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



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Permanent Staff	Permanent Staff			
Name	Research topics			
	Information theory, Membrane computing, Parallel and distributed computing			
	Automated reasoning			
Mihai Chis	Group theory; Computational algebra			
	Computational geometry			
☑ Isabela Dramnesc	Automated reasoning			
	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			
	Computational geometry; Image processing			
Victoria Iordan	Mathematical models in flight control; Workflows; Ontologies			
	Combinatorical and game-theoretic models in theoretical computer science; Computational complexity; Combinatorial models of complex systems			
Gabriel Iuhasz	Multiagent systems; Video games			
	Mathematical models in aerospace science; Neural network dynamics			
	Declarative programming; Automated reasoning; Formal languages; Computer Algebra; Multiagent systems			
Liviu Mafteiu Scai	Parallel computing, Numerical methods, Metaheuristics			
	Evolutionary computing, Bio-inspired metaheuristics			
Stelian Mihalas	Number theory; Graph theory			
Cristina Mindruta	Workflows; Web services; Ontologies			
	Big data; Cloud computing			
Viorel Negru	Intelligent systems; Multi-agent systems			
Darian Onchis	Signal and image processing			
	Cloud computing; High Performance Computing			
	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			
	Intelligent systems; Anomaly detection			
Monica Tirea	Multiagent systems; Financial modeling			
Adriana Tanasie	Mathematical models in crystal growth			
	Evolutionary computing; Nature inspired metaheuristics; Knowledge discovery			

Curent projects

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welcome: please



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Current Projects

International Projects

InnoHPC - High Performance Computing for effective innovation in the Danube region, EU InterReg, 2017-2019

http://lmtgroup.eu/home/en/?portfolio=govein-european-project-implementation-of-the-european-electronic-invoice-within-the-public-health-area GOVeIn - European Invoicing Project: implementation of the European electronic invoice within the Public Health area, Connecting Europe Facility (CEF), 2016-2017

SESAME Net - Supercomputing Expertise for Small And Medium Enterprises, H2020-EINFRA, 2015-2017

VI-SEEM - a unified Virtual Research Environment for South Eastern Europe and Eastern Mediterranean, H2020-EINFRA, 2015-2017

Mathlib4Space - PreQualification of a Mathematical Library for Flight Software, ESA project, 2016-2018

PATHFINDER - Pathfinder assessment for regional high volume data access, processing and information service delivery platforms, ESA project, 2016-2018

COST Actions

NESUS - Network for Sustainable Ultrascale Computing, COST IC 1305, 2013-2018

CRONOS - Computationally Intensive Methods for the Robust Analysis of Non-Standard Data, COST IC 1408, 2014-2018

Http://fractional-systems.eu/Fractional - Fractional-order systems - analysis, synthesis and their importance for future design, COST CA15225, 2016-2020

EnetCollect - European Network for Combining Language Learning with Crowdsourcing Techniques, COST CA16105, 2017-2021

Scientific Seminar



Research Center in Computer Science

2014

2013

2012

2011

2010

2015

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2017

Previous years:

The Impact of Autoscaling Polices on Web Workloads

Mo'min I.M. Tabash, University of Pavia, Italy

June 7, 2017, 18:00, room 045C

Scheduling data stream jobs on distributed systems with background load

2016

Anca Vulpe, West University of Timisoara, Romania

May 10, 2017, 18:00, room 045C

Integrative modeling of time-course multi-level omics data from HPV-induced cervical carcinogenesis

Viktorian Miok, VU University Medical Center in Amsterdam, The Netherlands

May 3, 2017, 18:00, room 045C

The band spectrum of the periodic Airy-Schrödinger operator on the real line

Hakim Boumaza, Universite Paris XIII, France

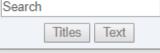
April 28, 2017, 9:40, room 104





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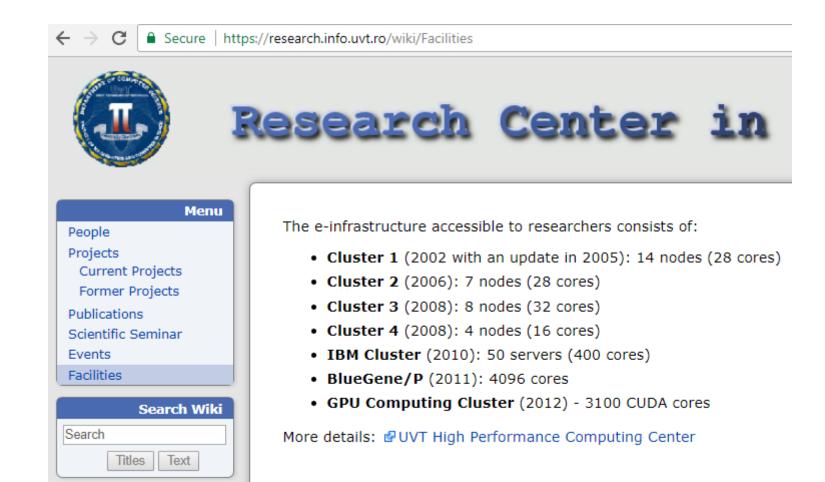
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The Department of Computer Science organizes each year together Symbolic and Numeric Computation for Scientific Computing.

