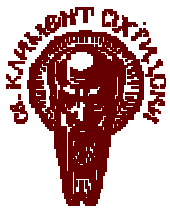
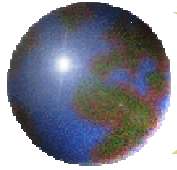


Informatics Education as a Driver for Country Development



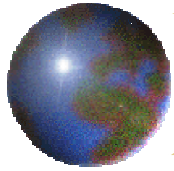
Dr. Roumen Nikolov, Vice-Dean, Faculty of Mathematics and Informatics
Dr. Iliana Nikolova, Head of Department of Information Technologies
Sofia University, Bulgaria

roumen@fmi.uni-sofia.bg, iliana@fmi.uni-sofia.bg



Outline

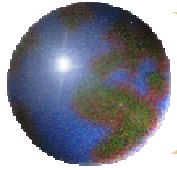
- Sofia University and Faculty of Mathematics & Informatics
- European Dimensions of Informatics Education
- Implementing ACM/IEEE Computing Curricula
- Informatics Education Dynamics
- The Role of New Member States in Europe of Knowledge
- Education and Research as a Meta-industry and driver for country development



Sofia University – the biggest Educational and Scientific Centre of Bulgaria



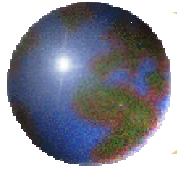
- 17 Faculties
- 35 000 students and over 3 000 teachers & researchers
- 80 Bachelor's and over 200 Master's programmes
- Very important role for the development of the country
- Challenges:
 - to become a National and Regional High-Technology and Innovation Centre, an **entrepreneurial university**
 - to adopt new standards and models of education
 - to implement the new role of universities as an infrastructure of Knowledge Economy
 - to build a sustainable university-industry-government partnership



Faculty of Mathematics & Informatics

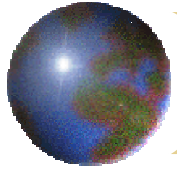
Curricula re-design at BSc, MSc and PhD level:

- Implementing ACM/IEEE CC2001/CC2005 – BSc in **CS, SE, IS**
- Participation in Intel Multi-core Curriculum Program (Top Tier University Club)
- MSc Programs in: Artificial Intelligence; Computational Science and Engineering, Computer Graphics, eBusiness and eGovernment, eLearning, Bio-Medical Informatics, Information Systems, Mobile Technologies and Distributed Systems, Software Engineering, Information Security, Computer Graphics, Mechatronics and Robotics
- PhD program linked to EC IST RTD priorities



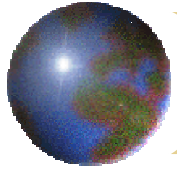
Centre of IST, Sofia University

- Large international partners' network in Europe (more than 600) and in Bulgaria (more than 300)
- Strong links with ICT industry: Intel, Cisco, HP, Oracle, MS, SAP, SMEs
- More than 50 projects related to the European Space of Higher Education (FP4, FP5, FP6, FP7, Tempus, Leonardo, Phare, etc.)
- Several projects in innovation and technology transfer
- Country Case Study at the World Bank Knowledge Economy Forum II, Helsinki, March 2003
- Organises the annual European Day of the Entrepreneur; Intel Berkeley Technology Entrepreneurship Challenge for Central and Eastern Europe



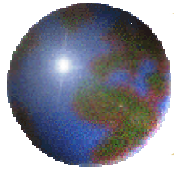
ICT related projects

- 10 projects from 6-th Framework RTD Programme
- 15 projects from 5-th Framework RTD Programme
- 7 projects from 4-th Framework RTD Programme (INCO COPERNICUS)
- Many other national and international eLearning related projects:
 - internal (at Sofia University);
 - with the Ministry of Education and Science and Ministry of Transport and Communications
 - at EC level (PHARE, Socrates-Minerva, Leonardo, Comenius)
 - World Bank, Industrial, bilateral with other universities, etc.



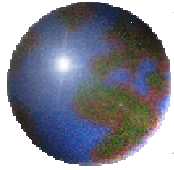
Projects from FP6

- 6FP NoE Project **KALEIDOSCOPE** “Concepts and methods for exploring the future of learning with digital technologies”,
- 6FP IP Project **TenCOMPETENCIES**: Building The European Network for Lifelong Competence Development
- 6FP STREP Project **UNITE**: Unified eLearning Environment for the School
- FP6-2004-IST-NMP-2 **PRIME** “Providing Real Integration in Multi-disciplinary Environments”
- 6FP SSA Science.and.Society.7 Project **PARCEL** “Participatory Communication Activities on E.Learning”
- FP6 SSA 016020 **ATVN-EU-GP** “Academic Internet Television Showcases the Best of Good Practice Activities”
- 6FP IP Project **GUIDE** “Creating an European Identity Management Architecture for eGovernment”, <http://www.guide-project.org>
- 6FP **BuIRMCNet** “Bulgarian Network of Research Mobility Centres”
- FP6 MOBILITY-2004-SSA REKS “**Researchers in European Knowledge Society**”

