**CURRICULUM VITAE**
Founder and President
of Knowledge Genesis Group of Companies
.

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**Prof. Petr Skobelev (1960)** is the Founder and President of Knowledge Genesis Group of Companies (en.kg.ru) focused on developing multi-agent technology and solutions for adaptive resource management in real time. The Group includes leading company Smart Solutions Ltd (www.smartsolutions-123.ru/en) and sister-companies: Knowledge Genesis, Ltd in Moscow (Russia), Network-Centric Platforms, Ltd in Samara (Russia) and Multi-Agent Technology, Ltd in Samara (Russia), London (UK) and Helsinki (Finland).

In academic career Petr Skobelev is Doctor of Technical Sciences, Head of the "Electronic Systems" Department, Samara State Technical University, Russia, Senior Researcher at the Institute for Control of Complex Systems of the Russian Academy of Science, Professor at Samara State Aerospace University, Russia.
Results of R&D are presented in publications: https://scholar.google.com/citations?hl=en&user=54pb4j4AAAAJ and summarized in a book by G. Rzevski and P. Skobelev "Managing complexity" published by WIT Press in UK and USA in 2014 (available on Amazon.com): http://www.amazon.com/Managing-Complexity-G-Rzevski/dp/1845649362/ref=sr_1_3?s=books&ie=UTF8&qid=1396421715&sr=1-3&keywords=managing+complexity

**Field of Specialization:** Computer Science, Theory of Complex Adaptive Systems, Multi-Agent Systems and Technology, Emergent Intelligence, Guided Self-Organization, Knowledge Bases, Real-Time Resource Allocation, Scheduling and Optimization, Internet of Agents (Things, People and Documents).

## HIGHER DEGREES

- 2003: Professor degree in Multi-Agent Systems for Real-time Decision-Making in Enterprise Resource Management.
- 1986: PhD degree in Functional Programming Languages and Artificial Intelligence for Aerospace Applications.
- 1983: Graduated from Computer Science Department of Samara Aerospace University.

## DISTINCTIONS

- Member of Russian National Artificial Intelligence Association.
- Software Engineering Company "Smart Solutions" Ltd in Samara, Russia (Member of KG Group) - one of the TOP-10 most innovative and fast growing companies in Russia.
- Member of IEEE Association "Industrial Agents".
- Awarded by National Prizes for Best Company, Best Products, Best Innovations, Export Activities, etc.
- Co-Organizer of International Conference "Complex Systems" in UK and Russia.
- Invited Speaker of well-known EU conferences on multi-agent systems: HoloMAS, PAAMS, etc.

## KEY PROJECTS

- Scheduling tankers for Tankers International (UK), taxi for Addison Lee (UK), trucks for GIST (UK), etc.;
- Scheduling cargo for the International Space Station for Rocket & Space Corporation "Energia" (Russia);
- Supply chain scheduling for Lego (USA), Coca-Cola (Germany), SUEK and GasPromNeft (Russia);
- Inter-city long-distance Full-Truck-Load (FTL) cargo scheduling and in-city real-time Less-Than-Truck Load (LTL) scheduling for a number of Russian transportation companies;

- Agile workshop scheduling for “Axion”, “AviaAgregat” and “Kuznetsov” (one of the largest air jet plants in Russia) as well as for Airbus and Iacobucci factories (under EU FP7 Program “Factory of Future”);
- Passenger and freight railway transport scheduling, including high-speed Sapsan trains between Moscow and Saint-Petersburg, Saint-Petersburg – Finland and also Baikal-Amur Mainline in Siberia;
- Managing a swarm of orbital space satellites for Earth remote sensing (video on the product: https://www.youtube.com/watch?v=r7vKK9XnTCE), etc.

