Master studies.
Department's research projects

Romanian rules about master studies (HG 404/2006)

- The programme should include a scientific research component
- Research activities should be done in a group
  - including PhD students, teachers and researchers
- The results of the master student can be published in journals/proceedings and in the dissertation thesis
  - The dissertation thesis should include elements of originality and methods of scientific validation

Research topics

Secure | https://research.info.uvt.ro/wiki/People

Research Center in Computer Science

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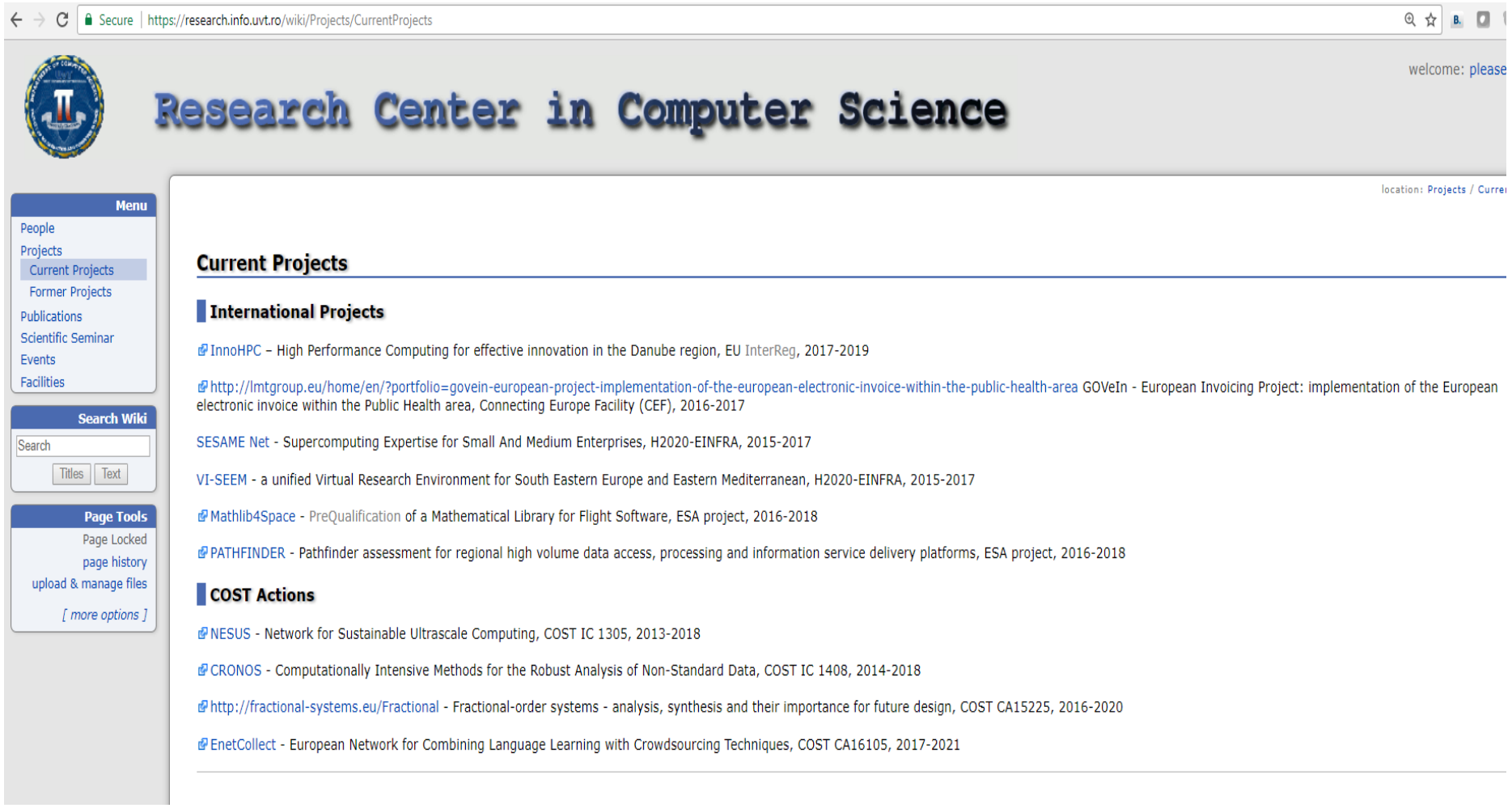
Permanent Staff