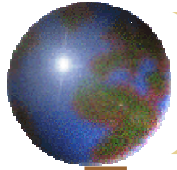


Projects from FP5

- 5FP IST-2002-5.1.15 (2002-2005) MECITV Project: **“Media Collaboration for Interactive TV”**
- 5 FP IST Project **"DIOGENE: A Training Web Broker for ICT Professionals"** - <http://www.diogene.org/>
- 5 FP 2001/C 321/17 (2002-2005) GEM-Europe Project: **“Global Education in Manufacturing”**
- 5 FP IST Project **"WebLabs: new representational infrastructures for learning"**, <http://www.weblabs.eu.com>
- 5 FP IST-1999-20852 (2000-2002) **"Best Practice Pilot for the Promotion and Implementation of Teleworking Tools at European SMEs of the Service Sector (PROTELEUSES)"**
- 5FP Innovation and SMEs IPS-2001-41103 PROMOTOR+ Project: **“Collaborative Validation and Transfer of Regional Support Measures for Start-ups and Growth in Five NACs Regions“**
- 5FP IPS-2000-056 (2001-2003) EIM – CEE Project: **“Euro Innovation Manager – Central and Eastern Europe”**



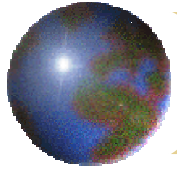
- 5 FP "Best Practice Pilot for the implementation of Integrated Internet Based Remote Working Places for Virtual Teams (IWOP)"
- 5 FP "A Picture of Social Observation of Call Centre (TOSCA)"
- 5 FP WG-ECUA+: European COTS Working Group Extension
- 5 FP EXPERT Project: "Best Practice on E-project Development Methods"
- 5 FP COCONET "Context Aware Collaborative Environments for Next Generation Business Networks"
- 5FP IST Project EUNITE - European Network on Intelligent TEchnologies for Smart Adaptive Systems
- 5 FP INNOCONS: Increasing The Awareness On Innovation In The European Construction Sector
- 5FP AFORO Project: "Agro-Food Roadmaps. A vision and work plan to implement future RTD trends for the transformation of agri-food industries into digital companies"
- 5 FP Innovation and SMEs Thematic Networks, BIGEAR NET Thematic Network on Stimulation of Business Innovation and Growth from Exploitation of Academic Research"



European Dimensions of Informatics Education

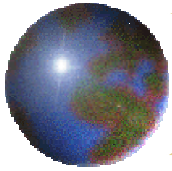
“Quo Vadis” Europe? – Bologna & Lisbon 2010

- EU suffers from under-investment in human capital, especially in higher education;
- Europe faces a chronic shortage of skilled ICT professionals – demand is expected to exceed supply by around 12% per year over the coming years;
- Need to increase of at least 15% in the number of Math, Science and Technology graduates by 2010;
- Increase of 1.2 mln R&D staff, incl. 700,000 researchers, will be needed by 2010;
- EU produces more science graduates than the US, but has significantly fewer researchers in the labour market;
- ‘Brain drain’ - 85,000 EU-born S&E employees work in the US;
- Europe of Knowledge: convergence of European Higher Education Area and European Research Area; Knowledge Triangle (education, research, innovation);
- European Technology Platforms and European Institute of Technology;
- European Year of Worker’s Mobility 2006 – mobility of researchers, teachers and students as a mean for preventing brain drain;
- Erasmus University Charter and Erasmus Student Charter (2003);
- European Charter for Researchers and a Code of Conduct for the Recruitment of Researchers (2005).



Intel seminar “The Role of Universities in the Creation of a Knowledge-based Economy” (12 October 2006)

- Modernization of European Universities
(EU Education Commissioner Ján Figel)
- University funding models across Europe
(Minister Micheál Martin)
- Investing in Higher Education
(Dr. Craig Barrett)
- The Establishment of Elite Universities in Germany
(Prof. Arndt Bode)
- From Brain-Drain to Brain-Circulation: the New Member States Perspective
(Dr. Roumen Nikolov)



The eLearning Industry Group: “eLearning has the potential to become a key engine in driving growth and creating more and better jobs in Europe.”

The European eLearning Industry Group
Promoting eLearning in Europe

Home | Activities | Members | Join eLig | eLearning Summit | Legal Clause | Links

"If Europe is to be a dominant economic and social force on the global stage it must act as a cohesive unit wherever possible. eLearning is an opportunity for Europe to utilise the power of technology for real social and educational change, bringing benefits to academia and to business. We aim to put in place realistic goals and have called upon the expertise of the world's best eLearning companies to ensure these are set. It is mainly through successful Public Private Partnerships such as this that the true vision and power of eLearning will be realised in Europe."
Mrs Viviane Reding, European Commissioner for Information Society and Media

The eLearning Industry Group, eLIG, is an open consortium of leading ICT (information and communications technology) companies and eLearning content providers who seek to promote eLearning throughout Europe, in schools, universities, the workplace and homes. It was launched on 25 April 2002 in partnership with EU Commissioner Reding.

EU eLearning Conference 2006
The conference takes place under the auspices of the Finnish EU Presidency on 4th-5th July 2006.

Digital literacy for all
Research, Foresight and Innovation for learning
Partnerships for Lifelong Learning

3 JULY Pre-conference Workshop

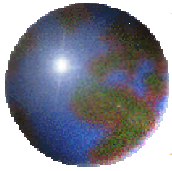
Skills for Employability - Leveraging the Power of eLearning
Improving competitiveness and employment in Europe through active lifelong learning

Time: 1300hrs - 1830hrs (to be confirmed)

Venue: Lifelong Learning Institute Dipoli at Helsinki University of Technology

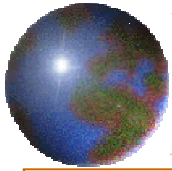
Objective
The objective of the workshop is to demonstrate how eLearning can help to address the fast changing skills requirements on a large scale and hence to create a more flexible and adaptable workforce.

