

**THE TIME-LIMIT OF SEMINAR  
«ROBOTICS. VIEW INTO FUTURE»**

<b>March 9, 2010, Tuesday</b>		
<b>09:00 – 20:00</b>	Transfer, Accommodation	
<b>March 10, 2010, Wednesday</b>		
<b>10:00 – 14:00</b>	Transfer, Accommodation, Registration	Morskoy Vokzal Hotel Hall of Conference-Hall, 3 floor
<b>10:00 – 12:00</b>	Plenary Session of the Congress «Modernization and innovations. Parallel or consequent way»	Exhibition Center «LENEXPO» , Pav. № 7, Hall 7-1
<b>14:00 – 14:15</b>	Seminar Opening	Morskoy Vokzal Hotel Conference-Hall
<b>14:15 – 15:30</b>	Plenary Session	Morskoy Vokzal Hotel Conference-Hall
<b>15:30 – 15:45</b>	Break	
<b>15:45 – 18:00</b>	Plenary Session	Morskoy Vokzal Hotel Conference-Hall
<b>19:00 – 21:00</b>	A State Reception is devoted Congress Opening (by the use of invitation card)	Congress Business Centre «PetroCongress»
<b>March 11, 2010, Thursday</b>		
<b>10:00 – 11:30</b>	Sessions of Sections	Morskoy Vokzal Hotel Conference-Hall
<b>11:30 – 11:50</b>	Break	
<b>11:50 – 13:00</b>	Sessions of Sections	Morskoy Vokzal Hotel Conference-Hall
<b>13:00 – 14:00</b>	Dinner Break	
<b>14:00 – 15:40</b>	Sessions of Sections	Morskoy Vokzal Hotel Conference-Hall
<b>15:40 – 16:00</b>	Break	
<b>16:00 – 17:30</b>	Sessions of Sections	Morskoy Vokzal Hotel Conference-Hall
<b>17:30 – 18:00</b>	Seminar Closing. Sup up the work of Seminar	Morskoy Vokzal Hotel Conference-Hall
<b>18:00 – 19:00</b>	Furshet	Morskoy Vokzal Hotel Conference-Hall
<b>March 12, 2010, Friday</b>		
<b>10:00 – 18:00</b>	Visit to the «St. Petersburg Technical Fair»	Hall 7-1, Pav. № 7, Exhibition Center «LENEXPO»

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**THE PROGRAM OF SEMINAR  
«ROBOTICS. VIEW INTO FUTURE»**

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**March 10, 2010, Wednesday**

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**MORSKOY VOKZAL HOTEL, SAINT-PETERSBURG**

**14:00 – 14:15** | **Seminar Opening** | **Conference-Hall**

*Welcoming speeches to Seminar participants:*

*Oseevsky Michael, Vice-Governor of Saint-Petersburg;*

*Rudskoy Andrey, Pro-Rector for Science and Innovation activities of SPbSPU, Saint-Petersburg;*

*Lopota Vitaly, President and General Designer of the S.P. Korolev RSC Energia, Korolev, Moscow region*

**14:15 – 18:00** | **Plenary Session** | **Conference-Hall**

*Chairman:*

*Prof. Evgeny Yurevich*

*Oral presentation duration is up to 15 minutes)*

1. *Lopota V., Yurevich E.* On robotics future
2. *Chernousyko F., Gradetsky V.* Research of Motion Methods to Design Biologically Inspired Robots
3. *Kalyaev I., Sheremet I.* A military robotics: a prospection
4. *Bykov V.* Technology and equipment for experimental works in the field of nanophysics and nanoelectronics
5. *Gradetsky V.* Integration problems of nano-, micro- and macrorobots of the future

**15:30 – 15:45** | **Break** |

6. *Yuschenko A.* Human-robot: evolution of interrelation and the problem of mutual understanding
7. *Zaborovsky V., Ivanov A.* From Robotics to Robology: Qualitative Leap in Advancement of Robot Science
8. *Ignatyev M.* The necessary and sufficient conditions for nanorobots synthesis
9. *Kvasnica M.* New Ways to Reduce Energy Consumption Using Robotics

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**March 11, 2010, Thursday**