Name	Research topics
Cosmin Bonchis	Information theory, Membrane computing, Parallel and distributed computing
Adrian Craciun	Automated reasoning
Mihai Chis	Group theory; Computational algebra
Mircea Dragan	Computational geometry
Isabela Dramnesc	Automated reasoning
Madalina Erascu	Distributed (Cloud) Computing, Formal Verification, Automated Theorem Proving, Symbolic Computation (Computer Algebra)
Marc Frincu	Grid computing; Tasks scheduling
Fortis Teodor Florin	Workflows; web technologies; Ontologies
Mihail Gaianu	Computational geometry; Image processing
Victoria Iordan	Mathematical models in flight control; Workflows; Ontologies
Gabriel Istrate	Combinatorical and game-theoretic models in theoretical computer science; Computational complexity; Combinatorial models of complex systems
Gabriel Iuhasz	Multiagent systems; Video games
Eva Kaslik	Mathematical models in aerospace science; Neural network dynamics
Mircea Marin	Declarative programming; Automated reasoning; Formal languages; Computer Algebra; Multiagent systems
Liviu Mafteiu Scai	Parallel computing, Numerical methods, Metaheuristics
Flavia Micota	Evolutionary computing, Bio-inspired metaheuristics
Stelian Mihalas	Number theory; Graph theory
Cristina Mindruta	Workflows; Web services; Ontologies
Marian Neagul	Big data; Cloud computing
Viorel Negru	Intelligent systems; Multi-agent systems
Darian Onchis	Signal and image processing
Silviu Panica	Cloud computing; High Performance Computing
Dana Petcu	Distributed computing; Grid computing; Cloud computing; Parallel computing
Daniel Pop	Knowledge discovery; Big data; High performance computing
Horia Popa	Knowledge discovery; Recommender systems
Adriana Popovici	Cellular automata
Ciprian Pungila	Intelligent systems; Anomaly detection
Monica Tirea	Multiagent systems; Financial modeling
Adriana Tanasie	Mathematical models in crystal growth
Daniela Zaharie	Evolutionary computing; Nature inspired metaheuristics; Knowledge discovery

Curent projects



Scientific Seminar

Events

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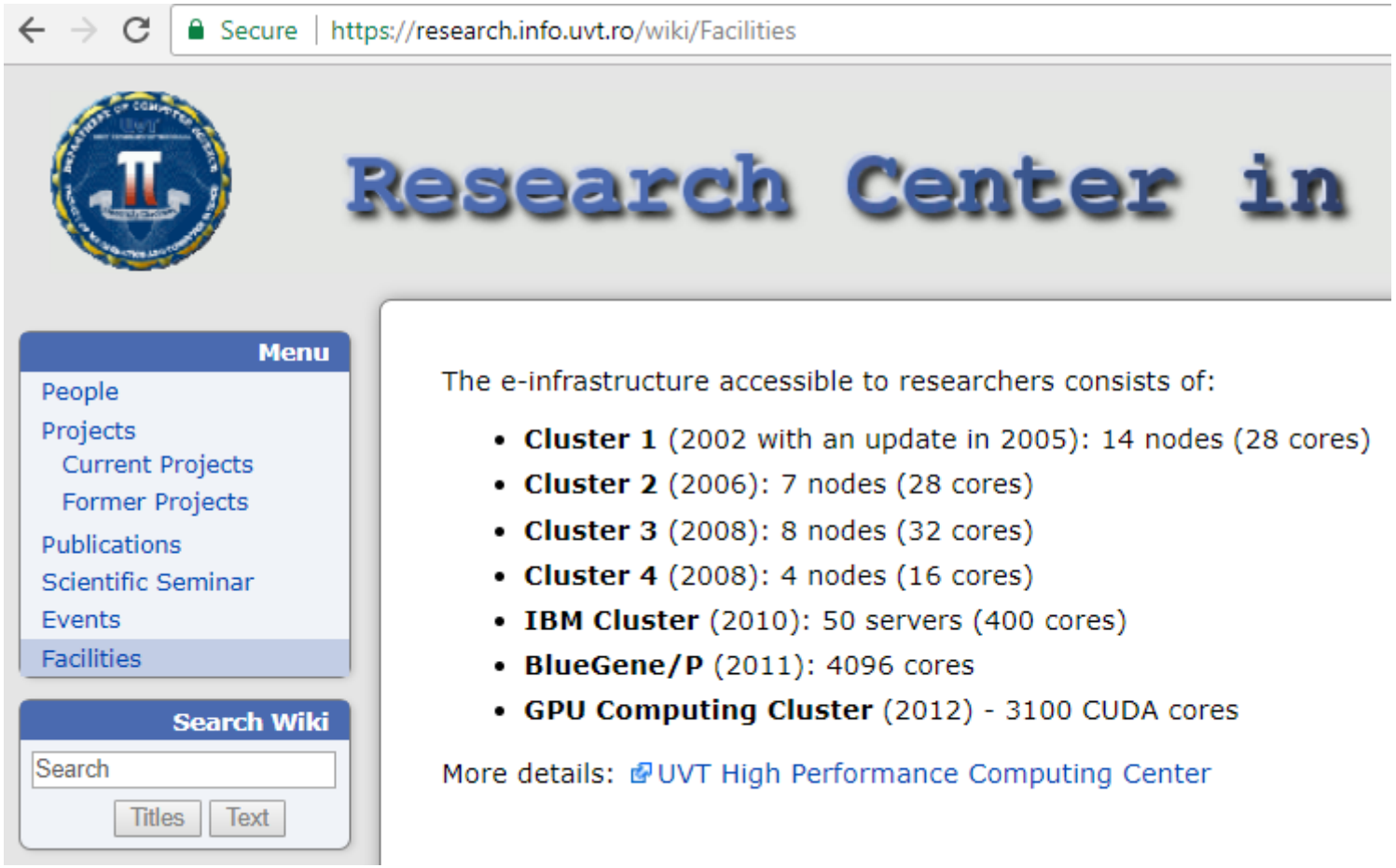
The Department of Computer Science organizes each year together
Symbolic and Numeric Computation for Scientific Computing.
SYNASC 2017
SYNASC 2016
SYNASC 2015
SYNASC 2014
SYNASC 2013
SYNASC 2012
SYNASC 2011
SYNASC 2010
SYNASC 2009
SYNASC 2008
SYNASC 2007
SYNASC 2006
SYNASC 2005

