

# CONFERENCE PROGRAMME

---

---



## 1st International Conference on Maritime Transport



# Maritime Transport 2019

### NOTES TO CHAIRS AND PRESENTERS

Chairs must be in their respective rooms 10 minutes before the start of their session to meet with the presenting authors.

Authors must meet with the Chair of their session  
10 minutes before the start of the session.

Authors must keep strictly to the time allocated for their presentation  
to ensure the smooth running of the programme.

This programme is subject to last-minute alterations, please refer to the  
conference noticeboard for the most up-to-date information.

**10 - 12 September 2019**  
**Rome, Italy**

**Organised by:**  
Wessex Institute, UK  
University of Rome "La Sapienza", Italy

**Supported by:**  
WIT Transactions on The Built Environment  
International Journal of Transport Development and Integration

# CONFERENCE COMMITTEE



Maritime Transport 2019  
10 - 12 September 2019, Rome, Italy



## Conference Chairs:

**G. Passerini**  
Wessex Institute, UK

**S. Ricci**  
University of Rome "La Sapienza", Italy

## International Scientific Advisory Committee:

**L. Aragones**  
University of Alicante, Spain

**W. Ravesteijn**  
TU Delft, Netherlands

**P. De Girolamo**  
University of Rome "La Sapienza", Italy

**G. Rodriguez**  
University of Las Palmas of Gran Canaria,  
Spain

**S. Furio Prunonosa**  
The Valenciaport Foundation, Spain

**F. Rotoli**  
European Maritime Safety Agency, Portugal

**N. Guler**  
Istanbul Technical University, Turkey

**E. Veremey**  
Saint Petersburg State University, Russia

**I. Makashina**  
Admiral Ushakov Maritime State University,  
Russia

**P. Vorobieff**  
University of New Mexico, USA

**J. Niedzwecki**  
Texas A & M University, USA

**G. Zappala**  
National Research Council, Italy

# CONFERENCE PROGRAMME



Maritime Transport 2019  
10 - 12 September 2019, Rome, Italy



Tuesday, 10th September 2019

08.30 Registration

09.30 Opening Address by Conference Chairs

## Session 1 : Special session on routing and automatic control of marine ships

Session Chair: E.I. Veremey

### Invited:

10.00 Optimization approach to guidance and control of marine vehicles  
E.I. Veremey & M.V. Sotnikova

10.30 Improving performance of weather routing algorithms  
M.V. Korovkin & S.V. Pogozhev

## ***REFRESHMENT BREAK***

## Session 2: Special session on routing and automatic control of marine ships

Session Chair: E.I. Veremey

11.20 DREM-based online identification of a surface vessel dynamic model  
A.O. Vedyakova & A.A. Vedyakov

11.40 Marine ship's control fault detection, based on discrete H<sub>2</sub>-optimization  
E.I. Veremey & Y.V. Knyazkin

12.00 Stability analysis of the ship's movement along the optimal route  
I.V. Aleksandrova & A.P. Zhabko

## ***LUNCH***

**Tuesday, 10th September 2019**

**Session 3**

**Session Chair: G. Passerini**

- 14.00 Nautical tourism and regional population: the Italian case  
F. Russo & C. Rindone
- 14.20 Quantitative characteristics for ports' generations: Case study of Italian ports  
F. Russo & G. Musolino
- 14.40 Advantages of pre-clearance procedures in maritime transport  
M. Bernacchi & A. Torello
- 15.00 Regionalization of ports as a strategic leverage to improve competitiveness: a study on central Italy ports and related hinterland  
G. Pistilli, A. Campagna, L. Persia & M.R. Saporito

***REFRESHMENT BREAK***

**Session 4**

**Session Chair: S. Ricci**

- 15.50 Cost effective marine exhaust abatement for NO<sub>x</sub>, SO<sub>x</sub> and soot  
R.G. Richardson
- 16.10 A preliminary cost-effectiveness analysis of the measures put in place by EU member states to implement the directive on reduction of sulphur content in fuels used by ships  
F. Rotoli, G. Calcagno, S. Alda, M. Garcia Horrillo, S. Ricci & L. Rizzetto
- 16.30 A multi-source communication gateway and an advanced visualization interface for maritime surveillance systems based on the Inter-VTS Exchange Format Service  
E. Ouzounoglou, M. Koutsokeras, P. Boye, A. Ambiehl, D. Gravelat, L. Karagiannidis, E. Sdongos, F. Lamole & A. Amditis
- 16.50 Port risk assessment in container terminals : the case of Tunisia  
S. Sihem & N. Robert

***END OF DAY 1***

**Wednesday, 11th September 2019**

**Session 5: Special Session on responsible and sustainable port innovation and development along the 21st century maritime silk road**

