



INSTITUTE OF INFORMATION AND
COMMUNICATION TECHNOLOGIES
BULGARIAN ACADEMY OF SCIENCES



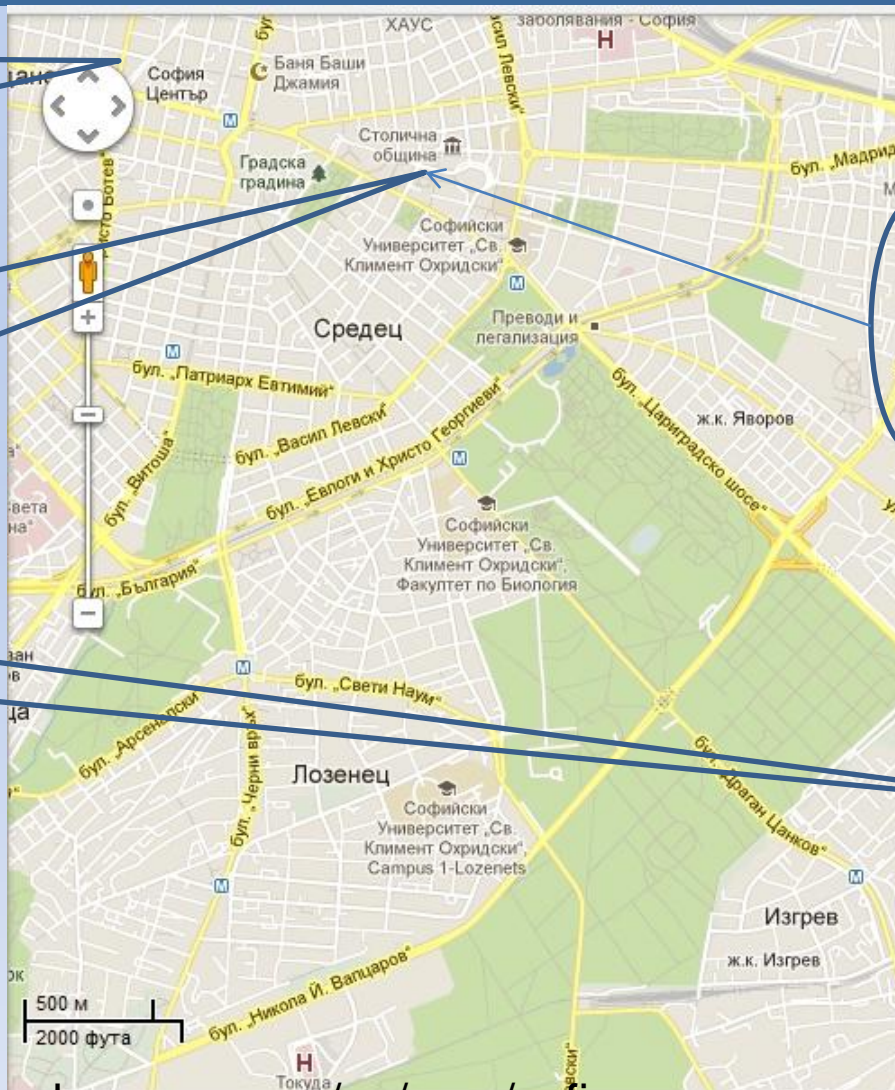
IICT, BAS, Sofia, and our collaboration with CLVM