ECSS 2006
Zurich, October 16-17, 2006



E-Skills Summit, Copenhagen, 17-18.10.2003

The screenshot shows the Microsoft Internet Explorer browser window displaying the website for the eSKILLS SUMMIT in Copenhagen 2002. The browser's address bar shows the URL <http://www.e-skills-summit.org/>. The website features a green header with the eSKILLS SUMMIT logo and the text "Copenhagen 2002 17-18 october". A left sidebar contains navigation links: Home, Overview, Agenda, Partners, Summit Papers, Presentations, and Photos. The main content area is titled "Welcome to the eSKILLS SUMMIT" and includes a photograph of a large audience in a conference hall. Text on the page describes the summit as a high-level conference on ICT and e-business skills, organized by the European Commission and the Danish Presidency. It also mentions the summit's role in the EU Action Plan on Skills and Mobility. A quote from Ms Anna Diamantopoulou, European Commissioner for Employment and Social Affairs, is featured on the right side. The browser's taskbar at the bottom shows several open applications, including Internet Explorer, Presentation software, Netscape, and various document files. The system tray indicates the time is 5:13 PM.



E-Skills Summit Industry Consortium & 25 Pilot Universities

The screenshot shows a Microsoft Internet Explorer browser window displaying the website <http://www.e-skills-summit.org/consortium.htm>. The page is titled "Welcome to the eSKILLS SUMMIT Website - Microsoft Internet Explorer".

eSkills Summit Industry Consortium

Representatives from the ICT industry were invited by the European Commission to actively contribute to the delivery of the eSKILLS SUMMIT. As a result, a partnership of leading ICT companies was formed. Each member of the industry consortium was charged with the delivery of one of the plenary or parallel sessions in partnership with the European Commission and the Danish Presidency. Members of the industry consortium also shared best practice or exhibited relevant solutions and services.

The eSKILLS SUMMIT Industry Consortium was lead by the following core group members

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Other companies and organisations that contributed in the Industry Consortium included:

Other companies and organizations that are contributing in the Industry Consortium are:

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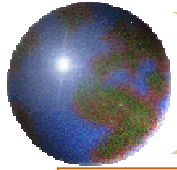
Views From Industry Leaders

"In an Industrial Europe, the countries that built the factories created employment and economic prosperity. In an eEurope, the countries that build intellectual capital will create employment and become the economic leaders of the future. Creating a workforce with the requisite eSkills is therefore an economic imperative for all member states."

Mr Robert Lloyd
President,
Cisco Systems Europe

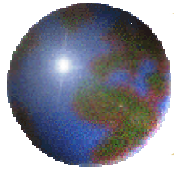
The left sidebar contains a navigation menu with links to Home, Overview, Agenda, Partners, Summit Papers, Presentations, and Photos. Below the menu, it states "The eSkills Summit is organised by" and shows logos for the European Union and eu2002.dk. It also mentions "In partnership with" and shows the eSkills Summit Industry Consortium logo.

The bottom taskbar shows several open applications: 2 Internet Explorer, Presentation-24..., 2 Netscape, 2 Microsoft Po..., 5 Microsoft Word, and Adobe Acrobat. The system clock shows 5:17 PM.



E-Skills Summit: Documents & Guidelines

- Curriculum Development Guidelines
New ICT curricula for the 21st century: designing tomorrow's education
- Determining the future demand for ICT skills in Europe
- ICT Job Profiles
- ...

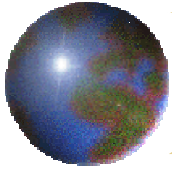


The need of new ICT programs

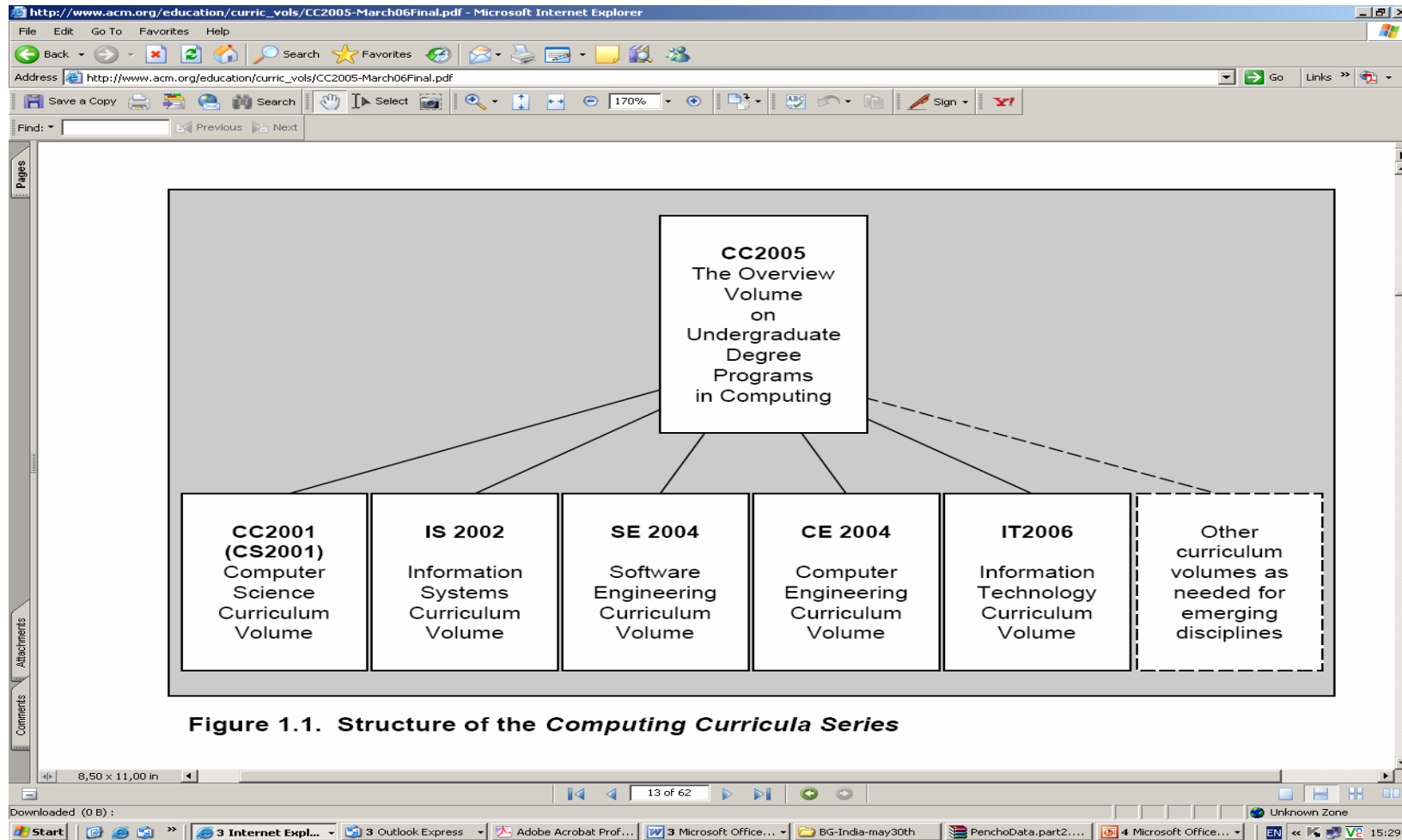
The diagram, titled "Need for New ICT Programs", is presented within an Adobe Acrobat window. It features a central orange oval labeled "Need for New ICT Programs". This central oval is flanked by two overlapping ovals: a green one on the left labeled "Covered by Traditional Engineering Programs" and a cyan one on the right labeled "Covered by Traditional Informatics Programs". Above these ovals, a large orange arch contains the text "Quantitative Need of ICT Industry".