Facilities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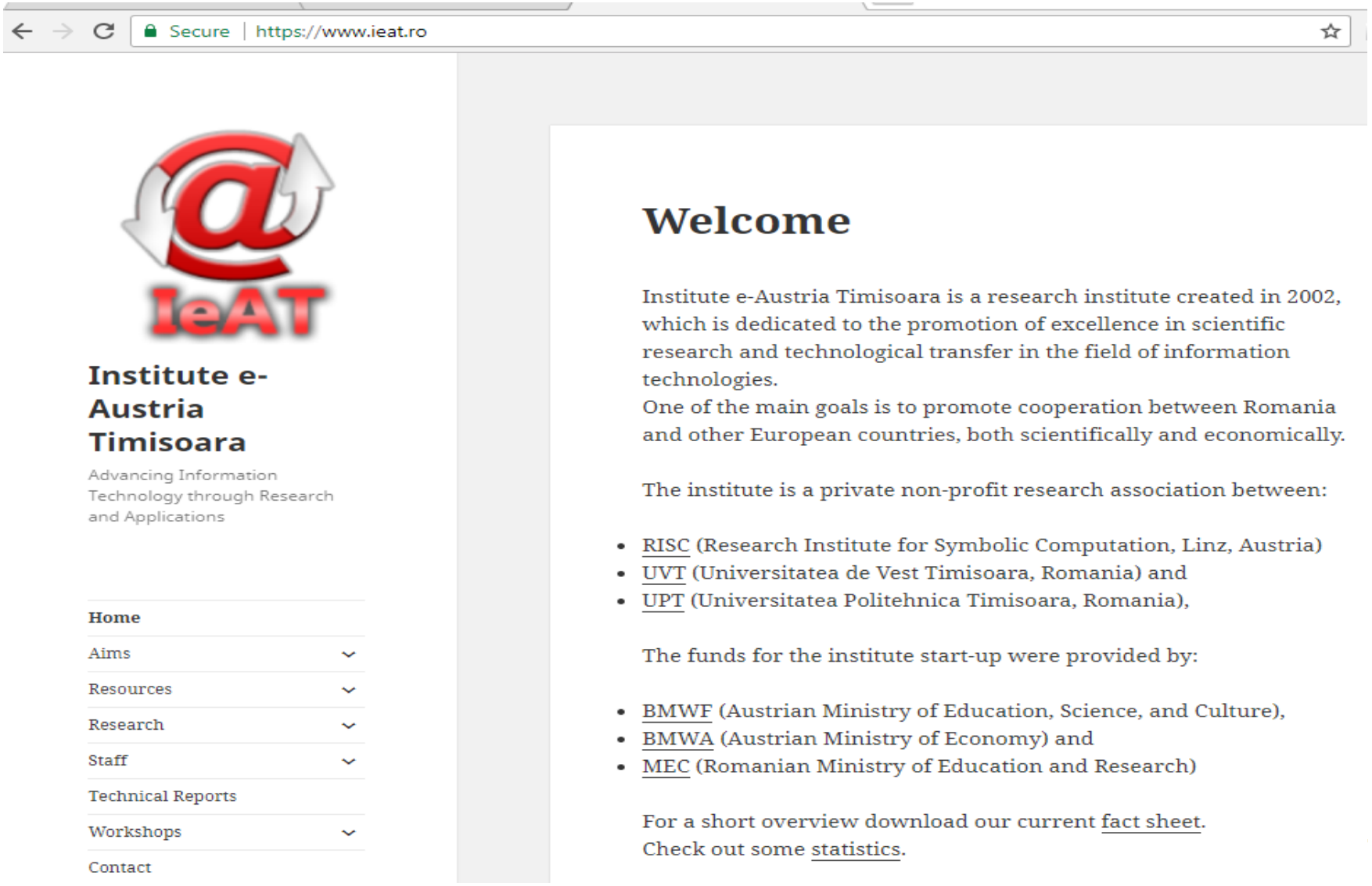
The e-infrastructure accessible to researchers consists of:
Cluster 1 (2002 with an update in 2005): 14 nodes (28 cores)
Cluster 2 (2006): 7 nodes (28 cores)
Cluster 3 (2008): 8 nodes (32 cores)
Cluster 4 (2008): 4 nodes (16 cores)
IBM Cluster (2010): 50 servers (400 cores)
BlueGene/P (2011): 4096 cores
GPU Computing Cluster (2012) - 3100 CUDA cores
More details: UVT High Performance Computing Center

