

MANSIMOV KAMIL BAYRAMALI oğlu
(to the 50th anniversary)



The doctor of physical-mathematical sciences, professor, the head of the chair "Mathematical cybernetics" of the Baku State University, senior researcher of the Institute of Cybernetics of the National Academy of Sciences of Azerbaijan Mansimov Kamil Bayramali oğlu is 50. K.B. Mansimov was born on the 10th of November in 1950 in region Bilasuvar of Azerbaijan. In 1968 finishing Bilasuvar Nizami secondary school he entered mechanical-mathematical faculty of the Azerbaijan State University and was directed to the Institute of Cybernetics of the NAS of Azerbaijan. There he passed the way from the senior laboratory assistant to the senior researcher.

In 1979 K.B. Mansimov defended his candidate dissertation on the subject "To the theory of necessary conditions of the optimality in some systems with the optimality". His scientific leaders were the cor.member of the AS of Azerbaijan G.E. Allahversiyev and prof. M.A. Yagubov.

In 1992 he was elected a docent of the chair "The investigation of the operators and mathematical modelling" of the Baku University.

In 1994 K.B. Mansimov defended his doctoral dissertation on the speciality "Mathematical cybernetics" on the subject "The investigation of special processes in optimal control" problems.

Since 1995 till 1998 he worked as a professor at the chair "The investigation of the operations and mathematical modelling".

From 1998 K.B. Mansimov works a head of the chair "Mathematical cybernetics" of Baku State University.

K.B. Mansimov is an admitted specialist in the field of cybernetics.

In K.B. Mansimov's works it is developed a new mathematical apparatus for getting necessary conditions of optimality of the second order for the sufficiently wide class of problems of the control by discrete and continuous time. The worked out mathematical apparatus allowed him not only to develop and increase non-trivially the early known results, but to get sufficiently wide class of problems of control by the discrete and continuous time, qualitative new necessary conditions of the optimality of special control, going out of the frames of simple analogies with the ordinary dynamical systems K.B. Mansimov has got multipointed necessary conditions of the optimality in the sense of Pontryagin's maximum principle quasi-special second order control and

special- in classical sense control in the systems with delay (both with discrete and with continuous time) in the canonic systems of the first order in the Goursat-Darboux's systems.

Using the series of getting results K.B. Mansimov constructed the individual theorems of existence of optimal controls of optimal controls of Gabasov Mardukhovich type in the systems with changeable delay and the Goursat-Darboux systems, which unlike the traditional theorems on the existence of optimal solutions are sensitive to the parameter of the problem.

K.B. Mansimov is the first who investigated the special case in the discrete systems with delay and in the discrete two parametric systems and derived necessary conditions of the second order optimality which have no analogy. He could get the new traditional character integral necessary conditions of optimality of the second order in the complex dynamic systems in the presence of functional restrictions of the equalities and inequalities type.

The developed method allowed him to unify the process of getting necessary conditions of optimality of special controls for the wide class control problems by solving control problems for different technological processes, in the theory of cellular machine and etc. Many parametrics particularly two parametric systems of type of Fornazini and Markozini, Guban and Rossera type are widely used.

K.B. Mansimov first got enough conditions of optimality of Krotov's type for two classes of discrete two parametric systems.

K.B. Mansimov together with the well-known specialists in the field of theory of optimal processes and its applications professor R.F. Gabasov and corr.member NAN of Byelorussia F.M. Kirilova wrote a review dedicated to the theory of the necessary conditions of optimality of the high order in the compound dynamical systems.

In Mansimov's works theoretical positions are developed, the totality of which can be qualified as the new great achievement in the development of the theory of necessary conditions of optimality of special controls for problems of control by the systems with concentrated and distributed parameters.

Now K.B. Mansimov's students develop his results in various directions.

The results obtained by Mansimov can be used at the solution of problem by analytical and numerical methods, chemical reactors, processes of drying sorption, desorption of gas and etc. series of his results are used at reading of special courses.

An the base of obtained results K.B. Mansimov wrote more than hundred articles. He is an author of two monographs and one textbook. In 1995-1997 K.B. Mansimov was the member the expert commission HCC at the president of Azerbaijan Republic.

He is the chairman of the Methodical Council of applied mathematics and cybernetics faculty. The member of special council on defense of doctoral dissertation, the scientific secretary of the Methodical Council.

He gives lectures on "Mathematics", "The theory of games and research of operators", "Discrete systems" and etc.

K.B. Mansimov is kind, simple, sensitive man, principle scientist.

Professor K.B. Mansimov is in the blossom of his creative energy. We wish him next achievements in his scientific work and in his personal life.

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