



### **Congratulations**

The Society “Academician Constantin Sibirschi”, which activates in Republic of Moldova under the chairmanship of the USA business man, Dr. Val Sibirschi, organizes annually the contest of most valuable works in the field of mathematics. It was the corresponding member of the Academy of Sciences of Moldova, Professor C.Gaindric who became the 2007 laureate. He was awarded by the Premium of “Academician Constantin Sibirschi” for the series of works “Mathematical models and information systems of decisions underlying in information society”.

The series consists from 42 works (2 monographs, 3 chapters in collective monographs, 13 articles in journals, 21 articles in collections, the 10 of which are abroad, 4 overviews and brochures) summarizing the following results:

- The solutions of the problems which can be formulated as general-

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ization of the problem of  $m$ -traveling salesmen are proposed. The algorithms of solution on the base of the scheme *branch and bound* and *tabu search* are proposed. An information heuristic system for calculation of transportation routes for different goods within radius of Moscow and Baku was elaborated and experimentally applied in Moldova for spare parts transportation in association Moldselhoztechnica.

- A structure of Decision Support Systems (DSS) was proposed, which permits a unified approach irrespective of the problem domain and its nature, assures their functionality and convenience in decision making process.
- Under Prof. C.Gaindric leadership and at his direct participation there were elaborated:
  - DSS for dispatcher of vehicle transport enterprise;
  - DSS for activity plan formation for transport enterprise;
  - DSS for financing and monitoring of the projects of a scientific and technical program.In these DSS the methods and algorithms for solution of the problems described in the works of the series are used.
- At present the system SonaRes for ultrasonographic diagnostics is being elaborated.

*In the problems of Information Society (IS) creation* the analysis of the process of IS development was made, corresponding indices were revealed and analyzed, concentrating henceforth on the problem of digital divide overcoming. The solutions were proposed which can serve as a draft for a future DSS, which will monitor indices of IS development, highlight strong and weak aspects, offer concrete solutions for creation of public access points in some community, starting from existing unbiassed situation. In this context:

The researches were made on the role which science, electronic culture, electronic education, electronic governance play in information

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society; system of indices of preparation for integration into information society (*e-readiness*) and those which monitor the process of digital divide overcoming (*digital divide*) were investigated also.

The problem of population providing for the nondiscriminatory access to information was examined. Its solution was argued by public Internet access points formation at schools.

Editorial board of the journal „Computer Science Journal of Moldova” congratulates heartily its colleague, Prof. Constantin Gaindric, on getting this high award.

*Editorial board of CSJMol*