**SELECTED PUBLICATIONS**


1. G. Rzevski, Petr Skobelev. “Managing complexity”, WIT Press, London-Boston. – 2014. – 156 p
2. Mařík, V., Lastra, J.L.M., P. Skobelev “Lecture Notes in Computer Science: Preface”, LNAI 8062. Springer-Verlag, Berlin Heidelberg, 2013. – http://www.springerlink.com/content/978-3-642-40089-6/. DOI: 10.1007/978-3-642-40090-2.
3. I. Mayorov, P. Skobelev “Towards thermodynamics of real time scheduling”, International Journal of Design & Nature and Ecodynamics. – WIT Press, vol. 10 (2015), is. 3. – pp. 213-223. DOI 10.2495/DNE-V10-N3-213-223.
4. I Belokonov, E. Simonova, P. Skobelev, V. Travin, A. Zhilyaev, “Multi-agent planning of the network traffic between nanosatellites and ground stations”, Procedia Engineering: Scientific and Technological Experiments on Automatic Space Vehicles and Small Satellites, 104 (2015), Elsevier. – P. 118-130.
5. Ivashenko A., Khamits I., P. Skobelev, Sychova M., “Multi-Agent System for Scheduling of Flight Program, Cargo Flow and Resources of International Space Station”, 5-th International Conference on Industrial Applications of Holonic and Multi-Agent Systems (HoloMAS 2011). –Springer Verlag. – Volume 6867 LNAI. – 2011, p. 165 – 174. DOI: 10.1007/978-3-642-23181-0_16.
6. Bjorn Madsen, George Rzevski, P. Skobelev, AlexanderTsarev, “Real-time Multi-Agent Forecasting & Replenishment Solution for LEGOs Branded Retail Outlets”, Proceedings of the 13th ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2012), August 8-10, 2012, Kyoto, Japan. – pp. 451-456.
7. Ivan Tyrin, Andrey Vylegzhanin, Elina Kolbova, Oleg Kuznetzov, Petr Skobelev, Alexander Tsarev, Yaroslav Shepilov, “Multi-Agent System “Smart Factory” for Real-time Workshop Management: Results of Design & Implementation for IzhevskAxion-Holding Factory”, Proceedings of the 2012 IEEE 17th International Conference on Emerging Technologies & Factory Automation (ETFA 2012), September 17-22, 2012, Krakow, Poland. – 4 pp. – DOI 10.1109/ETFA.2012.6489694.
8. Oleg Granichin, Alexander Lada, Igor Mayorov, Petr Skobelev, Alexander Tsarev, “Comparing adaptive and non-adaptive models of cargo transportation in multi-agent system for real time truck scheduling”, Proceedings of the 4th International Conference on Evolutionary Computation Theory and Applications (ECTA’2012), October 5-7, 2012, Barcelona, Spain. – SciTePress, 2012. – pp. 282-285. DOI 10.5220/0004148602820285.
9. Ivan Babanin, Ivan Pustovoj, Elena Kleimenova, Sergey Kozhevnikov, Elena Simonova, Petr Skobelev, Alexander Tsarev, “Multi-agent solution for ‘8 QUEENS’ puzzle”, Proceedings of the 4th International Conference on Evolutionary Computation Theory and Applications (ECTA’2012), October 5-7, 2012, Barcelona, Spain. – SciTePress, 2012. – pp. 278-281. DOI 10.5220/0004148502780281.
10. Denis Budaev, Vladimir Laruhin, Evgeny Levin, Igor Mayorov, Petr Skobelev “Multi-Agent Platform for Designing Real Time Adaptive Scheduling Systems”, Proceedings of the 12th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS 2014), 4-6 June, 2014,Salamanca, Spain. 2014. –Lecture Notes in Computer Science series, vol. 8473.–Spinger, Switzerland. – P. 383-386. ISBN 978-3-319-07550-1.
11. Andrey Glaschenko, Anton Ivaschenko, George Rzevski, Petr Skobelev “Multi-agent real time scheduling system for taxi companies” - 8th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2009), Budapest, Hungary, 2009/5/10, p. 29-36.
12. George Rzevski, Petr Skobelev “Emergent intelligence in large scale multi-agent systems”, International Journal of Education and Information Technology, 2007, Volume 1, Issue 2, pp. 64-71.