

Program
4th International scientific-practical conference
«Simulation and complex modelling in marine engineering and marine
transporting systems»
(SCM MEMTS-2017)

28 June

09.50 – 10.20. Registration of participants.

10.20 – 10.30. Conference opening.

Opening address. *Yusupov R. M. Correspondent member of RAS, Dr. Eng., Professor, Director, St. Petersburg Institute for Informatics and Automation of the RAS (SPIIRAS), President of NP «National Simulation Society», Saint-Petersburg.*

Reports of participants

1. 10.30 - 10.50

Prospects of development of the specialised software for modelling of processes of functioning of ship-building manufactures and the analysis of feasibility of production programs. *Plotnikov A.M., Dolmatov M.A., JSC «Shipbuilding & Shiprepair Technology Center», Saint-Petersburg, Fedotov M.V., Deviatkov T.V., Institute of perspective researches of Academy of Sciences of Republic Tatarstan, Kazan.*

2. 10.50 - 11.10

Investigation and optimization of offshore installation supply processes by means of simulation by the example of logistic-technological system of «Prirazlomnaya» platform. *Topaj A.G., Zaykin D.A., Kondratenko A.A., Kosorotov A.V., Krestianzev A.B., Tarovik O.V., Krylov State Research Centre, Saint-Petersburg.*

3. 11.10 - 11.30

Simulation modeling of inventory management. *Lukinskiy V.S., Panova Y.N., St.Petersburg School of Economics and Management, Saint Petersburg.*

4. 11.30 - 11.50

Modeling quality automation processes the management of complex marine systems. *Karpov A.E., Kuznetsov Naval Academy, Saint Petersburg.*

5. 11.50 - 12.10

The complex approach to the analysis of projects of ship armature on the basis of the electronic ergonomic analysis in the environment of a virtual reality. *Dolmatov M.A., Galanin Yu.A., Kozlov V.A., Tumencev G.A. JSC «Shipbuilding & Shiprepair Technology Center», Saint-Petersburg.*

6. 12.10 - 12.30

System of complex modelling and optimisation of indicators of quality of functioning of the ship-building enterprise. *Dolmatov M.A., Plotnikov A.M., JSC «Shipbuilding & Shiprepair Technology Center», Sokolov B.V., Burakov V.V., Pavlov A.N., SPIIRAS, Saint-Petersburg.*

7. 12.30 - 12.50

Complex modeling digital information – controlling systems fighting underwater robot. *Zhukov Yu.I., Sankt-Petersburg state sea technical university, Sankt-Petersburg.*

8. 12.50 - 13.10

Assessment of competitive ability of risk-oriented technologies of marine objects. *Alekseev A.V., Musatenko R.I., NP «IASPSS», Saint Petersburg.*

9. 13.10 - 13.30

Modelling of sea port structure dynamics and transport-logistic operation. *Aleksandr Pavlov, SPIIRAS, St. Petersburg, Russia, Dmitry Ivanov, Berlin School of Economics and Law,*

Berlin, Germany, Dmitry Pavlov, SPIIRAS, Alexey Slinko, Mozhaisky Military-Space Academy, Saint Petersburg, Russia.

10. 13.30 - 13.50

Model of route rationalization for a sea transportation based on the genetic algorithms method. *Popov G.B., Kuznetsov A.L., Admiral Makarov state University of Maritime and Inland Shipping, Saint Petersburg.*

13.50 - 14.30

Coffee-break

11. 14.30 - 14.50

A queuing theory – new possibilities. *Ryzhikov Yu.I., Mozhaisky Military-Space Academy, Saint Petersburg.*

12. 14.50 - 15.10

The modelling-focused designing of systems of automatic control in package SimInTech. *Kolotirkin I.P., «3V Service» Company, Moscow.*

13. 15.10 - 15.30

Research of characteristics of a fire in premises of a vessel with modelling use on a supercomputer. *Malykhina G.F., Guseva A.I., Nevelsky A.S., The Peter the Great St. Petersburg Polytechnic University, Saint Petersburg.*

14. 15.30 - 15.50

Consideration of spatial seasonal structure of internal wave field for complex modeling of hydrodynamics of the shelf zone. *Shishkina O.D., Federal Research Center Institute of Applied Physics RAS, Nizhny Novgorod.*

