INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE IN INFORMATICA ICI – BUCURESTI
B-dul Mareşal Averescu 8-10, Sector 1, 011455 Bucureşti

RESEARCH INSTITUTE FOR INFORMATICS
ICI – BUCHAREST

Highlights

- **First computer network at the national level (1984)**
- **Full Internet connectivity, .RO domain registered to IANA (1993)**
- **First digital library in Romania (2002)**
- **First Romanian consortium for Grid development (2002)**
- **First Algebraic oriented language and compiler for linear optimization (2004)**
- **First Romanian Grid site certified in the European Grid Infrastructure EGEE (2005)**
- **First ranked R&D Institute in 2009 by the Chamber of Commerce and Industry of Bucharest**

Brief History, Mission

BRIEF HISTORY

- The National Institute for Research and Development in Informatics – ICI Bucharest was set up in 1970. With a time-honored tradition and active participation of 43 years in the Romanian Informatics and technology, ICI represents the leading Romanian research-development and innovation institute in Information and Communications Technology in Romania.

MISSION

- Nowadays, by setting the scientific and technological priorities in the ICT sector, **ICI's mission is to support excellence in research and innovation for the development of the knowledge – based economy in Romania and for a better integration in the European research area.**

- The institute is involved in many research consortiums all over Europe and the research teams are developing international projects financed by EU (through FP7) or by other international bodies. Beside the main activity - research – the institute has a large expertise in different areas connected to ICT.

Main activities

- Research-development-innovation activities within national and international programs;
- Development of software engineering;
- Technological transfer and capitalization of the research results from the Information and Communication Technologies area;
- Development of information products and systems dedicated to different activity areas;
- Elaboration of diagnosis and prognosis studies regarding the ICT area development;
- Development, implementation and provision of information services including in computer network area;
- Collaboration in its activity area with science academies and similar institutes from other countries and with international bodies;
- Projects development as coordinator and integrator of solutions and hardware and software components;
- Publication and printing of publications from ICT area.

Research domains

- Advanced Modeling and Large-Scale Optimization for HPC
- Advanced Data Analysis and Modeling
- Content management and e-Services
- Quality and Systems Evaluation
- Operational Research
- Artificial Intelligence and Bioinformatics
- Green Energy and Sustainable Development
- E-Health and e-Inclusion
- Distributed Infrastructures, Tools and Algorithms
- BNP – National Programs Library
- Cloud Computing
- Future Internet and security

Partnerships

- **National:**
    – University of Bucharest, "Politehnica" University, Academy of Economic Studies, University of Medicine and Pharmacy "Carol Davila" Bucharest, Technical University of Cluj-Napoca, West University of Timisoara, "Lucian Blaga" University of Sibiu, "A.I Cuza" University of Iasi, "Ovidius" University of Constanţa, University of Pitesti, "Valahia" University of Targoviste, "V. Alecsandri" University of Bacău.
    – INCAS – National Institute for Aerospace Research Bucharest, IFIN – National Institute for Physics and Nuclear Engineering, Institute of

Mathematics "Simion Stoilow" of the Romanian Academy, Library of Romanian Academy, etc.

🔲 **International:**

CERN – Geneva, EGI Council, GRNET Athens, Deutsches Zentrum Fuer Luft und Raumfahrt E.V.(DLR), Germany, University of Patras – Greece, NewCastle University – UK, Paideia Foundation - Bulgaria, Institute for Education, University of Reading – UK, Riga Technical University – Letonia, Vilnius Gedimas Technical University - Lithuania, SZTAKI – Budapest, Institute of Computer Science – Praha – Czech Republic, Institute for Parallel Processing – Sofia – Bulgaria, University of Ljubljana – Slovenia, CERFACS – Toulouse – France, Mihajlo Pupin Institute – Belgrade – Serbia, Aldebaran Robotics – Paris – France, Istituto per le Applicazioni del Calcolo "M. Picone"- Bari – Italy, Max Planck Institute for Dynamics of Complex Technical Systems – Magdeburg – Germany, Swiss Federal Institute of Technology Zurich – Zurich – Swizerland, Institute de Optica (CSIC) – Madrid – Spain, University of Southern California – Department of Civil & Environmental Engineering - Los Angeles, USA, State University of Florida - Department of Scientific Computing – USA.

Expertise

🔲 Studies and advanced research in ICT;
🔲 Development and implementation of information systems, applications and services;
🔲 Mathematical modeling, simulation and optimization;
🔲 Installation and administration of computer networks and distributed infrastructures;
🔲 IT support for priority social and economical domains (health, inclusion, green energy, digital content management)
🔲 Technical and scientific monitoring of all the activities concerning an ICT project, including the implementation requested by customers;
🔲 Specialized consulting for defining and developing specifications/terms of reference activities for different institutions;
🔲 Participation in studies of research infrastructure development (Grid, High Performance Computing);
🔲 Evaluation of project proposals financed from national and international funds (structural funds, funds from European competition, BERD, BM grants a.s.o.);
🔲 Services for management and monitoring ROTLD (Romanian Top Level Domain).

5 Main Projects

1. SPOCS – Simple Procedures Online for Cross-Border Services (Program EU)
2. E-SENS – Electronic Simple Networked Services (Program EU)
3. PPP4 BROADBAND – Tackling the "Broadband Gap" in SEE Rural areas through PPP Model (Program EU)
4. "e-Cultural Highway" – Crearea unei autostrăzi culturale în România (PS)
5. Sistem integrat pentru promovarea şi evidenţierea multiculturalităţii în scopul dezvoltării durabile a spaţiului rural (PS)

Publishing activity (2007-2012)

Nr.	Published papers	National	International	In ISI Web of Knowledge	Total
1	Books and chapters in books	32	11		43
2	ISI papers	20	28	28	48
3	Papers in Journals	142	29	25	171
4	Conference Proceedings papers	67	189	14	256
5	Papers at Conferences ranked A or B		7		7
6	TOTAL				**462**

Director General,
Prof. Dr. Ing. Doina Banciu