- SYNASC 2017
- SYNASC 2016
- SYNASC 2015

- SYNASC 2010
- SYNASC 2009
- SYNASC 2008
- SYNASC 2007
- SYNASC 2006
- SYNASC 2005

Facilities



Spin-off research institute





Institute e-Austria Timisoara

Advancing Information Technology through Research and Applications

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Welcome

Institute e-Austria Timisoara is a research institute created in 2002, which is dedicated to the promotion of excellence in scientific research and technological transfer in the field of information technologies.

One of the main goals is to promote cooperation between Romania and other European countries, both scientifically and economically.

The institute is a private non-profit research association between:

- RISC (Research Institute for Symbolic Computation, Linz, Austria)
- UVT (Universitatea de Vest Timisoara, Romania) and
- <u>UPT</u> (Universitatea Politehnica Timisoara, Romania),

The funds for the institute start-up were provided by:

- · BMWF (Austrian Ministry of Education, Science, and Culture),
- · BMWA (Austrian Ministry of Economy) and
- MEC (Romanian Ministry of Education and Research)

For a short overview download our current $\underline{\text{fact sheet}}$. Check out some statistics.

Curent projects

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



Institute e-Austria Timisoara

Advancing Information Technology through Research and Applications

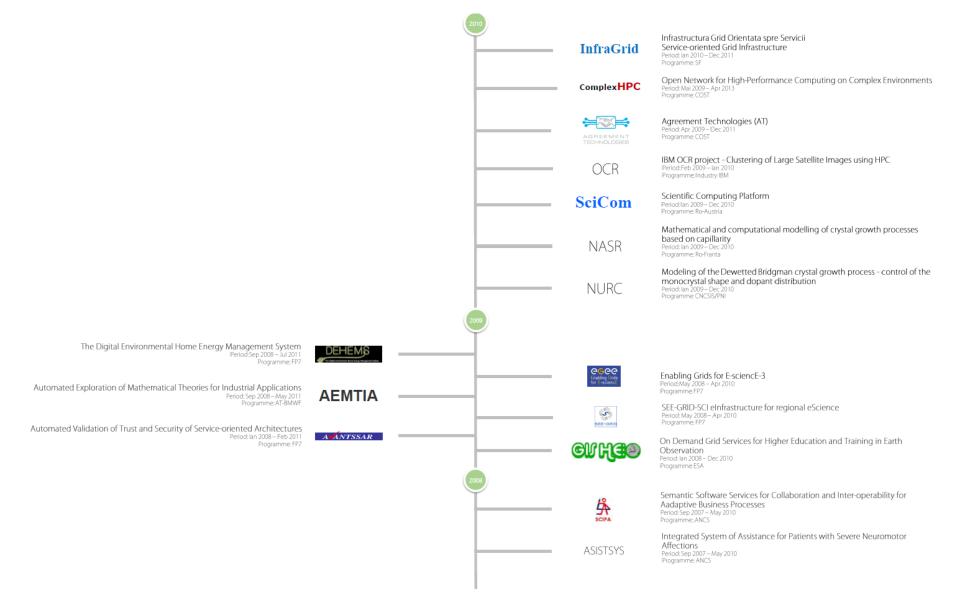
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Current Projects

- MANeUveR: Management Agency for Cloud Resources
- ATCO: Advanced techniques in combinatorial optimization and computational complexity
- <u>FraDys:</u> Theoretical and Numerical Analysis of Fractional-Order Dynamical Systems and Applications
- <u>DICE:</u> 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

Secure Provisioning of Cloud Services based on SLA Management Programme: FP7



A Model-Driven Approach for the Design and Execution of Applications on Multiple Clouds

Period: Oct 2012 – Sep 2015 Programme: FP7

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

> Speeding Every European Digital Programme: CIP

Secure Provision and Consuption in the Internet of Services

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



STRUCTCOMB







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

> PostDoc Project PD_575 Information Theory methods for optimization problems Period: lan 2010 - Dec 2012 Programme: CNCSIS/PNI





Share-PSI 2.0

Network for Sustainable Ultrascale Computing

The network for innovation in European public sector information



Improving the capability of the Romanian and Serbian authorities of reacting in emergency situations

Period:18 months (2013-2014) Programme: IPA



Scalable Preservation Environments



HP-SEE

@GI-InSPIRE

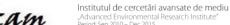
High Performance Computing Service Center



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

High-Performance Computing Infrastructure for South East Europe's Research Communities

Period:Sep 2010 - Aug 2013 Programme: FP7



Period: Sep 2010 - Dec 2015

Integrated Sustainable Pan-European Infrastructure for Researchers in Europe Period: May 2010 – IDec 2014

Programme: FP7



Strengthening the Participation of Romania at European R&D in Software

Period: lan 2010 – IDec 2011 Programme: FP7



