In Anticipation of the 3rd World Congress of General Systems and Cybernetics

As it has already been announced, an international scientific event will take place in Bucharest, from August 25th-29th, 1975, with the participation of a big number of scientists in all fields of general systems and cybernetics. In fact, the area of the problems to be tackled is extremely vast, which can be seen also from the seven sections of the Congress. In the following, we want to give readers some details, which we consider interesting, concerning the actions occasioned by the Congress.

At present, we can appreciate that the proceedings will be attended by over 300 scientists and researchers in the above-mentioned fields, about 200 of whom from abroad and over 100 from our country, totalling 40 participating countries among which we mention: the Soviet Union, the U.S.A., Great Britain, France, Japan, Poland, Brasil, Italy, the German Democratic Republic, Holland, Yugoslavia, Hungary, Turkey, Canada, etc.

Most of the reports announced from abroad are from Great Britain, the U.S.A., Hungary, France, Italy, between 15 and 30 reports.

Among the most requested sections for the presentation of papers, we mention Economic Cybernetics (56), Cybernetic Systems and Models (52), Artificial Intelligence (51). These papers will be presented during five sessions for each section and a meeting of specialists within a round table conference and of an open Forum is also envisaged, within which an exchange of ideas and conceptions with the audience will be carried out.

We give some titles of the papers which we believe will arouse particular interest, without exhausting, however, all that can be presented and of course appreciated within the congress debates.

The Cybernetics of Economic Systems Section:

— *Considerations on the Cybernetic Model of a New International Economic Order* — *Romania*
— *Direct and Inverse Feed-back in the Dynamics of Inflation* — *U.S.A.*
— *The Information System in Planning in a Cybernetic Conception* — *Romania*
— *The Interdependence of Measurable and Nonmeasurable Economic and Non-Economic Factors in the Analysis of Development* — *Yugoslavia*
— *Economic Growth Modelling in the Conception of the Theory of Cybernetic Systems* — *Romania*
— *Feed-back Models of Price Policies in the Monopolistic Competition* — *Germany*
— *The Systemic Analysis of Social Affairs and the Process of Coordination with Self-Management* — *Yugoslavia*
— *Structural Modelling-A Help for the Cybernetic Study of Evolutions and of Conflicts in a Complex System* — *France*

The Cybernetic Systems and Models Section

— *Delayed Linear Feed-back in the Problem of the Minimum Time* — *Romania*
— *The Use of Non-Classical Models in Establishing the Condition of the Real System Based on Measurement Data* — *U.S.S.R.*
— *Systems and Societies* — *Romania*
— *Micro, Macro, Messo and Multi Modelling* — *Sweden*
— *Results in the Theory of Fuzzy Systems* — *Romania*
— *The Synthesis of Multivariable Systems in Falls; Algebraic and Mechanical Properties* — *Belgium*
— *For a Semiotic Approach to Cybernetics* — *Romania*
— *About the Application of the Theory of Fuzzy Allocation on Modelling, the Study of Cancer* — *U.S.A.*

The Industrial Cybernetics Section

— *The Model of the Energetic System in the Chemical Industry* — *Romania*
— *The Method of Adaptive Optimization for the Systems of Graph Signals through Multitape Modelling* — *U.S.A.*
— *Conception of Achieving Optimal Management Systems with the Electronic Computer of a Technological Process with Continuous Flow* — *Romania*
— *An Approach to the Syntheses of Complex Hierarchical Systems* — *Bulgaria*

— *A Cybernetic System for the Control of Production Systems* — *Romania*
— *A Systemic Approach to Stocks Administration* — *Hungary*
— *Aspects of the Experimental Identification of Tension Adjusting System of a High Generating Set* — *Romania*
— *Markov Decision Processes Liable to Risk with the Probabilistic Observation of the Condition* — *Romania*

The Cybernetics and Environment Section

— *Cybernetics and Environment* — *Romania*
— *The Exploitation of Environment* — *Poland*
— *The Cybernetics of Hydromelioration Processes and Simulation Models* — *Romania*
— *Simulating on the Computer; A Model of Man and of His Environment* — *U.S.A.*

The Communication, Education and Informatics Section

— *An Integrated Educational System for Training Specialists in Economic Cybernetics and Informatics* — *Romania*
— *The Cybernetic Adjustment of Teaching* — *Italy*
— *On the Model of an Informatic System for the Control of Production in a Machine-building Enterprise* — *Romania*
— *Towards a Formularization of the Cybernetics of Education* — *Canada*
— *A Cybernetic Approach to the Processing of Non-numerical Data* — *Great Britain*
— *Mathematical Models in Analysing the Educational Systems* — *Romania*

The Artificial Intelligence Section

— *The Piaget and Guiaşu Models as Cybernetic Systems in the Theory of Teaching* — *Romania*
— *About Rules and Laws in the Study of Artificial Intelligence* — *Italy*
— *Cell Networks for Image Processing* — *Romania*
— *Some "Intelligent" Properties of Adaptables Surfaces* — *Great Britain*
— *The Applications of Quantitative Eliminations to the Implementation of the Proof of Mechanical Theorems* — *Brasil*
— *Teaching on a Simple Robot* — *India*

The Neuro-and- Bio-Cybernetics Section

— *Investigating Respiratory Data with the Aid of the Computer* — *Hungary*
— *A Cybernetic Model of Catechotalamic Synapses* — *Romania*

— *Probability Transformers as Formal Neuron Networks* — *Spain*
— *Simulation of Electro-encephalographic Waves* — *Romania*
— *Approach through a Mathematical Model of Mechanic-electric Transduction in Pacinian Corpuscles* — *Italy*
— *Using Optical Illusions in the Study of the Eyesight Sensorial Canal* — *Romania*
— *A New Type of Signals in the Nervous System and a Logical Mathematical Model of the Nervous Network* — *U.S.S.R.*
— *Modelling the Neurons of the Cerebral Cortex* — *Spain*

In conclusion of this brief information, a few words about the other manifestations occasioned by the above Congress.

The international exhibition of computers to be organized parallel with the congress will be, in fact, the first exhibition in our country devoted to the exclusive display of computation equipment, of all that is new in the field of cybernetic machines. Several scores of producing companies among which are IBM (U.S.A.), ICL (Great Britain), Fujitsu (Japan) have announced their participation so far and the equipment produced in the friendly socialist countries as well as the products of the young Romanian industry of computers and peripheral equipment will also be displayed.

Finally, we believe that of equal interest will also be the book exhibition to be organized during the congress and at which the works in the field of cybernetics, the theory of systems and automatics, of medical cybernetics, etc. both from our country and from abroad will be presented. It is a good opportunity offered to specialists in this field of getting acquainted with all that is new, through the publications to be exhibited.

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