



AComIn: Advanced Computing for Innovation

FP7 Capacity Programme, Research Potential of Convergence Regions.

WORKSHOP

*Information and Communication Technologies for
Human Health and Quality of Life (ICT-HuHeQuL)*

May 15-17, 2013, Stara Zagora Mineral Baths, ARMIRA Hotel

Partially supported by the AComIn project (Advanced Computing for Innovation)

Program Committee:

Chair: Prof. Dr. Dimitar Karastoyanov

Members:

*Acad. Vassil Sgurev
Prof. Dr. Sc. Svetozar Margenov
Prof. Dr. Sc. Galia Angelova
Prof. Dr. Sc. Ivan Dimov
Prof. Dr. Sc. Ivan Yatchev
Prof. Dr. Kostadin Kostadinov
Prof. Dr. Todor Neshkov
Prof. Dr. Dimitar Tcharaktchiev*

Topics:

- **ICT for Human Health**
- **ICT for Quality of Life**
- **ICT in Medical Robotics**
- **ICT for Healthful Food**

Scientific Program:

May 15, 2013,	14.00 - 15.00 -	Registration	
May 15, 2013,	15.00 – 15.15 -	Opening Ceremony	
May 15, 2013,	15.15 - 17.15 -		
	Welcoming Speech from the Director of IICT-BAS		Prof. Dr.Sc. Svetozar Margenov
	Welcoming Speech from FSTU, SAI, BRS		Acad. Vasil Sgurev
	Welcoming Speech from the Mayor of St. Zagora City		Dpt Mayor Ivanka Sotirova
	Welcoming Speech from the District Health Inspection		Director Zlatina Naneva
	Welcoming Speech from the District Health Insurance		Director Slavka Yordanova
	Welcoming Speech from the Leader of AComIn Project		Prof. Dr.Sc. Galia Angelova
	Plenary Lecture: Supercomputing Applications In Life Sciences		Prof. Dr.Sc. Svetozar Margenov
	Plenary Lecture: AComIn Objectives		Prof. Dr. Sc. Galia Angelova
May 15, 2013,	17.15 - 17.30 -	Coffee Break	
May 15, 2013,	17.15 - 17.30	Company Business Presentation	Presentation of SPESIMA GMBH

- May 15, 2013, 19.00 - 22.00 - Welcoming Dinner
- May 16, 2013, 09.00 - 10.15 - **Session ICT for Human Health**
Chair Prof. Dr. D. Karastoyanov
1. Stefka Fidanova, Protein Structure Simulation
 2. Olympia Roeva, Stefka Fidanova, Modeling E.coli Cultivation Process
 3. Gergana Bencheva, Computer modelling of cerebral aneurysm hemodynamics
 4. Kostadin Kostadinov, Nano Robotics for In Vitro Procedures
 5. Antonia Todorova, ICT for Human Health and Quality of Life in Stara Zagora Municipality
 6. Stanislav Simeonov, Assitive Computer Interface for Visually Impaired
- May 16, 2013, 11.45 - 12.15 - Presentation of the Cluster "Mechatronics and Automation"
- May 16, 2013, 10.15 - 10.30 - Coffee Break
- May 16, 2013, 10.30 - 11.45 - **Session ICT in Medical Robotics**
Chair Assoc. Prof. Gennady Agre Ph.D
1. K.Georgiev, S.Margenov: Computer modelling and simulations of processes involved in radio-frequency hepatic tumor ablation
 2. Nedko Shivarov, Robot SHADOW for seniors
 3. Dimitar Karastoyanov, V.Monov, New Methods and Means for Knee and Ankle Rehabilotation
 4. Svetla Karastoyanova, National Programs for Human Health and Quality of Life
 5. N. Stoymenov, Graphical representation of information for visually impaired people
 6. Dimitar Tcharaktchiev, Galia Angelova, Automatic extraction of patient-related facts from the free texts of electronic health records
- May 16, 2013, 11.45 - 12.15 Company Business Presentations "ADDISS LAB"
- May 16, 2013, 14.00 - 15.15 - **Session ICT for Quality of Life**
Chair Prof. Dr. Sc. Galia Angelova
1. Tony Boyadjiev, Automated Bone Drilling in Orthopedic Surgery
 2. Ivan Yatchev, Krastio Hinov, Dimitar Karastoyanov, Permanent Magnet Linear Actuator for Braille Screen
 3. T.Atanasova, A. Bakanov, Smart living environment and the subjective quality of life
 4. T. Tashev, A. Bakanov, Study filtration properties of soils
 5. St. Gyoshev, Protection environment through new methods of renovation details
- May 16, 2013, 16.45 - 17.15 - Company Business Presentations (incl. posters, demos)
- May 16, 2013, 15.15 - 15.30 - Coffee Break
- May 16, 2013, 15.30 - 16.45 - **Session ICT for Healthful Food**
Chair Assoc. Prof. Krasimir Dimov Ph.D
1. Iliana Nacheva, Maria Doneva, Yancho Todorov, Petia Metodieva, Daniela Miteva, Krasimir Dimov, ICT on Innovative technologies for creation of probiotic foods
 2. Maria Doneva, Iliana Nacheva, Petia Metodieva, Yancho Todorov, Daniela Miteva, ICT on Application of cryobiotechnologies for development of lyophilized poly enzyme complexes
 3. Daniela Miteva, Krasimir Dimov, Iliana Nacheva, Yancho Todorov, Maria Doneva, Petia Metodieva, ICT on Prolongation of the storage and quality preservation of potato semi-finished foods by specific technological treatment
 4. Daniela Miteva, Krasimir Dimov, Iliana Nacheva, Yancho Todorov, Maria Doneva, Petia Metodieva, ICT on Modern technological processing for ensuring the quality of fruits
 5. V.Monov, Dimitar Karastoyanov, ICT for Energy efficiency of harmful industries
- May 16, 2013, 17.15 - 17.30 - Closing Ceremony
- May 16, 2013, 19.00 - 22.00 - Closing Dinner