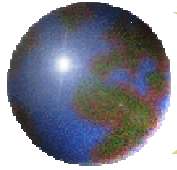
On the left side, the text "Supply and Demand" is written vertically. The diagram is divided into two main sections by a horizontal line:

- Top Section (Supply and Demand):**
 - Left: "Hardware / Electricity / Physical World based on Natural Science" (green background)
 - Right: "Software / Computing / Information World based on Structural Science" (cyan background)
- Bottom Section (Technical Skills Profiles):** A list of 14 skills profiles:
 - Radio Frequency (RF) Engineering
 - Digital Design
 - Digital Signal Processing (DSP) Applications Design
 - Technical Support
 - Communications Network Design
 - Product Design
 - Integration & Test / Implementation and Test Engineering
 - Data Communications Engineering
 - Multimedia
 - Systems Specialist
 - IT Business Consultancy
 - Software and Applications Development
 - Software Architecture and Design



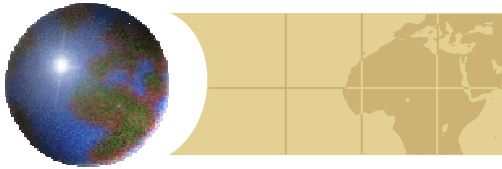
ICT Standards – ACM/IEEE Computing Curricula 2005 (CC2005)





Implementing ACM/IEEE CC2005 at Sofia University

- BSc in Computer Science
- BSc in Software Engineering
- BSc in Information Systems
- wide variety of MSc programmes
- PhD level



Computer Science

- Software specifications and design
- Project management
- Documentation
- Human-computer interaction

Tools design

ance, cy

- Designing and reasoning about

- Business value of information technology
- Strategic use of information technology
- Business processes
- Evaluation of emerging in

- Database design
- Info storage and retrieval
- Artificial intelligence
- Intelligent decision systems

- database design
- info storage and retrieval
- artificial intelligence
- intelligent decision systems

- programming
- databases
- networks
- hardware concepts
- legal and ethical is

business value of information technology strategic use of information processes evaluation of emerging information technologies

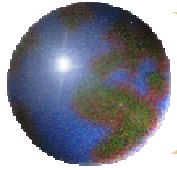
- software specification and design
- project management
- documentation
- human - compute

- hardware - software interfaces
- software methodologies, standards and metrics
- software performance, security and safety

Information Systems

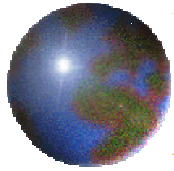
- Programming
- Databases
- Networks
- Hardware concepts
- Legal and ethical issues

Software Engineering



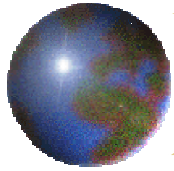
MSc Programs in Informatics

- Artificial Intelligence
- Computational Science and Engineering
- eBusiness and eGovernment
- eLearning
- Medical Informatics
- Information Systems
- Mobile Technologies and Distributed Systems
- Software Engineering
- Information Security
- Computer Graphics
- Mechatronics and Robotics
- MSIS Stevens Institute of Technology