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**10:00 – 17:30** |

**Sessions of Sections**

| **Conference-Hall**

*Chairman:*

*Prof. Evgeny Yurevich*

*(Oral presentation duration is up to 10 minutes)*

1. *Zheleznyakov A.* Space robotics: Year 2050
2. *Kargov A.* Manipulation robots in cosmonautics: promising reality or science fiction
3. *Malenkov M., Konkolovich A., Kuzoro V., Halimanovich V.* System of expansion of the flexible solar battery with the telescopic mechanism
4. *Platonov A., Noskov V., Rubtsov I.* Remote & Autonomous Control for Moon Base Robots
5. *Semenov E., Knyazkov M.* Multifunction inspection robot (MIR)
6. *Shamray F., Vasiliev A., Popov A.* Implementation of robot systems in shipbuilding
7. *Zhukov Yu., Yanchenko A.* Submarine robotics in monitoring problems of marine communications
8. *Pichler A., Ankerl M., Haller M., Aigner R., Leitner Ja., Wögerer Ch.* Augmented based Human Robot Interaction for Industrial Robots with Emerging Autonomy
9. *Ignatyev M., Kushner V.* Problem of Robotized Car Development To Improve Road Safety

**11:30 – 11:50** |

**Break**

10. *Senchik K., Kirichenko V., Gryaznov N.* Integration of systems for monitoring and correction of vital functions of the human
11. *Eingorin M.* By the problem of self-reproducing robots
12. *Dudkin K.* The organization of conditioned reflex behavior is result of interaction of sensory, cognitive and control (attention and motivation) processes
13. *Moledu M., Shkodyrev V.* Multiobjective Optimization of Decision Making in a Team of Robots
14. *Prokopovich G.* Hierarchical control system with distributed processing of information for intelligent autonomous systems
15. *Prokopovich G.* The decentralized control method for robot group
16. *Prokopovich G., Sychev V.* Investigation of swarm robot behavior

**13:00 – 14:00** |

**Dinner Break**

17. **Derin O.** Principles of designing of systems control of robots based on evolutionary structured hierarchical artificial neural networks
18. **Derin O., Timofeev A.** Principles of designing for intelligent navigation and flying vehicle control systems
19. **Briskin E., Chernyshev V., Maloletov A. Serov V., Sharonov N.** On control of sprinkling machine with walking movers
20. **Romanov S.** Structurally functional organization of the nervous system as prototype of the controlling artificial neuron network
21. **Shiryev V.** On increasing efficiency of dynamic systems control under information insufficiency
22. **Arseniev D., Shkodyrev V.** Distributed Intelligent Systems of Industrial Automation and Control
23. **Youngsun Ryuh, Jeonil Moon, Sangmoo Lee, Jinung An, Jeonghoon Hwang** A Study on Q-learning Algorithm for Autonomous swimming of Mariculture Fish robot
24. **Nebosko E., Yakubovich V.** Adaptive and universal controllers for vehicle robot steering
25. **Gryaznov N., Kochkarev D.** Development trends and architecture ideology of sensing systems for coordinate measurements
26. **Pronin A., Sapozhnikova K., Taymanov R.** Metrological assurance of robots. Evolutional approach

15:40– 16:00

Break

27. **Kalyev I., Burikov A., Kapustyan S.** Perspectives of creation and application of biorobotic systems
28. **Sokolov E.** Bio – inspired aerial micro robots
29. **Kalyev I., Gaiduk A., Kapustyan S.** Principles of self-organizing of multirobotic systems
30. **Kapustyan S., Kulinichev R.** Intelligent systems of group control of the equipment of robotized warehouses
31. **Kapustyan S., Shapovalov I.** Organization and control of intelligent robots group with the purpose of moving a body
32. **Bogomolov V.** Modern systems for stereoscopic visualization
33. **Mikhailov B.** Robots computer video systems. Look to the future
34. **Gryazin D., Chekmarev A.** Micromechanical sensors for military applications. State of the art (by the use of foreign armed forces)
35. **Gollandtsev Yu.** Conceptual problems of robotic component manufacturing technology
36. **Haisam Amer** An implementation of Artificial Life using Java
37. **Loshitskiy P., Sharovатов V.** Perspectivity of application power membrane elements in anthropomorphic robot
38. **Filippov S., Fradkov A.** Robotics at school: problems and decisions

17:30 – 18:00 |

**Seminar Closing**

| **Conference-Hall**

*Leading: Prof. Evgeny Yurevich  
Sup up the work of Seminar*

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**Poster Contributed Paper**

| **Conference-Hall**

1. ***Kirichenko V.*** Development prospects for mechatronic technologies of micro robotic system design
2. ***Utenkova S., Malcev P.*** Generation the Mechanical Bond in Nano- and Microsystems Technique with Carbon Nanotubes Lawns
3. ***Sychev V., Prokopovich G.*** Acoustic method for spatial orientation of domestic robots
4. ***Qing Wang*** Artificial life simulation platform in Java

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**Comment:** In the Program is possible changes and accurate definition.