Appl. Comput. Math., Vol.25, No.1, 2026, pp.197-198

# Vladimir Borisovich Larin - 90



February 3, 2026, would have marked the 90th birthday of Vladimir Borisovich Larin, an outstanding Soviet and Ukrainian scientist in the fields of mechanics and control theory, Doctor of Physical and Mathematical Sciences, Professor, and laureate of the State Prize of the Ukrainian SSR in Science and Technology.

Vladimir Borisovich Larin was born on February 3, 1936, in Kryvyi Rih, Dnipropetrovsk region. He graduated from the Kyiv Polytechnic Institute in 1957. After completing his studies, he worked at a defense enterprise in the city of Mykolaiv, where he gained valuable experience in solving complex applied problems related to dynamics, stability, and control of engineering systems.

From 1960 to 1963, Vladimir Borisovich Larin worked at the Institute of Mechanics of the Academy of Sciences of the Ukrainian SSR (Kyiv), where he headed the Department of Dynamics of Complex Systems. During this period, his scientific interests focused on the synthesis of control systems, the dynamics of multi-dimensional mechanical systems, and the application of advanced mathematical methods in mechanics. From 1963 to 1989, his scientific activity was closely associated with the Institute of Mathematics of the Academy of Sciences of the Ukrainian SSR. Since 1981, he served as the Head of the Laboratory of Mechanics of Robotic Systems. In 1990, Larin returned to the Institute of Mechanics of the Academy of Sciences of the Ukrainian SSR (now with its current name the S.P. Timoshenko Institute of Mechanics of the National Academy of Sciences of Ukraine), where he continued his active scientific work as a Leading Research Scientist in the Department of Dynamics of Complex Systems.

His scientific research covered a wide range of fundamental and applied problems in applied mathematics, theoretical mechanics, control theory, and robotics. He made significant contributions to spectral methods for the synthesis of linear feedback systems, optimization of linear time-invariant control systems, statistical problems of vibration protection, and the synthesis of optimal regulators. A substantial part of his work was devoted to $H_2$ - optimization and state-space methods in optimal control design. A special place in his scientific legacy is occupied by his research on the control of walking machines and robotic systems. His works in this field played an important role in the formation of the theoretical foundations of dynamics and control of legged mechanisms and influenced sub-sequent studies both in Ukraine and internationally. He is the author and co-author of many fundamental scientific publications.

In addition to his research activities, Vladimir Borisovich Larin made a major contribution to scientific organization and international cooperation. He was one of the founders of the International Journal Applied and Computational Mathematics and the International Conference

on Control Optimization with Industrial Applications. From the first day of the journals establishment, he served as its Co-Editor, making sustained efforts to enhance its scientific quality, visibility, and international reputation.

Vladimir Borisovich Larin passed away on February 28, 2022, after a long illness. His scientific heritage, publications, and students continue to develop and advance the fields of applied mathematics, mechanics, and control theory to which he devoted his life. His contributions occupy a worthy place in the history of modern science and will be always remembered with deep respect by colleagues and students worldwide.