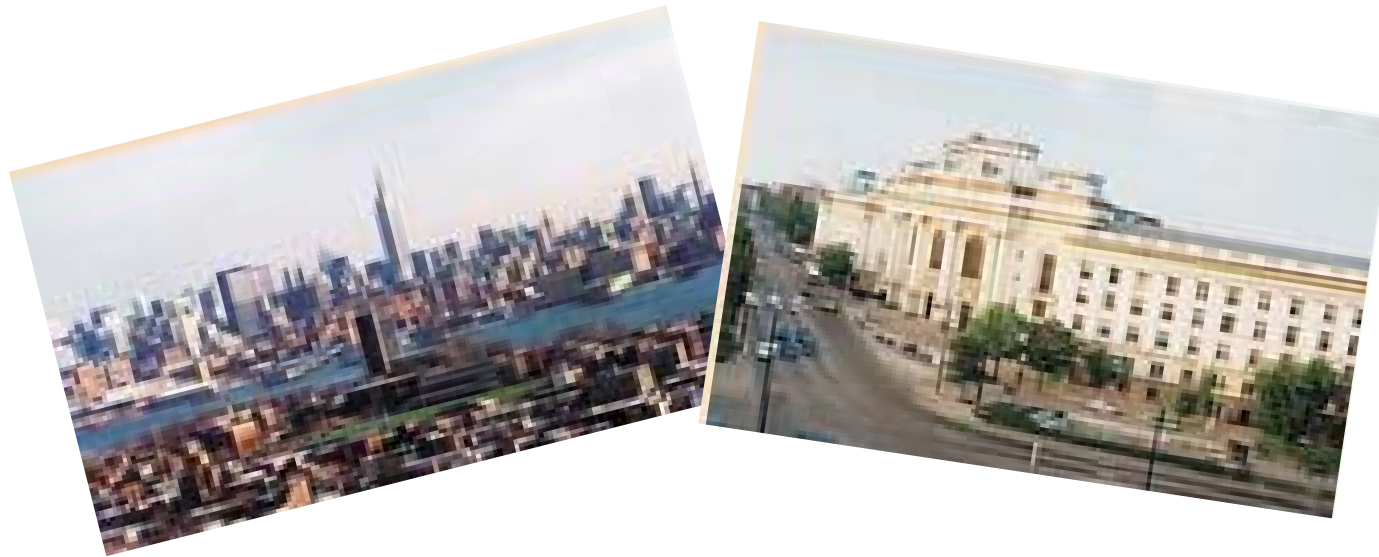


Stevens MSIS Program: Importing IT Management Competence at Sofia University (<http://www-it.fmi.uni-sofia.bg/msis/>)

The screenshot shows a web browser window displaying the website for the Master of Science in Information Systems (MSIS) program. The browser's address bar shows the URL <http://www-it.fmi.uni-sofia.bg/msis/>. The website features a navigation menu with links for HOME, GENERAL OVERVIEW, PEOPLE, NEWS & EVENTS, CURRICULUM, USEFUL LINKS, and CONTACT US. A prominent red banner across the middle of the page reads "SCOLARSHIP FOR ALL STUDENTS PROVIDED!". Below this, the main content area is titled "Master of Science in Information Systems" and includes the Stevens Institute of Technology logo on the left and the Sofia University logo on the right. The central text welcomes visitors and describes the program as a joint effort between Stevens Institute of Technology and Sofia University, highlighting the interdisciplinary nature of the curriculum and the opportunity for students to gain international experience and advanced IT management skills. At the bottom of the main content area, a red banner encourages visitors to "Become a Leader in Information Technology Management!". The browser's taskbar at the bottom shows several open applications, including Internet Explorer, Outlook Express, Adobe Acrobat, Microsoft Office, and eLearn-IDG-Sofia-M...



Become a Leader in Information Technology Management

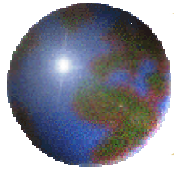


We have what you need!



ECSS 2006
Zurich, October 16-17, 2006





Regional Cisco Academy

ACADEMY CONNECTION

Welcome to the Cisco Networking Academy Program web site. Our comprehensive, global e-learning program offers students an opportunity to pursue IT curricula through online instructor-led training and hands-on laboratory exercises. As a result, students can apply classroom learnings to actual technology challenges, which ultimately prepares tomorrow's workforce for life-long learning opportunities.

Cisco Networking Academy Program

- [Networking Academy Program Overview](#)
The Cisco Networking Academy Program is a comprehensive program designed to teach students Internet technology skills.
- [Workforce Development](#)
Workforce Development initiatives give Academy students and Alumni the real work experience employers are looking for.
- [Newsroom](#)
Read the latest news and events about the Cisco Networking Academy Program.
- [Global Learning Network](#)
Proven in the Academy program, this AVID-based infrastructure integrates the elements of e-learning.
- [Digital Divide](#)
The Academy program helps bridge the gap by offering programs in key countries and to underserved populations.
- [Get Involved](#)
Participate in the Cisco Networking Academy Program — become an Academy, an instructor, a student or a sponsor.

Breaking News

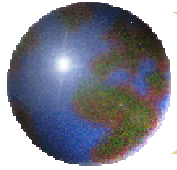
Academy Users Log In
Academy members [log in here](#).

- New User? [Learn more](#).
- Forgot your [Password?](#)

Academy Locator
[Find](#) an Academy near you.

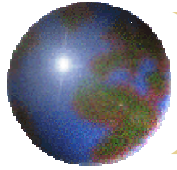
International Related Sites
[Asia Pacific](#) | [Canada](#) | [EMEA](#) | [Japan](#) | [Latin America](#)

Success Stories



Chronology

- 2000: established Regional Cisco Academy at Sofia University
- 2000-2001: certified 8 CCAI
- 2001: started teaching CCNA1-4
- 2002: started teaching IT1&2, Fundamentals of Java, Fundamentals of Unix
- 2003: started teaching CCNP
- 2005: started teaching Wireless LAN & Network Security courses



Cisco courses integrated in the University curriculum

Faculty of Mathematics & Informatics

BSc Computer Science - CCNA1 (since 2001/2002)

