THE FIFTH INTERNATIONAL CONFERENCE OF THE THEORY OF PROBABILITIES

The proceedings of the Fifth International Conference of the Theory of Probabilities, organized by the Board of Mathematical Statistics in collaboration with the Ministry of Socialist Education took place at the Braşov University, between the 1st and the 6th of September 1974.

Just as at the previous conferences, this important scientific manifestation enjoyed a large home and international participation, about one third of the participants being representatives of 14 countries, some of them with a rich tradition in the development of fundamental and applicative studies and research on the theory of probabilities and the related fields. Participating besides mathematicians were also economists and engineers who dwelt on the practical applications of the theory of probabilities.

The conference debates unfolded on three sections:

A. The theory of probabilities and applications.

B. Mathematical statistics and applications.

C. Operations Research and Mathematical Programming.

Brief papers of about 15 minutes as well as reports by outstanding personalities invited to the conference were presented in each section. Over 100 papers were presented in all, tackling in an original way, various and topical subjects. Thus, the participants in the section "The theory of probabilities and applications" approached problems on the theory of information, on the Markov and semi-Markov chains and processes, on the expectation theory, the tackling of the theory of probabilities in the light of the theory of categories.

The members of the section "Mathematical statistics and applications" presented problems on the estimation of parameters, on the generation of random variables, various applications of the dynamic series, problems on the reliability of the systems, etc. The papers presented in the section "Operations research and mathematical programming" also distinguished themselves through their theoretical and applicative content, approaching modern

themes on duality in mathematical programming (linear and non-linear), stochastic programming, stochastic games, conexity, linear programming in whole numbers, minimax conditions, models of economic growth, etc.

Worth mentioning among the foreign personalities who participated with papers are C. L. Mangasarian (the U.S.A.), V. Goldstein (the U.S.S.R.), E. Cinlar (the U.S.A.), A. Orden (the U.S.A.), A. Prékopa (Hungary), E. L. Aparo (Italy), and others.

Presenting papers from our country were personalities with a well deserved international fame, among whom are: academician O. Onicescu, academician Gh. Mihoc, Professor, dr. M. Iosifescu, dr. B. Bereanu, dr. I. Cuculescu, dr. V. Istrătescu, M. Dragomirescu, professor T. Postelnicu, dr. I. Văduva, and others.

The research workers of the Research Laboratories of the Department of Economic Cybernetics presented in the section "Operations research and mathematical programming" a number of theoretical and applicative papers, such as: "Problems of Optimum for economic growth open models", "Necessary minimax conditions", "On stochastic programming with several objective functions", "The calculus efficiency of certain minimization methods", "Fuzzy algorithms in the optimal control of economic systems", "Methodological and technical aspects for production prognosis".

This conference has offered the possibility for a large exchange of ideas between specialists both from our country and from abroad, by discussing a vast subject-matter covering nearly all the fields of the theory of probabilities and mathematical statistics and of the operations research and its applications.

I. M. Stancu-Minasian