

PROPUNERI DE TEME PENTRU LUCRAREA DE DIZERTATIE
Master EMBEDDED SYSTEMS

Promotia 2011-2012

Nr. crt.	Coordonator	Titlul temei
1.	Prof.dr.ing. Lucian VINTAN	Extracting Communication Patterns from Parallel Applications for a Network-on-Chip Simulation Framework
2.		Interfacing an Automatic Design Space Exploration Framework with some Multicore Simulators (<i>SCoPE, Graphite</i>)
3.		Implementing Fault Tolerance in a Network on Chip Simulation Framework
1.	Prof.dr.ing. Daniel VOLOVICI	Game development environment (artificial life)
2.		Plagiarism detection
3.		Matlab tools for model validation
4.		Matlab simulation of solid bodies in rotating magnetic and gravitational field
5.	Conf.dr.ing. Ioan Z. MIHU	Design, test and optimization of embedded applications on C166 hardware platform
6.		Design of a real time kernel for 16 bit microcontrollers of C166 family
7.		Networking in automotive
8.	conf.dr.ing. C-tin BĂLĂ-ZAMFIRESCU	Simulation and optimization of manufacturing execution systems
9.		Simulation and optimization of manufacturing control systems
10.	Conf. dr. ing. Remus BRAD	WLAN monitoring software
11.	Conf.dr.ing. Macarie BREAZU	Remote controlled robot using a video camera
12.		Chess board with move detection
13.		File-system support in ES
14.		FreeRTOS
15.	Conf.dr.ing. Cornel RENTEA	Discrete Control Systems Analysis. Control action from P.I.D simulation
16.		Sinteza comenzi PLC
17.		Block Representation of M.I.M.O Control Systems
18.	Conf. dr. ing. Dorin SIMA	Wireless sensor network http://en.wikipedia.org/wiki/Wireless_sensor_network http://www.sunspotworld.com/docs/ http://sensor.network.com/rest/faqs.jsp
19.		Wireless ad hoc network http://en.wikipedia.org/wiki/Wireless_ad_hoc_networks http://en.wikipedia.org/wiki/List_of_ad_hoc_routing_protocols http://www.ipd.uni-karlsruhe.de/KSN/ http://compnetworking.about.com/cs/wirelessfaqs/f/adhocwireless.htm
20.		SysML based systems design
21.		Web of Things with Sun SPOTs http://sunspotworld.com/S314730_Sun_SPOTs_Web_Of_Things/index.html
22.	Conf. dr. ing. Adrian FLOREA	Proiectarea și implementarea unui sistem de control eficient al consumului de energie în clădiri inteligente
23.		Mecanism de anticipare selectiva a valorilor unor instrucțiuni consumatoare de timp.
24.		Interacțiunea aplicațiilor Java la nivel microarhitectural din prisma predicției salturilor (directe și indirecte) și a performanței globale de procesare.
25.		Gestionarea consumului de energie într-o arhitectură multicore.
26.	S.I.dr. ing. Daniel MORARIU	Monitoring and control a technological process using a microcontroller.

27.		Patter recognition using neural networks implemented into microcontroller.
28.		CAN protocol. Priority problem.
29.	S.l.ing. Horia CAPRITA	Mobile application for communication with Siemens C161 microcontroller
30.		CAN architecture: application in automotive
31.		GPS module controlled by microcontroller
32.	Asist. dr. ing. Arpad GELLERT	Thermal analysis of microarchitectures with selective value predictor

Sef Catedra,

conf.dr.ing. Ioan Z. MIHU

Responsabil diplome,

conf.dr.ing. Remus BRAD