**Session Chair: W. Ravesteijn**

- Invited:**
- 09.00 Cultivating a friendly attitude: The master program of "One Belt One Road", think-tank for international students, at Harbin Institute of Technology  
W. Dai, W. Ravesteijn & J. Mi
- 09.30 The Chinese road to responsible innovation: constructing a green port in Dalian  
P. Yan & W. Ravesteijn
- 09.50 The Dalian port cluster: spatial practice of the One Belt One Road initiative  
P. Zhu & C. Hein
- 10.10 Sustainable port development based on the blue economy framework in China: Qingdao Port as an example  
Y. Zhang & W. Ravesteijn

***REFRESHMENT BREAK***

**Session 6**

**Session Chair: G. Zappala**

- Invited:**
- 11.00 Improvement of terminals workability placed along the inner side of port vertical breakwaters by means of recurved parapet walls  
P. De Girolamo, M. Castellino & A. Romano
- 11.30 Wind modeling for large container vessels : a critical review of the calculation procedure  
T. Van Zwijnsvoorde, L. Donatini, W. Van Hoydonck & E. Lataire
- 11.50 How port security has to evolve to address the cyber-physical security threat: lessons from the SAURON project  
N.P.H Adams, R.J. Chisnall, C. Pickering & S. Schauer
- 12.10 Management and infrastructures in a maritime coal terminal: a decision making methodology  
C. Marinacci, S. Ricci, L. Rizzetto & M.E. Lopez Lambas

***LUNCH***

Wednesday, 11th September 2019

**Session 7**

**Session Chair: P. De Girolamo**

**Invited:**

- 14.00 Using solar splash competition to train the new generation of maritime engineers for solar power use  
P. Vorobieff & J. Lehr
- 14.30 Influence of oil prices in dynamic positioning training  
Z. Sanchez-Varela, D. Boullosa-Falces, J.L. Larrabe-Barrena & M.A. Gomez-Solaeche
- 14.50 Maritime education in the age of autonomy  
R. Kidd & E. McCarthy
- 15.10 Small and medium ports' activities modelling: introduction to the Pixel Approach  
E. Simon, C. Garnier, I. Lacalle, J. Pita Costa & C.E. Palau

***REFRESHMENT BREAK***

**Session 8: Joint session with Coastal Cities 2019**

**Session Chair: G. Passerini**

**Invited:**

- 16.00 Ports structural and operational benchmark: methodology and application to Mediterranean basin  
C. Marinacci, R.A. Polo, S. Ricci & L. Rizzetto
- 16.30 Maritime environmental performance indices: useful tools for the evaluation of the transport supplier environmental performance?  
A. Christodoulou
- 16.50 Safeguarding marine protected areas in the growing Mediterranean blue economy - recommendations for the maritime transport sector  
M. Randone, M. Bocci, C. Castellani, C. Laurent & C. Piante

***END OF DAY 2***

***CONFERENCE DINNER***—Please check the notice board or ask Conference Coordinator for more information

Thursday, 12th September 2019

**Session 9**

**Session Chair: P. Vorobieff**

- 09.00 **Invited:**  
Air pollution in the Ancona harbour  
L. Fileni, E. Mancinelli, M. Morichetti, G. Passerini, U. Rizza & S. Virgili
- 09.30 **Invited:**  
Just-In-Time rail shuttle service feasibility study at the port of Valencia  
L. Saez-Carramolino, A. Sanchez-Perez, C. Perez-Cervera & S. Furio-Prunonosa
- 10.00 **Invited:**  
Integrated observing system supporting Civitavecchia port development  
M. Marcelli, S. Bonamano, M. Boschi, C. Burgio, V. Cafaro, G. Caporale,  
G. Caruso, G. Fersini, A. Madonia, E. Mancini, D. Piazzolla, V. Piermattei,  
S. Scanu & G. Zappala

***REFRESHMENT BREAK***

**Session 10**

**Session Chair: S. Ricci**

- 11.00 River Information Services Enterprise (RISE): enhancing U.S. inland waterway operations through information sharing  
J. Celano & B. Tetreault
- 11.20 Global soybean trade, supply chain and tariffs  
C. Guan, S. Yahalom, L. Germanakos, S. LaPage & B. McKeever
- 11.40 Modelling and optimization of indigenous boat building operations in Nigeria's Niger Delta  
I.C. Nze, A.K. Oke, G.N. Okeudo & N.J. Nze

**CLOSURE OF MARITIME TRANSPORT 2019**

We hope you have enjoyed the conference and look forward to seeing you at the next meeting in the series, have a safe and pleasant journey home.