

Our Hero of the Anniversary Ivan Vasilievich Sergienko

In August a scientific community celebrates the jubilee of Ivan Vasilievich Sergienko the prominent scientists in the sphere of theory and practice of optimization methods application, Academician of NAS of Ukraine, the general director of Cybernetic center of NAS of Ukraine, the director of V.M. Glushkov Institute of Cybernetics, the member of editorial board of our journal.

In 1954 on leaving with a golden medal the secondary school I.V. Sergienko entered the mechanical and mathematical faculty of Kiev T.G. Shevchenko State University. After graduation from university in 1959 and during all his life I.V. Sergienko works at the Institute of Cybernetics of NAS of Ukraine. In 1964 he defended his PhD thesis and in 1972 — doctorate dissertation. The scientist's scientific interests were formed under the influences of his teachers — Academicians V.M. Glushkov, A.A. Dorodnitsyn, V.S. Mikhalevich, Corresponding member of NAS of Ukraine E.L. Yushchenko.

In 1978 I.V. Sergienko was elected a Corresponding member, and in 1988 — Academician of AS of USSR. Since 1982 to 1994 I.V. Sergienko was Deputy director and since 1995 he has been Director of V.M. Glushkov Institute of Cybernetics of NAS of Ukraine.

It was the destiny for the scientist to place himself at the head of Institute at the most difficult time for both the entire science of Ukraine and the Institute staff, and he perfectly managed with such challenging responsibility. Since 1995 to 2009 I.V. Sergienko was Academician-secretary of Informatics department of NAS of Ukraine, the Member of Presidium of NAS of Ukraine, since 2009 — advisor of Presidium of NAS of Ukraine.

In the 90-s of the past century under the leadership of I.V. Sergienko and active support of Presidium of NAS of Ukraine there was implemented V.M. Glushkov's idea on creating Cybernetic center on the



basis of Institute of Cybernetics of NAS of Ukraine. Since 1995 he has been the general director of Cybernetic center of NAS of Ukraine.

I.V. Sergienko headed the creation of a scientific school on a computer mathematics and intellectual information technologies. His theoretical investigations basically deal with development of mathematical models and optimization methods, in particular, a discrete optimization, solving some current problems of computational and applied mathematics, the development of programming theory and creation of computer technologies which are the foundation for solving problems of transcomputational complexity.

The scientist's scientific activity started with investigating problems of discrete optimization. He suggested a new approach to constructing the algorithms for approximate solution of such problems, created a new algorithmic scheme which allowed one to construct a family of new algorithms for solving multiextremal problems. These algorithms played an important role in developing applications packages of series DISPRO, DISNEL when creating computer technologies for solving discrete optimization problems. Later the proposed method received significant development.

In 1964–1968 under leadership of I.V. Sergienko in USSR there was constructed one of the first automated control systems (ACS) “Galvanik” designed for real-time optimal control of details galvanization process. The system was implemented at Kiev factory “Arsenal” and then applied at some other enterprises of USSR, was demonstrated at international exhibitions in Moscow, Poland, Germany and awarded golden medals.

In the 1965–80s Institute of Cybernetics of NAS of Ukraine laid foundations of Ukrainian school of optimization. At the Institute this direction was being developed by a group of scientists headed by V.S. Mikhalevich. The obtained results were recognized worldwide, and the authors of these works, including I.V. Sergienko, in 1981 were awarded the State prize of USSR in the field of science and engineering.

I.V. Sergienko is the president of Ukrainian Federation of Informatics (UFI) which is the member of International organization CEPIS, the chairman of National Committee of Ukraine on informatics, the editor in chief of international scientific and theoretical journal “Cybernetics and systems analysis”, the executive editor of collections of scientific papers “Cybernetics and computation engineering”, “Computer mathematics”, the member of editorial board of our journal as well as some other authoritative scientific publications.

I.V. Sergienko successfully combines the scientific and scientific-organizational activities with pedagogical work: he is a professor at computational mathematics department at Kiev Taras Shevchenko National University, and currently is the head of its branch at V.M. Glushkov Institute of Cybernetics of NAS of Ukraine. Since 1994 he has been the head of the base department of theoretical cybernetics and optimal control methods of Moscow physical and technical institute as the branch of the Institute of Cybernetics (since 2008 — the department of Physical and Technical, Scientific and Educational Center of NAS of Ukraine), he is the head of the department branch of automated systems of information processing and control of National Technical University of Ukraine “KPI”.

I.V. Sergienko is Honorable Scientist of Ukraine (1991), Laureate of State premiums in the field of science and engineering: Ukraine (1972, 1993, 1999, 2005), USSR (1981), Soviet of Ministers of USSR (1982), Laureate of premiums of V.M. Glushkov (1986), S.A. Lebedev (1997), V.S. Mikhalevich (2002), A.A. Dorodnitsyn (2007) of NAS of Ukraine. He is the holder of order “For merits” (III degree (1996), II degree (1998), I degree (2007), is awarded the order “Friendship of Peoples” (1983).

Over the years the most difficult for our journal when it was not clear whether the journal will exist I.V. Sergienko did a lot for the journal not only to remain but also increase its volume and strengthen its prestige. I.V. Sergienko is one of the most active authors of our journal.

Ivan Vasilievich is a person of fine spiritual qualities, he is democratic in the broadest sense, considerate to young scientists, always ready to lend a hand and give an advice to employees and colleges.

Dear Ivan Vasilievich!

You are meeting your jubilee full of strength and creative ideas. From the bottom of the heart we wish you good health, happiness, welfare and creative success.

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