Spin-off research institute



Curent projects

www.ieat.ro/research/projects/current-projects/

Institute e-Austria Timisoara

Advancing Information Technology through Research and Applications

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  - **Projects**
    - **Current Projects**

Current Projects

- MANeUveR: Management Agency for Cloud Resources
- ATCO: Advanced techniques in combinatorial optimization and computational complexity
- FraDys: Theoretical and Numerical Analysis of Fractional-Order Dynamical Systems and Applications
- DICE: Developing Data-Intensive Applications with Iterative Qualitative Enhancements
- CloudLightning: Self-Organising, Self-Managing Heterogeneous Cloud
- DICE+
- CloudLightning+

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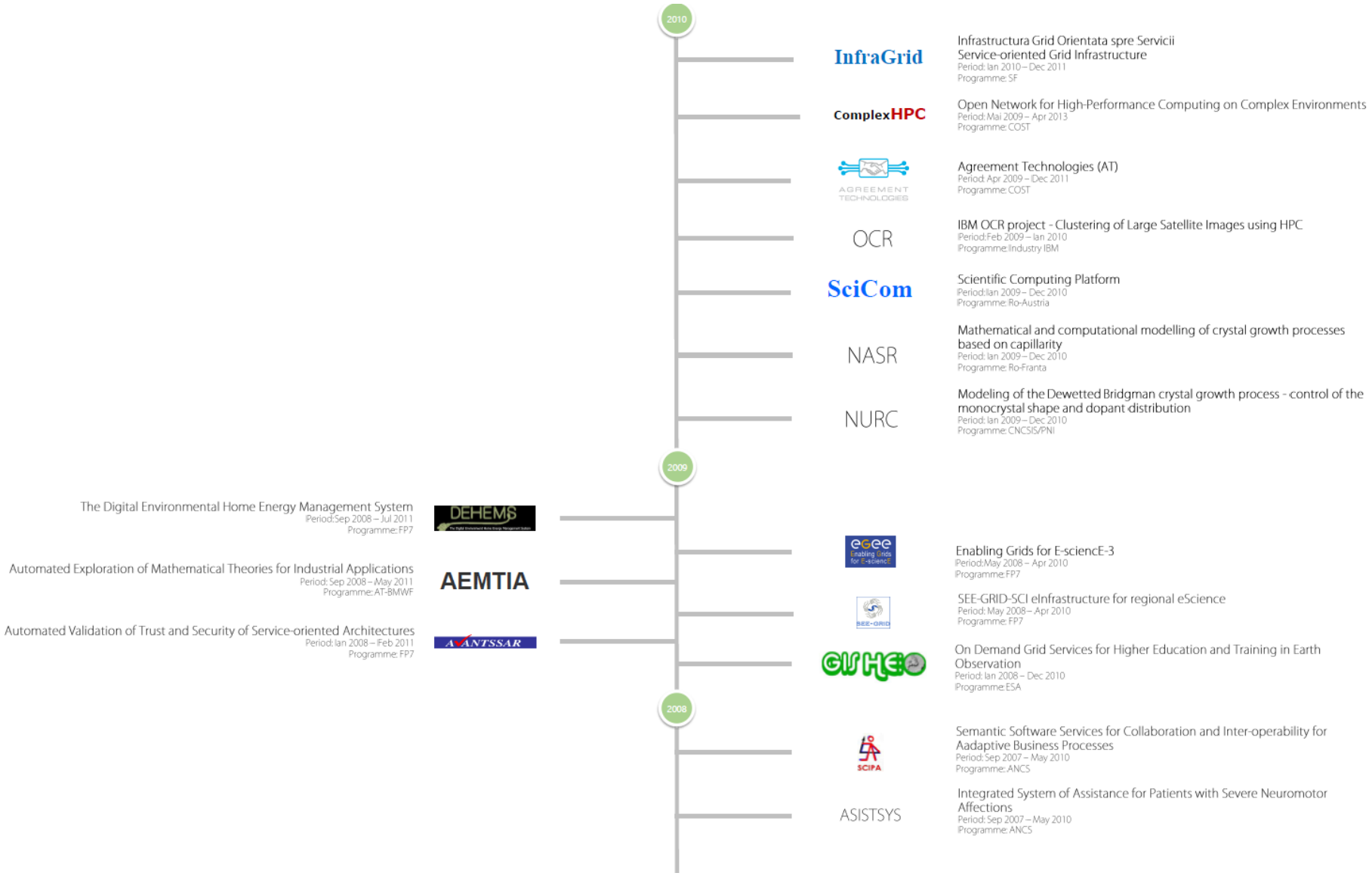
Recent projects