an introduction by D. Dimov

at Computer Vision and Multimedia Lab
University of Pavia
Nov. 15, 2016

Sofia map: South-East part

Sofia center

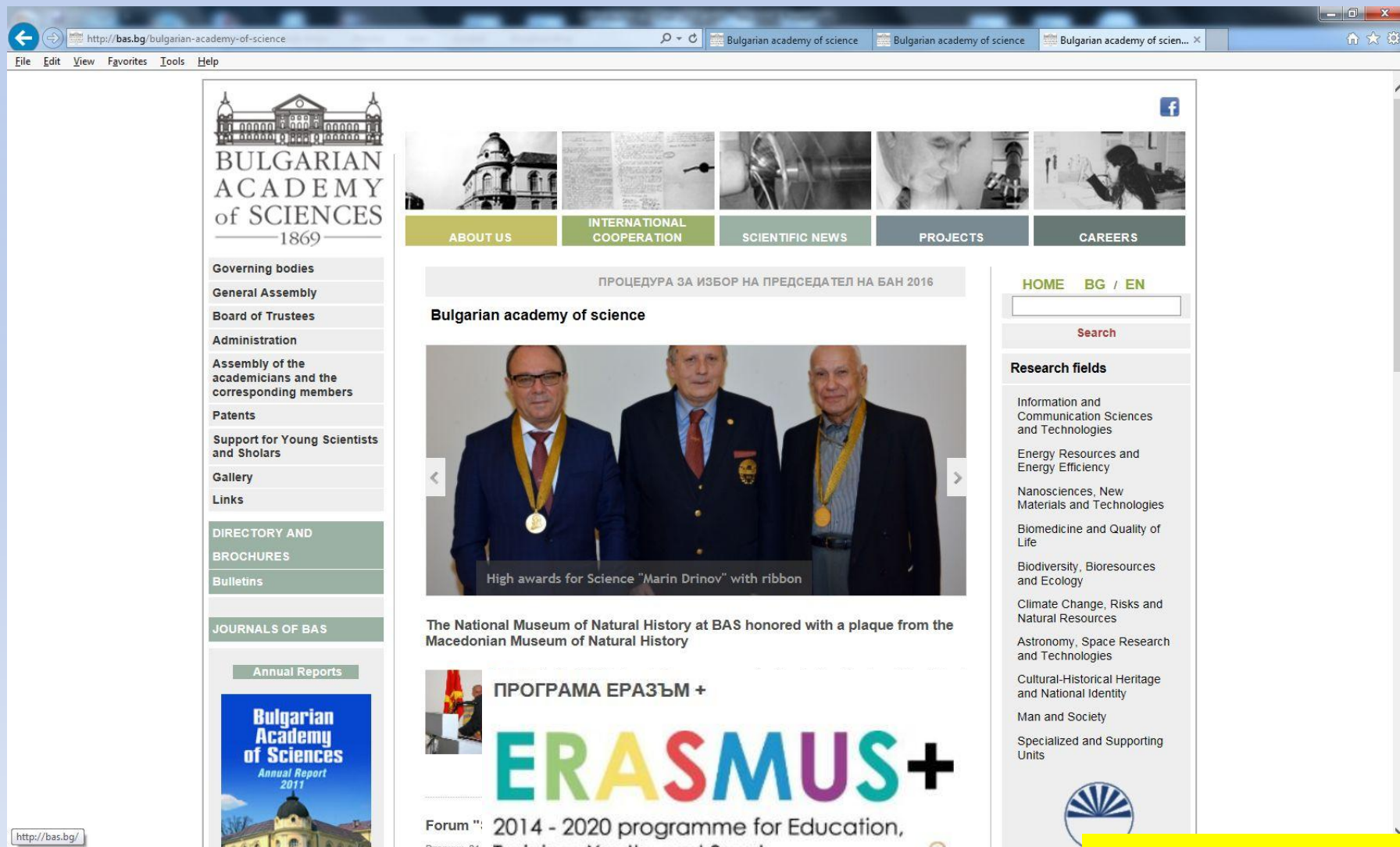


BAS official building

BAS main campus



<http://www.bgmaps.com/en/map/sofia>



http://bas.bg/bulgarian-academy-of-science

Bulgarian academy of science

Bulgarian academy of science

Bulgarian academy of science

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BULGARIAN ACADEMY of SCIENCES 1869

Governing bodies

General Assembly

Board of Trustees

Administration

Assembly of the academicians and the corresponding members

Patents

Support for Young Scientists and Sholars

Gallery

Links

DIRECTORY AND BROCHURES

Bulletins

JOURNALS OF BAS

Annual Reports

Bulgarian Academy of Sciences Annual Report 2011

ПРОЦЕДУРА ЗА ИЗБОР НА ПРЕДСЕДАТЕЛ НА БАН 2016

Bulgarian academy of science

High awards for Science "Marin Drinov" with ribbon

The National Museum of Natural History at BAS honored with a plaque from the Macedonian Museum of Natural History

ПРОГРАМА ЕРАЗЪМ +

ERASMUS+

Forum "2014 - 2020 programme for Education, Training, Youth, and Sport"