MSc Distributed Systems & Mobile technologies

- CCNA1-4 (since 2004/2005)
- Wireless LANs (since 2004/2005)
- IT Essentials 2 (since 2004/2005)
- Network Security (since 2005/2006)

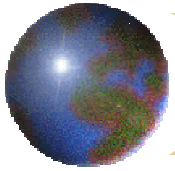
MSc Information Systems

- CCNA1 (since 2003/2004)
- Fundamentals of Unix (since 2003/2004)

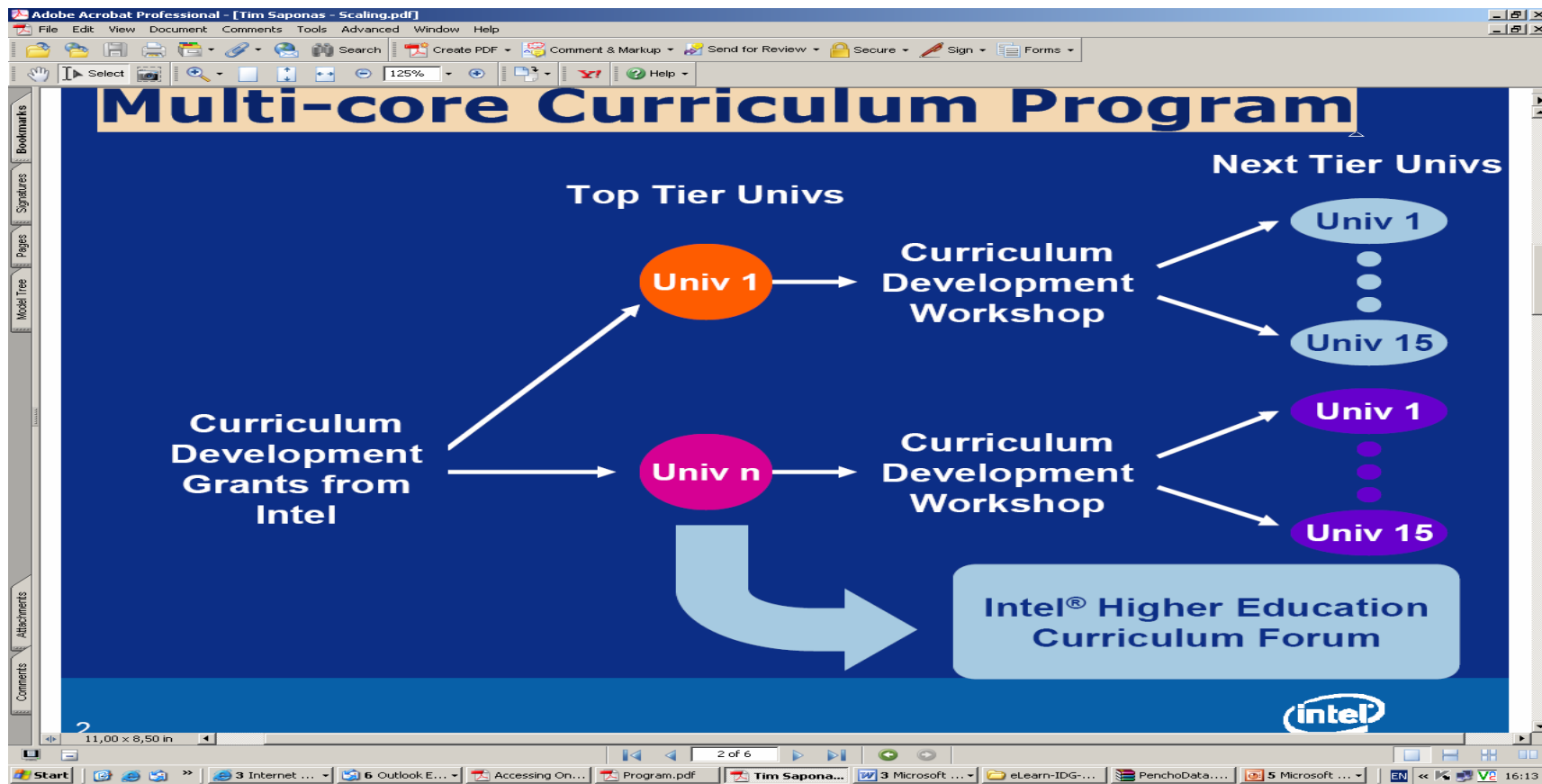
Faculty of Economics & Business

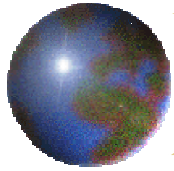
MSc Management Information Systems

- CCNA1 (since 2003/2004)
- Fundamentals of Unix (since 2003/2004)



ICT Curricula Dynamics: Intel Multi-core Curriculum Program, Sofia University joins the Top Tier University Club





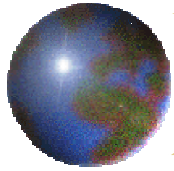
The Role of New Member States in Europe of Knowledge

- During the last 15 years the Bulgarian population has decreased by nearly 1 mln people, most of them – young and well educated specialists who fuel the Western economies. Many cases of 'brain-waste' for EU: e.g. a former CEEC researcher working as a plumber in the US or in the EU;
- CEECs loose their great investments in education (for Bulgaria the loss is bigger than the national debt);
- By February 2002, 14% of the Marie Curie fellowship holders from CEECs moved to the EU and only 0.5% of fellowship holders from the EU moved to a CEEC country.
- Erasmus, Leonardo and ERA-MORE: are they mechanisms to speed up the 'one-way' mobility? Are the CEECs considered as the main suppliers of high-skilled workers?
- Andrea, A Czech student, says "You just can't compare our infrastructures or the investments we make in the education and scientific sectors with that of other European countries
- Howard Moore, Director, ROSTE, UNESCO: "The countries of South-East Europe share some common problems to a greater or lesser extent – low investment in science, inadequate infrastructure in terms of research equipment; libraries, low industrial base and therefore very limited private sector involvement in science, and those issues lead to the chronic brain drain".

