

Proposal themes for dissertation paper
Master ADVANCED COMPUTING SYSTEMS

2012-2013

No.	Coordinator	Theme title
1.	Prof.dr.ing. Lucian VINTAN	A Simulation Framework for Network on Chip Architectures Design, Evaluation and Optimization
2.		Implementing Evolutionary Multi-Objective Optimization Algorithms in a Distributed Design Space Exploration Framework for Multicore Architectures
3.		Design Space Exploration Multi-Objective Optimization for Multicore Systems using Response Surface Models
4.	Prof.dr.ing. Daniel VOLOVICI	Intelligent Engine for Backgammon
5.		Semantic text mining
6.		Working on Series of Images using Methods from Machine Learning
7.	Conf.dr.ing. C-tin BĂLĂ-ZAMFIRESCU	Assessing the convergence of multi-agent system
8.	Conf. dr.ing. Adi MITEA	Cloud computing and data security
9.		Using databases in clouds – a comparison analysis
10.		Using cloud technologies for data management – advantages and disadvantages
11.	Conf.dr.ing. Ioan Z. MIHU	Neural Network System for handwritten character recognition
12.		Neural Network System for geometric shapes recognition
13.	Conf.dr.ing. Rodica BACIU	Image Processing with OpenGL and Stencil Test
14.		An Utility for Image Processing based on OpenGL
15.		The development of a crossplatform OpenGL game
16.	Conf.dr.ing. Macarie BREAZU	Near-lossless image compression using 2D LZ77
17.		EZW/SPIHT coder-decoder
18.	Conf.dr.ing. Remus BRAD	Optical flow analysis and improvement
19.		Echocardiographic motion processing
20.	Conf. dr. ing. Dorin SIMA	Analysis and Design of Multi Agent Systems http://jade.tilab.com/doc/tutorials/JADE_methodology_website_version.pdf
21.		Multi Agent Systems for Java Sun Spot http://personal.ee.surrey.ac.uk/Personal/F.Ganz/leapSpot.html https://github.com/mcpat/microjiac-public/blob/master/README http://www.agentfactory.com/index.php/AFME_Programming_Guide
22.	Conf. dr. ing. Adrian FLOREA	Heuristic search methods in the design-space of architectures, applications and compiler.
23.		Designing and implementing an effective control system of energy consumption in smart building.
24.	s.l. dr .ing. Daniel MORARIU	Neural Network System for time series.
25.	s.l.dr.ing. Adalbert GOLOMETY	Evolutionary Systems simulated by Lindenmayer Grammars
26.		Genetic Algorithms versus Lindenmayer grammars in Artificial Life simulation
27.	Asist. dr. ing. Arpad GELLERT	Improving SMT architectures with selective anticipatory techniques
28.		Improving multicore systems with selective anticipatory techniques

Head of Department,

Professor Daniel VOLOVICI, PhD

Responsible proposal themes,

associate professor Remus BRAD