HOME BG / EN

Search

Research fields

Information and Communication Sciences and Technologies

Energy Resources and Energy Efficiency

Nanosciences, New Materials and Technologies

Biomedicine and Quality of Life

Biodiversity, Bioresources and Ecology

Climate Change, Risks and Natural Resources

Astronomy, Space Research and Technologies

Cultural-Historical Heritage and National Identity

Man and Society

Specialized and Supporting Units

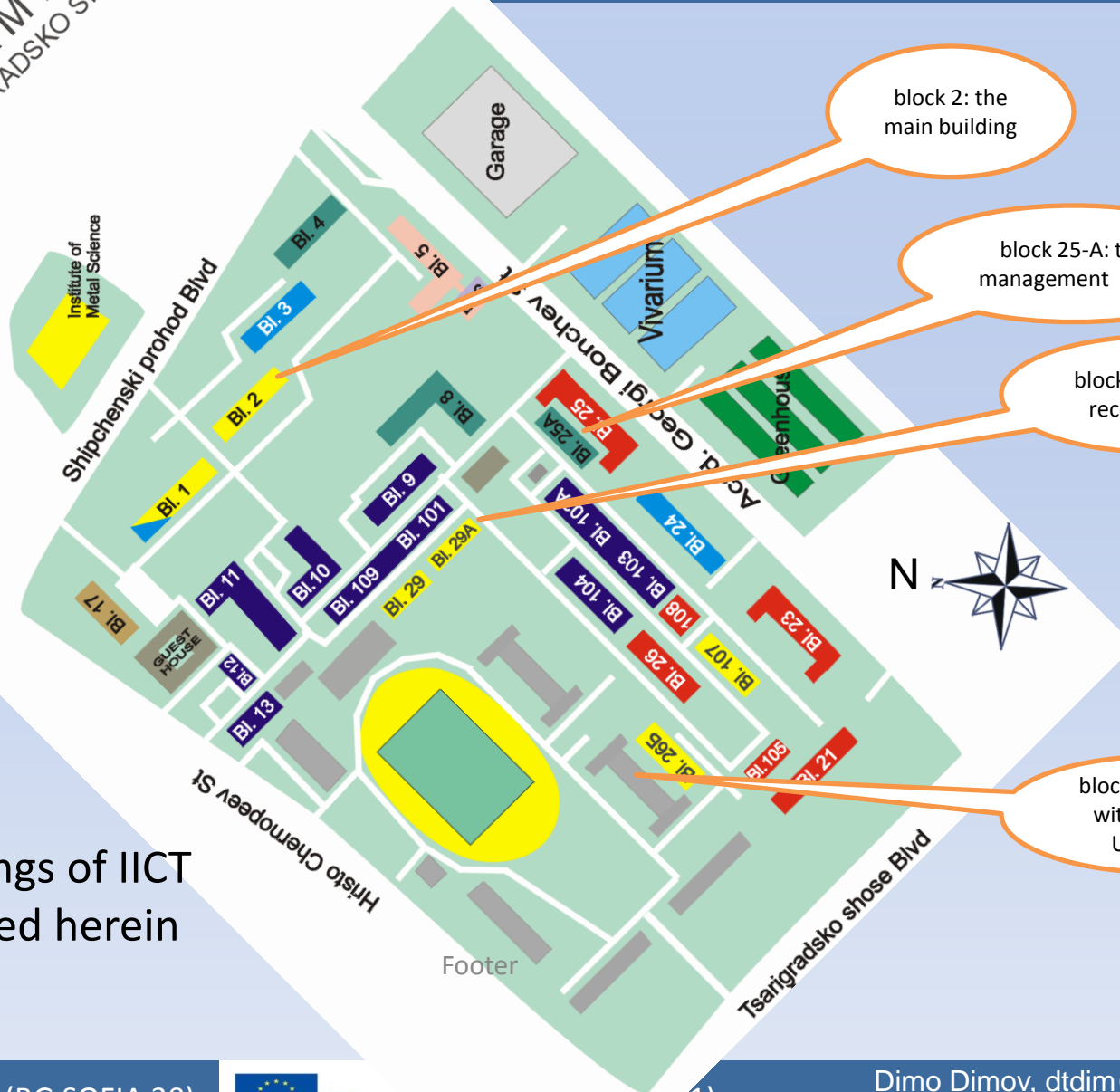
<http://www.bas.bg/>



CAMPUS - 1
TSARIGRADSKO SHOBE Blvd, 4th km

BAS main campus

BIOLOGICAL SCIENCES
MATHEMATICAL SCIENCES
EARTH SCIENCES
SOCIAL SCIENCES
TECHNICAL SCIENCES
CHEMICAL SCIENCES
HUMANITIES
PUBLISHING HOUSE