ECSS 2006

Zurich, October 16-17, 2006

27



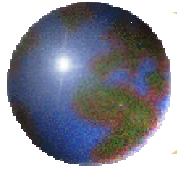
From Brain-Drain to Brain-Circulation – How To?

- The Irish model (“Celtic Tiger”) - from Brain-Drain (1980) to Brain-Gain and Brain-Circulation (1990 +);
- Commissioner Janez POTOČNIK (April 2006, Sofia): “Bulgaria should also plan the use of other EU instruments to achieve knowledge and growth. I am thinking of the Competitiveness and Innovation Programme but even more so of the use of the Structural Funds to promote research objectives”.
- Ireland has used 60% of the EC development funds for infrastructure (highways, railroads, airports, harbours), and invested most of the rest for infrastructure for the Knowledge Economy (universities, research labs, innovation and entrepreneurship, high-tech infrastructure, improving competitiveness of economy). Effect – economic boom.
- Portugal used 90% of the EC funds for building traditional infrastructure. Effect - economic crisis.
- Lisbon strategy: “Implementation of the strategic goal will be facilitated by applying a new open method of co-ordination as the means of spreading best practice and achieving greater convergence towards the main EU goals”.
- Is the EC ready to use this method for strongly guiding and monitoring (even – forcing) the NMS to apply the EU best practice models for brain-reverse (e.g. the Irish, Finish, Swedish, Danish, UK)?

ECSS 2006

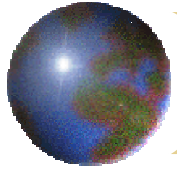
Zurich, October 16-17, 2006

28



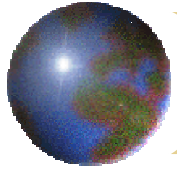
Building Europe of Knowledge Ecosystem

- Building a pan-European educational and research infrastructure
- Stimulating short-term and virtual mobility, rather than long term geographical one; Establishing better system of incentives for return back
- Establishing a European large network of virtual educational, research, innovation, technology transfer and business organisations
- Stimulating research activities and entrepreneurial education at early stages of education, even in the schools
- Establishing stronger mechanisms for technology transfer and **knowledge mobility** between EU-15 and NMS, including between different sectors, as a pre-condition for competitive business development
- Lifting the barriers for students, teachers and researchers for building their high-tech business start-ups
- Stimulating venture capital invasion, especially for early stage businesses
- Awareness-rising initiatives and events aiming at and building entrepreneurial culture as early as possible
- Building public-private partnerships for investments in educational and research infrastructure



Education and Research as a ‘Meta-Industry’

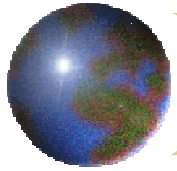
- ICT is the main instrument for turning education and research in an industry (eLearning, eResearch, eWork, eInfrastructure);
- eLearning in Informatics Education as a mean to overcome the e-skills gap
- This industry could be considered a ‘meta-industry’ since it could positively influence all other industry sectors;
- It could become the most important asset of the NMS on their way to the Knowledge Economy;
- NMS are attractive destinations for foreign direct investments (FDI), that have radically changed many industry sectors, e.g. the food and beverages sector, cement industry, non-ferrous metallurgy, wholesale trade and banking in Bulgaria;
- FDI could radically change the ‘knowledge sector’ of the industry which should be built around the real knowledge producers – universities and research institutions;
- We might expect a radical change in building sustainable ‘university-industry-government’ partnerships in NMS;
- This is a real chance for Bulgaria to leap forward into the ‘Knowledge Economy’



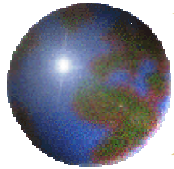
Conclusion

Informatics education is not just an academic exercise

It can be considered a main catalyst for stimulating growth and creating a competitive economy



Recent ICT public events



Intel Berkeley Technology Entrepreneurship Challenge for Central and Eastern Europe, August-October, 2006

Competition

University of California
Berkeley
Haas School of Business

intel
Education

The first Central and Eastern European business plan competition

Intel Berkeley
Technology Entrepreneurship Challenge
NOVATech Competition – 1st round August 14
Eastern European Semifinals in Sofia :

1st place : USD 20,000 ,
2nd place : USD 10,000 + other
Finals in USA : Intel Capital and Venture Capital investments

Business plan training and consultations will be provided to all

TURN INNOVATIVE IDEAS INTO REAL BUSINESS

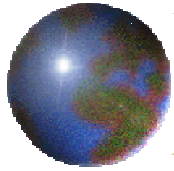
August 14 : E-round deadline (executive summaries)
Sep 21 : Full business plans deadline
Oct 6 : Semifinal in Sofia , Bulgaria
Oct 24 : World final in Berkeley , USA

E-mail: bimt@bimtbg.com Tel: (+359 2) 971 35 09/971 35 43

CONFIDENTIALITY

All judges and organizers sign confidentiality agreements. All materials and projects are destroyed after each round

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IEEE 2006 John Vincent Atanasoff International Symposium on Modern Computing, October 2006

John Vincent Atanasoff & the Birth of Electronic Digital Computing

IEEE IEEE computer society **60th anniversary**

IEEE 2006 John Vincent Atanasoff International Symposium on Modern Computing

3-6 October 2006, Sofia, Bulgaria

Under the patronage of Mr. Georgi Parvanov - President of the Republic of Bulgaria

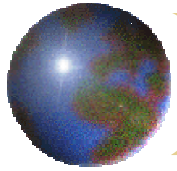
The Symposium proceedings will be published by IEEE CS Press before the event.

