Second Symposium

Cybernetic Modelling of Production Processes

Within the Academy of Economic Studies

The proceedings of the Symposium "Cybernetic Modelling of Production Processes" took place in the period April 23d—25 th, within the Academy of Economic Studies, being organized by the Department of Economic Cybernetics, in collaboration with the Comission of General Systems and Cybernetics of the Academy of the Socialist Republic of Romania.

During the symposium, divided into three sections — cybernetic models and systems, optimization models and methods within the activity of enterprises, informational and information-processing systems in economy, many scientific researchers, teaching staff members and specialists from the enterprises of Bucharest and of the whole country, exposed over 100 scientific papers. These papers presented economic growth models at branch, department, central, territorial level — relating to net value and physical production, investments, intensive utilization of machines, equipments and aggregates, technical-material supply, export-import, transports, introduction of technical progress and of new technologies, increase of labour productivity, with reference to the new economic-financial mechanism.

The papers referred also to the drawing up of models, using methods and techniques of mathematical statistics, of mathematical programming, economy and prognosis, theory of graphs, queueing theory; and they referred as well to the algorithms for solving the above mentioned problems by means of electronic computers.

Papers were also presented connected to methods and techniques of designing, organizing, exploiting economic informational and information-processing systems (branch information-processing systems at the level of enterprise, applications, generalized program packs, data bases etc.)

A round-table conference was organized within the symposium, where problems connected to the industrial process cybernetics, cybernetic aspects of management, role of information-processsing systems and of using computers in production and economic administration, were debated upon.

The symposium made possible a wide exchange of opinions of the specialists, in applying models and methods of economic cybernetics; this exchange was characterized by the high scientific level of the papers, by the conclusions which derived from the afferent discussions.

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