



**Prof. Dr-Eng. Boris Sokolov**, born in 1951, is a Head of Laboratory of Information Technologies in System Analysis and Modeling of Saint Petersburg Institute of Informatics and Automation of the Russian Academy of Sciences (SPIIRAS). From 1966 to 1999, he has developed his military career at the A.F. Mozaisky Academy in Leningrad/St Petersburg, from a cadet to a colonel. Since 1999 till 2000 he has been a professor in St.Petersburg Technical University, 2000–2003 he is a professor of St Petersburg State University of Aerospace Instrumentation, 1999–2005 he is a leader researcher of SPIIRAS, 2006–2017 he is a Deputy Director for research of SPIIRAS, since 2017 Prof. Sokolov is a Chief Researcher. . Winner of the scholarship of the President of the Russian Federation "For outstanding achievements in the field of weapons, military and special equipment" (2009-2011). Laureate of the Prize of the Government of the Russian Federation for outstanding achievements in the field of higher and secondary vocational education for 2009, Laureate of the Prize of the Government of the Russian Federation in the field of science and technology (2013, 2022).

He received his M.Sc., PhD, Dr. Sc. Eng. and Prof. in 1974, 1983, 1993 and 1994 respectively. Prof. B. Sokolov is the honored scientist since 2006. He is an outstanding scientist, founder of a new scientific direction in the field of automating the management processes of complex technical objects (CTO) associated with complex analysis and management of processes in critical applications.

The research interests of Prof. B. Sokolov are as follows: basic and applied research in integrated modelling, simulation and mathematical methods in scientific research, optimal control theory, and mathematical models and methods of decision-making support in complex technical-organizational systems under uncertainties and multi-criteria, implementations of RFID technology and mobile IT in supply chain management processes. Over the past five years, Professor Sokolov B.V. revealed and intensively developed original applied theory of structural dynamics management, reliability and validity of conclusions and developments, confirmed by numerous publications, implementations and testing at the All-Russian and international levels. The research results, conducted by him personally and his students, have received a wide and diverse practical implementation both in scientific organizations and enterprises of the defense industry involved in the development of rocket and space technology (RRI Space Instrument Engineering, SPA Energia, Central Research Institute MASH, SPU "ELAS", SPA Applied Mechanics), and in military units and leading universities and universities in the creation and operation of special software and mathematics software planning "GLONASS", "Globus", "Stroy" , "Buran". Professor Sokolov B.V. and representatives of his scientific school developed analytical methods, methods, algorithms and techniques for integrated automated planning of space tools and their structural dynamics management, which are resolved with minimal resources.

From 1999 to the present, a number of projects funded by the Russian Academy of Sciences, the Russian Foundation for Basic Research, the Russian Science Foundation, the Applied Problems Section of the Presidium of the Russian Academy of Sciences, International Organizations (EORD, CRDF) and distributed to improvement and automation of processes with complex objects in critical applications (astronautics, nuclear industry, information security). International and All-Russian Recognition of Merit B.V. Sokolov Donations in their participation in projects of ISTC and CRDF funds, in repeated involvement of Professor Sokolov B.V. as an expert in evaluating the quality of projects, competitions of the Russian Foundation for Basic Research, the Foundation for Assistance to the Development of Small Enterprises in the Scientific and Technical Sphere.

Sokolov B.V. conducts active teaching, working since 1982, a teacher, and later (from 1992 to 1998) head of the department at the Military Space Academy. A.F. Mozhaisky, since 1999 is a professor of St. Petersburg SUAI. Several original courses of lectures on integrated modeling of the management processes of the structural dynamics of complex objects in various subject areas (cosmonautics, management, urban economy) were imported and read. He prepared 14 candidates of technical sciences and 5 doctors of technical sciences. Professor B.V. Sokolov conducts a great scientific and organizational work. He is a member of the academic council of the institute, two dissertation councils, and has repeatedly been a member of the program committees of all Russian and international conferences. Member of the editorial boards of the journals "News of Universities. Instrumentation", "Information Technologies", "Informatization and Communications", "Reliability", "Questions of Radio Electronics", full member of the Cosmonautics Federation.

Professor Sokolov B.V. is the author of 5 textbooks, 7 monographs, more than 700 scientific articles, works and reports, some of which were published in various academic journals, including European Journal of Operational Research, International Journal of Manufacturing Technology and Management, Journal of Computer and Systems Sciences International, Differential Equations, and Automation and Remote Control.

He is Member of Doctoral Degrees Granting Committee in SPIIRAS, Member of Advisory Committee of International Journal of Instrumentation; and International Journal of Informational Technology, Member of Astronautics Federation, Academy of Navigation and Motion Control.