are common. Issues like new housing, congestion on streets and noise are on the agenda. However, at the same time, there are multiple smart IT-solutions that can decrease these problems.

The aims this doctoral study is to use means of smart IT-solutions to increase the efficiency of ports and decrease potential conflicts in port-city relationships.

The position is at the Tallinn University of Technology and includes some work as a teacher in our courses.

Responsibilities and (foreseen) tasks

- Compile an analytical framework for contemporary issues in port-city development.
- Analyse and solve 1-3 specific port-city development cases by using IT-solutions.
- Develop reform proposals and suggestions for practice
- Contribute to the organization of research and practitioner workshops where project findings are presented.
- Report framework and cases in conferences and journals.
- Some work as a teacher in our courses.

Applicants should fulfil the following requirements:

- a master's degree in IT, maritime, economics, social sciences, law, engineering or another closely-related discipline.
- a clear interest in the topic of the position
- excellent command of English
- strong and demonstrable writing and analytical skills
- capacity to work both as an independent researcher and as part of an international team
- capacity and willingness to provide assistance in organizational tasks relevant to the project

The following experience is beneficial:

- Analytical skills, e.g. data science or statistical analysis is seen as an advantage.
- Knowledge in maritime and port management
- Basic knowledge in port-city relationships and city development



- Programming

The candidate should submit a research plan for the topic, including the overall research and potential solutions. The candidate can expand on the listed research questions and tasks.

We offer:

- 4-year PhD position in a vibrant growing research group of Maritime Transport in Estonian Maritime Academy together with Department of Business Administration, School of Business and Governance
- The chance to do high-level research in interesting maritime and port governance research community.
- Opportunities for conference visits, research stays and networking with globally leading universities and research centers in the fields of maritime transport and digital government.

About the department

Estonian Maritime Academy provides multi-level education and does professional research in marine sciences and fields related to them, making it the only competence centre of its kind in Estonia.

The Department of Business Administration deals with topical and relevant aspects of businesses – covering e.g. sustainable business development, innovation management and entrepreneurship – in its research and teaching activities.

Additional information

For further information, pls contact Tenured Associate Professor Maritime Transport, Estonian Maritime Academy, Tallinn University of Technology, Ulla Tapaninen, ulla.tapaninen@taltech.ee (Main supervisor), or

Professor Wolfgang Gerstlberger, Operations Management, Department of Business Administration, Tallinn University of Technology, wolfgang.gerstlberger@taltech.ee (Co-supervisor)



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