block 2: the
main building

block 25-A: the
management body

block 29-A: under
reconstruction

block 2-A: jointly
with the Sofia
University

At least 4 buildings of IICT
can be pointed herein

Footer

IICT-BAS, the main building (block 2)





IICT - BAS



The **Institute of Information and Communication Technologies (IICT)** at the Bulgarian Academy of Sciences is founded on 1-st of July 2010 as a successor of Institute for Parallel Processing (IPP), Institute of Information Technologies (IIT) and Institute of Computer and Communication Systems (ICCS).

The research and development activities of Institute of Information and Communication Technologies covers the following directions:



- ❖ [Computer Networks and Architectures](#)
- ❖ [Parallel Algorithms](#)
- ❖ [Scientific Computations](#)
- ❖ [Mathematical Methods for Sensor Data Processing](#)
- ❖ [Linguistic Modelling and Knowledge Processing](#)
- ❖ [Information Technologies for Security](#)
- ❖ [Grid Technologies and Applications](#)
- ❖ [Modelling and Optimization](#)
- ❖ [Information Processes and Decision Support Systems](#)
- ❖ [Intelligent systems](#)
- ❖ [Embedded Intelligent Technologies](#)
- ❖ [Communication Systems and Services](#)
- ❖ [Hierarchical Systems](#)

MANAGEMENT BODY



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SCIENTIFIC SECRETARY: [ASSOC. PROF. GENNADY AGRE](#)
CHAIRMAN OF SCIENTISTS GENERAL ASSEMBLY: [ASSOC. PROF. DIMO DIMOV](#)

DEPARTMENTS

- | | |
|---|---|
| <ul style="list-style-type: none"> • Computer Networks and Architectures
Head: Assoc. Prof. Dimitar Todorov • Scientific Computations
Head: Professor D.Sc. Svetozar Margenov • Linguistic Modelling
Head: Professor D.Sc. Galia Angelova • Grid Technologies and Applications
Head: Assoc. Prof. Emanouil Atanasov • Modelling and Optimization
Head: Assoc. Prof. Vladimir Monov • Information Processes and Decision Support Systems
Head: Assoc. Prof. Ivan Mustakerov • Embedded Intelligent Technologies
Head: Assoc. Prof. Dimitar Karastoyanov • Hierarchical Systems
Head: Professor D.Sc. Todor Stoilov | <ul style="list-style-type: none"> • Parallel Algorithms
Head: Professor D.Sc. Ivan Dimov • Mathematical Methods for Sensor Data Processing
Head: Assoc. Prof. Kiril Alexiev • Information Technologies for Security
Head: Assoc. Prof. Todor Tagarev • Technologies for Knowledge Management and Processing
Head: Assoc. Prof. Gennady Agre • Signal Processing and Pattern Recognition
Head: Assoc. Prof. Dimo Dimov • Intelligent Systems
Head: Assoc. Prof. Lyubka Doukovska • Communication Systems and Services
Head: Assoc. Prof. Rumen Andreev |
|---|---|

ADMINISTRATIVE AND SPECIALIZED UNITS

- | | |
|--|--|
| <ul style="list-style-type: none"> • Inspection Body • Coordination, Information and Publishing • Service and Support | <ul style="list-style-type: none"> • Financial & Accounting Unit • Human Resources |
|--|--|

For recent details, please visit <http://www.iict.bas.bg>

AComIn

Advanced Computing for Innovation

Objectives

Work packages

Topics in ICT

SmartLab equipment

Progress beyond the state of the art

Employed incoming postdocs

Opened positions

AComIn: Advanced Computing for Innovation

Funding: FP7 Capacity Programme, Research Potential of Convergence Regions

Call: FP7-REGPOT-2012-2013-1

Duration: 42 months (actually 36, only Evaluation by external experts will run in months 37-42)