The invention of electronic digital computing by John Vincent Atanasoff in 1939 has changed the face of technology forever. The JVA 2006 Symposium on Modern Computing advances research areas and technologies with high potential impact on our digital society.

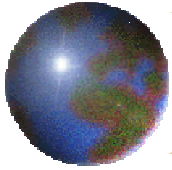
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Navigation menu items: Atanasoff.org, JVA 2006, JVA 2006 Photos, Tracks and Topics, Call for Papers, Important Dates, Paper Submission, Keynote Speakers, Advance Program, Accommodation, Registration, Local Information, Symposium Organization, Program Committee, Symposium Committee, Steering Committee, Past Symposium, General Enquiries.

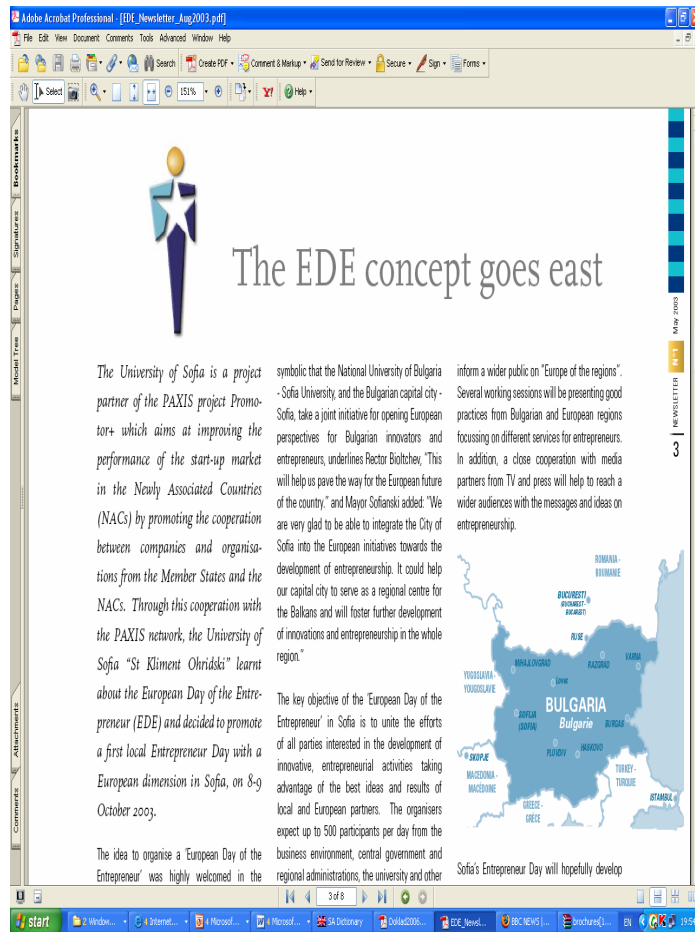
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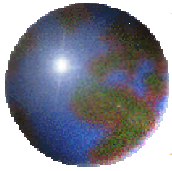
Forthcoming events



4th Sofia European Day of the Entrepreneur – November 7-8, 2006



- Main organisers: Sofia University and Sofia Municipality, in cooperation with the EC, Bulgarian Government, businesses, universities, SMEs, etc.
- Sofia – the first CEEC capital hosting EDE (2003);
- So far: 1500 visitors, 70 co-organisers, 100 foreign participants, 250 lectors, many satellite events, media coverage;
- EDE2006 under the motto “*European Funds and Regional Development*”



3rd Balkan Conference in Informatics – BCI'2007

27-29 September 2007, Sofia, Bulgaria

bci'07 September 2007, Sofia, Bulgaria

3rd Balkan Conference in Informatics - BCI'2007

General Info
Program Committee
Organizing Committee

Conference Topics

Call for Papers & Workshops
Conference Programme

Workshops

Paper Submission
Reviewers' Area

Registration & Payment
Location & Travel
Accommodation

Sponsors

Satellite events

Conference Topics

The conference welcomes submissions of original, high quality papers in all areas of Informatics. These include, but are not limited to, the following two groups of topics:

Classical subjects of Computer Science & Engineering, as classified by ACM:

1. Discrete Structures
2. Algorithms and Complexity
3. Programming Languages
4. Architecture
5. Operating Systems
6. Human-Computer Interaction
7. Graphics, Visualization, Multimedia
8. Intelligent Systems
9. Databases and Information Retrieval
10. Net-centric Computing
11. Software Engineering
12. Computational Science
13. Social, Ethical and Professional Issues

Perspective topics derived from the EC FP7 IST priorities:

14. Communication networks and Grid technologies
15. Embedded systems, reliable and efficient computing
16. E-Society
17. Information security
18. Advanced information systems
19. Knowledge-based, cognitive and learning systems
20. Simulation, visualization, interaction and mixed realities
21. Software technologies
22. Technology-enhanced learning

Important Dates:

1 April, 2007
Abstract Submission

1 May, 2007
Submission of full papers

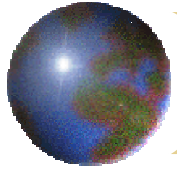
15 June, 2007
Notification of paper acceptance

1 August, 2007
Camera ready submission

Contact us
✉ bci2007@fmi.uni-sofia.bg

Print
1st Conference poster

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Paper Submission | Reviewers' Area | Registration & Payment



Thank you for your attention!