15. 15.50 - 16.10

The part, place of situational and competence centers in organization intermodal transport-logistic sea shipping operation. *Boris Sokolov, Rafael Yusupov, Alevtina Zuban, SPIIRAS, St.Petersburg, Russia, Oleg Semenov, United Institute of Informatics Problems, National Academy of Sciences of Belarus, Minsk, Belarus.*

16. 16.10 - 16.30

Monitoring of processes and information support ensure the safety of marine equipment. *Alekseev A.V., NP «IASPSS», Solovyov S.N., Kuznetsov Naval Academy, Moskalenko V.A., NP «IASPSS», Sys G.N., Ushakova N.P., Concern «RPA «Aurora», Kagansky M.A., Kuznetsov Naval Academy, Saint Petersburg.*

17. 16.30 - 16.50

Application software ARBITR for project functional safety assessment of emergency shutdown systems. *Mozhaeva I.A., Strukov A.V., JSC «SEC «Sevzapmontageautomatica», Saint Petersburg.*

18. 16.50 - 17.10

The problem of organizational and technical monitoring forecasting and lifecycle management. *Alexandrov V.L., Alekseev A.V., NP «IASPSS», Polyanichko V.V., Centre SRW «Crystal», Khodan S.V., JSC «Admiralteiskie Verfi», Saint Petersburg.*

19. 17.10 - 17.30

About imitating simulation of the process of the route of transport objects of the inland waterway system in St. Petersburg. *Lukomskaya O.Y., Solomenko Institute of Transport Problems of RAS, Saint Petersburg.*

20. 17.30 - 17.50

The use of simulation modeling to forecast the risk of exploitation of marine oil coolers subject to contamination of their surface. *Medvedev V.V., Lakiza M.V., Sankt-Petersburg state*

marine technical university of Saint-Petersburg, Saint Petersburg.

17.50 - 18.00

Final discussion.

Conference closing.

Bench reports without performance

1. A systematic analysis of the competitive ability and prospects of development of marine infrastructure. *Bobrovych V.Y., Concern «RPA «Aurora», Alekseev A.V., Antipov V.V., Smolnikov A.V., NP «IASPSS», Saint-Petersburg.*
2. Imitating modelling and the analysis of functioning of the hull processing shop of the ship-building enterprise with use of the AnyLogic language. *Kolosov A.M., Tolstyakova T.N., St.Petersburg School of Economics and Management, Saint-Petersburg.*
3. Model of cargo consolidation in a hinterland of a sea port based on the method of hierachical clustering. *Kuznetsov A.L., Popov G.B., Admiral Makarov state University of Maritime and Inland Shipping, Saint Petersburg.*
4. Water transport during the fourth industrial revolution. *Malygin I.G., Komashinskiy V.I., Korolev O.A., Lukomskaya O.Y., Solomenko Institute of Transport Problems of RAS, Saint Petersburg.*
5. Proems of creation of modelling complexes of operative level. *Pivchuk A.S., Gagarina A.P., Kuznetsov Naval Academy, Saint Petersburg.*
6. The practice of systems implementation of organizational and technical monitoring, forecasting and project management structure and quality life cycle of object marine engineering and infrastructure. *Polyanichko V.V., Centre SRW «Crystal», Alekseev A.V., NP «IASPSS», Saint-Petersburg.*
7. Modelling of creation processes of the condition monitoring automated system of courts movement in the local water area. *Sokolov B.V., Nazarov D.I., SPIIRAS, Palitsin V.A., State University of Aerospace Instrumentation, Saint-Petersburg.*
8. Multiple-model description and algorithms of ship-building manufactory scheduling. *Boris Sokolov, Semyon Potryasaev, SPIIRAS, St. Petersburg, Russia, Yuri A. Merkurjev, Riga Technical University, Riga, Latvia.*
9. The transportations predicted volumes mastering probability assessment on the joint of sea port-railway by imitating modelling method. *Timchenko V.S., Solomenko Institute of Transport Problems of the RAS, Saint Petersburg.*
10. Computer-aided design of ships as a tool to manage risks to the health of the crew. *Voronov V.V., Bogdanov A.A., Rozhin K.Y., Kuznetsov Naval Academy, Saint-Petersburg.*

Conference organising committee