Grant Agreement: 316087

Starting Date: 1 October 2012

Host organisation: Institute of Information and Communication Technologies (IICT) Bulgarian Academy of Sciences (BAS)

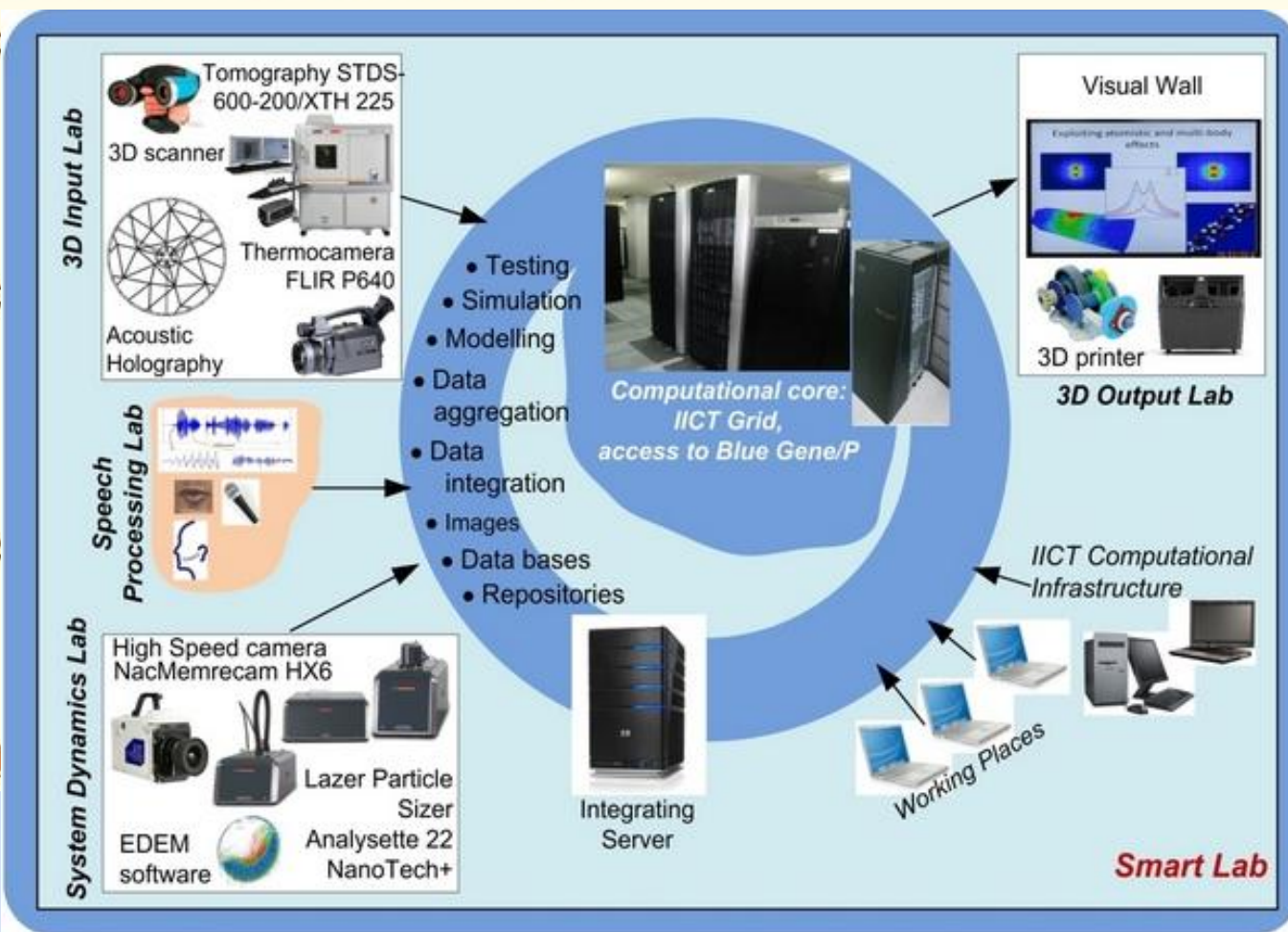
Coordinator: Prof. Galia Angelova, Dr.Sc.