Recent projects

2014

NESUS
Network for Sustainable Ultrascale Computing
Period: Apr 2014 – Mar 2018
Programme: COST

Share-PSI 2.0
The network for innovation in European public sector information
Period: Feb 2014 – Jun 2016
Programme: CIP

CBIES PROJECT
Improving the capability of the Romanian and Serbian authorities of reacting in emergency situations
Period: 18 months (2013-2014)
Programme: IPA

SCAPE
Scalable Preservation Environments
Scalable Preservation Environments
Period: Sep 2013 – Sep 2014
Programme: FP7

SPECS
Secure Provisioning of Cloud Services based on SLA Management
Period: Nov 2013 – Apr 2016
Programme: FP7

2013

MODAClouds
A Model-Driven Approach for the Design and Execution of Applications on Multiple Clouds
Period: Oct 2012 – Sep 2015
Programme: FP7

STRUCTCOMB
Structure and computational difficulty in combinatorial optimization: an interdisciplinary approach
Period: Mar 2012 – Dec 2016
Programme: UEFISCDI

Seed
Speeding Every European Digital
Period: Jan 2012 – Jun 2014
Programme: CIP

HPC-RO
High Performance Computing Service Center
Period: Jan 2012 – Dec 2014
Programme: FP7

AMICAS PROJECT
Automated Management in Cloud and Sky Computing Environments
Period: Jan 2012 – Dec 2016
Programme: UEFISCDI

SPaCIoS
Secure Provision and Consuption in the Internet of Services
Period: Oct 2010 – Sep 2013
Programme: FP7

2012

mOSAIC
Open source API and platform for multiple clouds
Period: Sep 2010 – Apr 2013
Programme: FP7

HP-SEE
High-Performance Computing Infrastructure for South East Europe's Research Communities
Period: Sep 2010 – Aug 2013
Programme: FP7

icam
Institutul de cercetări avansate de mediu
„Advanced Environmental Research Institute"
Period: Sep 2010 – Dec 2015
Programme: SF

EGI-InSPIRE
Integrated Sustainable Pan-European Infrastructure for Researchers in Europe
Period: May 2010 – Dec 2014
Programme: FP7

SEERS
Strengthening the Participation of Romania at European R&D in Software Services
Period: Jan 2010 – Dec 2011
Programme: FP7

ANNE
Postdoctoral Research Project PD_145 (2010-2012)
ADVANCED IMPULSIVE AND FRACTIONAL-ODER NEURAL NETWORK MODELS
Period: Jan 2010 – Dec 2012
Programme: CNCSIS/PNII

ITMOP
PostDoc Project PD_575
Information Theory methods for optimization problems
Period: Jan 2010 – Dec 2012
Programme: CNCSIS/PNII

2010