Partners:

- Prof. Asen Asenov - Gold Standard Simulations Ltd. & University of Glasgow, Device Modelling Group
- Prof. Oleg Iliev - Department of Flow and Material Simulation at the Fraunhofer Institute for Industrial Mathematics (ITWM)- Kaiserslautern
- Prof. John Domingue - STI International
- Prof. Virginio Cantoni - Computer Vision & Multimedia Lab CVML, University of Pavia
- Prof. Ivan Kalaykov - Centre for Applied Autonomous Sensor Systems, School of Science and Technology, Örebro University
- Prof. Markos Papageorgiou - Dynamic Systems and Simulation Laboratory, Department of Production Engineering and Management, TU Crete
- Karina Angelieva - Joint Innovation Centre, Bulgarian Academy of Sciences



AComIn: Purchasing Smart Lab



For more details, please visit <http://www.iict.bas.bg/acomin/smartLab.html>

XT H 225

Industrial X-ray and Computed Tomography



ZPrinter Z650



- 10" X 15" X 8" -Build size
- .0035" - Z Layer thickness
- 540 X 600 - XY DPI resolution
- 74" X 29" X 57" - Machine size
- 24 Bit color (390,000 colors)



- 18,000 Scan points per second
- .002" - Scan accuracy
- 2.85 lbs Weight
- .004" Scan point resolution
- 3 Cameras (2 - scan, 1 color)
- 250 DPI Color scanning resolution

ZScanner Z700cx





PERMANENT STAFF

- ▶ Assoc. Prof. **Dimo Dimov** - Image & Speech Processing and Recognition, Content Based Image/Object Retrieval, Rapid & Reliable Access to Multimedia Databases, Data Mining & Information Retrieval Systems, Astroinformatics.
- ▶ Assoc. Prof. **Georgi Gluhchev** - Image Processing, Pattern Recognition, Biometrics.
- ▶ Assoc. Prof. **Vladimir Kyovtorov** - Signal and image processing, Statistical analysis, Communication and navigation techniques, Modelling and optimisation, Programming, Remote sensing, FPGA design.
- ▶ Assist. Prof. **Atanas Ouzounov** - Speech processing, Speaker recognition, Neural networks.
- ▶ Assist. Prof. **Valeri Ilchev** - Neural Networks, Pattern Recognition.
- ▶ PhD Student **Atanas Nikolov** - Image Processing, Pattern Recognition, Stereovision.
- ▶ Elizaveta Karaatanassova - Research assistance.

POST-DOCTORALS

- ▶ **Desislava Boyadzhieva** - Pattern Recognition, Biometrics, Signature Based Identification.
- ▶ **Alexander Marinov** - Image Processing & Pattern Recognition, Machine Learning.
- ▶ **Nadezhda Zlateva** - Image Processing & Pattern Recognition, Machine Learning.
- ▶ **Violeta Ivanova** - Research and creation of virtual educational environments.
- ▶ **Svetoslav Nedkov** - Image Processing, Pattern Recognition, Emotion Recognition.

ASSOCIATED STAFF

For more details, please visit <http://www.iict.bas.bg/SPIR/index-en.html>



For more details, please visit <http://mmsip.bas.bg/>

http://fetch.ecs.uni-ruse.bg/index.php?cmd=gsIndex


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http://fetch.ecs.uni-ruse.bg/

FETCH

Future Education and Training in Computing: How to support learning at anytime anywhere

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Work Packages
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Groups
Workplan
Meetings
Report
CompSysTech
e-Learning
Dissemination
EMEL-COTest
Login
Control Panel
Shared Documents
Forum





NEWS & UPCOMING EVENTS

Final FETCH meeting in Bratislava (updated)
23 August 2016
The final project meeting will be held at the Slovak University of Technology in Bratislava, Slovakia from 6 to 10 ... [read more ...](#)

Fifth project meeting in Palermo
09 June 2016
The fifth project meeting will be held in Palermo, Italy from 21 to 25 June 2016. You can find attached some useful ... [read more ...](#)

CompSysTech 2016
10 May 2016
CompSysTech 2016 will take place on 23-24 June 2016 in Palermo, Italy. Reviewing of papers is still in progress. ... [read more ...](#)

Fourth project meeting in Berlin (updated)
03 September 2015
The fourth project meeting will take place in Berlin, Germany from 9 to 13 September 2015. You can find attached ... [read more ...](#)

Paper submission of e-Learning'15



The screenshot shows the website for the 17th International Conference on Computer Systems and Technologies, CompSysTech'16. The website has a red header with the conference name and a left sidebar with navigation links. The main content area includes the conference title, dates, location, and various sections like 'Current status', 'Published by', 'Indexed in', 'Bibliometrics', 'Join us on Facebook', and 'Sponsors'.

INTERNATIONAL CONFERENCE on COMPUTER SYSTEMS and TECHNOLOGIES
CompSysTech®

17-th International Conference on Computer Systems and Technologies
CompSysTech'16
23-24 June 2016, Palermo, Italy

Current status
Preparing the conference proceedings ...

Published by
acm Association for Computing Machinery

Indexed in
DL SCOPUS™ Find out. dblp computer science bibliography

CompSysTech'16 is organized by
Bulgarian ACM Chapter
European Thematic Network
"Future Education and Training
in computing: How to Support
Learning at Anytime
Anywhere" (ETN FETCH)
JOHN ATANASOFF SOCIETY
OF AUTOMATICS AND
INFORMATICS
BULGARIAN ACADEMIC SOCIETY
OF COMPUTER SYSTEMS AND
INFORMATION TECHNOLOGIES

Bibliometrics
CompSysTech's public profile
on Google Scholar

Join us on Facebook
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[DATES](#)
[PROGRAM](#)
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[VENUE](#)
[REGISTRATION](#)

BIOMET 2014

International Workshop on
Biometrics

in the framework of
[AComin](#)
Advanced Computing
for Innovation



in conjunction with the
[European CQST Action - IC1106](#)
Integrating Biometrics and
Forensics for the Digital Age



IMPORTANT DATES

Deadline extended!

Paper submission: ~~30 April 2014~~
18 May 2014

Notifications: 10 June 2014
Camera-ready due: 30 July 2014
Workshop: 23-24 June 2014

Venue: Sofia (Bulgaria)

Download the BIOMET 2014
Program as [PDF](#).

Download the BIOMET 2014
Call for Papers as [PDF](#).



PROCEEDINGS. Please visit this [page](#) to download the proceedings: *Lecture Notes in Computer Science*, Volume 8897 2014, **Biometric Authentication**, First International Workshop, BIOMET 2014, Sofia, Bulgaria, June 23-24, 2014. Revised Selected Papers. Editors: Virginio Cantoni, Dimo Dimov, Massimo Tistarelli. ISBN: 978-3-319-13385-0 (Print) 978-3-319-13386-7 (Online)

MOTIVATIONS AND AIMS. Biometrics (or biometric authentication) refers to the identification of humans by their characteristics or traits. Biometrics is used in computer science as a form of identification and access control and to identify individuals in groups that are under surveillance. BIOMET 2014 is intended to provide a forum to present current work and new ideas in this challenging field. It renovates and continues the Biometrics tradition (2007-2010) of the [CompSysTech](#) International Conferences, one of the longest running international conferences in computer science in Bulgaria that started in 2000. At the same time, BIOMET 2014 is primarily connected with the goals of the [IICT-BAS's AComIn project](#) to disseminate recent advances in Biometrics among the research groups and companies in Bulgaria and Balkan countries as well.

SCOPE & CALL FOR PAPERS. The BIOMET 2014 scope of Call-for-papers includes, but is not limited to, the following subareas:

- Face and facial attributes analysis
- Fingerprints and palm authentication
- Forensic biometrics
- Gait and behavior analysis
- Handwriting and signature recognition
- Iris analysis and eye tracking
- Keystroke dynamics analysis
- Multimodal biometrics
- Odor and scent analysis
- Private biometrics
- Soft biometrics
- Voice recognition and speech analysis

FORMAT. The workshop will feature contributed talks as well as invited presentations. Moreover, feeling that the more informal the better, open and lively discussions and exchange of ideas are solicited. Some panels are allocated to stimulate questions and discussions. Companies are encouraged to participate with demos and posters.

ORGANIZATION

Program Chairs
Virginio Cantoni, *University of Pavia - I*
Dimo Dimov, *IICT-BAS, Sofia - BG*

<http://vision.unipv.it/BIOMET-2014/>

Thank you

(let us continue if no "?" 😊)