



University of Applied Sciences Fulda

**PROCEEDINGS OF THE
7th ANNUAL INTERNATIONAL
CONFERENCE
ON
COMPUTER SCIENCE AND EDUCATION
IN COMPUTER SCIENCE 2011**

**6-10 July 2011, Sofia/Dobrinishte,
Bulgaria**

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SCHEDULE

Wednesday, July 6th, Sofia, Teleconference Sessions to Boston and Fulda

- 14:30 REGISTRATION
- 15:00 OPENING
- by Prof. Lyudmil Georgiev, Rector of New Bulgarian University (NBU) and representatives of the Academic Council of NBU (Bulgaria), University of Fulda (Germany) and Boston University (USA)
- 15:15 (remote) *Experimental Implementation of the Peer Port Concept*, Andrej Stieben (D), Rumen Stainov (D) 10
- 15:45 *The MacWilliams' Identities*, Ivan Landjev (BG) 25
- 16:15 (remote) *Applications of Cumulative Subgoal Fulfillment to Linear Programming*, Eric Braude (USA)..... 43
- 16:45 COFFEE BREAK
- 17:00 *IRT Calibration of Test Items Using MATLAB*, Dimitar Atanasov (BG)..... 53
- 17:30 *Teaching a Quality Software Development Curriculum to Master Degree Students in IT Project Management*, Valentina Ivanova (BG)..... 65
- 18:00 SOCIAL EVENT: Concert: Valery Gradinarski and Jordanka Christova

Thursday, July 7th, Sofia, Teleconference Sessions to Boston and Fulda

- 9:00 SIGHTSEEING
- 13:00 LUNCH, Restaurant Artes, NBU
- 15:00 *Facilitating Quality Assurance Through a Source Code Metrics Framework*, Nikolay Grozev (BG), Neli Maneva (BG), Delyan Lilov (BG)..... 73
- 15:30 *Object-Oriented Approach for Developing Interactive 3D Graphics System in Education*, Kalinka Kaloyanova (BG), Andrey Antonov (BG) 89
- 16:00 *Finite Automata as Discrete Dynamic Systems*, Yuri Velinov (BG)..... 101
- 16:30 *Soft skills Training for Software People*, Neli Maneva (BG), Nevena Nikolova (BG).117
- 17:00 COFFEE BREAK

- 17:30 *Integrated Learning in Marketing Research and Analysis: Course Face-to-Face, Online, and Blended Format*, Vladimir Zlatev (USA).....
- 18:00 *The Course Data Mining, Taught in New Bulgarian University*, Maria Vanya Sheneva (BG).....
- 18:30 *A Digital Repository at University Department Level*, Filip Andonov Peneva (BG), Nikolay Dokev (BG).....
- 19:00 *Frontend and Backend Code Reuse in Web Applications*, Velislav Nikolaev (BG).....
- 19:30 *Request Chaining in Web Services*, Stoyan Krastev (student, BG).....

Friday, July 8th, Dobrinishte (Hotel Makedonska Krachma)

- 8:00 TRIP TO DOBRINISHTE OVER RILA MONASTRY (by cars)
- 13:30 LUNCH IN DOBRINISHTE
- 14:30 *End-to-End Queue Dimensioning in IP Networks with Heterogeneous Traffic*, Goleva (BG), Vasil Kadrev (BG).....
- 15:00 *Adaption and Improvement of an Industry-Developed IP Telephony*, Christian Pape (D), Christoph Seifert (D).....
- 15:30 *Dimensions of Course Design and Delivery and Their Effect on Student Satisfaction/Perception in Online Learning*, Tanya Zlateva (USA), Svetlana Zlateva (USA), Suresh Kalathur (USA), Robert Schudy (USA), Leo Burstein (USA), Chitkushev (USA), Masatake Saito (USA), Elizabeth M Haines (USA).....
- 16:00 COFFEE BREAK
- 16:30 *A Framework for Software Project Cost Estimation*, Vijay Kanabar (USA).....
- 17:00 *Digital Library and Search Engine of Bulgarian Folklore Songs*, Kiril Nikolay Kirov (BG).....
- 17:30 *The METASPEED Project – A progress Report*, Juliana Peneva (BG), Ivanov (BG), Philip Andonov (BG), Nikolay Dokev (BG).....
- 18:00 *Document Line Segmentation Based on Wavelet Transform*, Lasko Laskov (BG).....
- 19:00 SOCIAL EVENT

Saturday, July 9th, Dobrinishte

9:00	<i>Information Analyses of Industrial Critical Information Infrastructure</i> , Dimitrina Polimirova (BG), Eugene Nickolov (BG).....	277
9:30	<i>Teaching Implementational Aspects of Distributed Data Management in a Practical Way</i> , Christian Pape (D), Peter Peinl (D).....	287
10:00	COFFEE BREAK	
10:30	<i>Integrating Informatics into Graduate Finance Programs</i> , Irena Vodenska (USA), Lou Chitkushev (USA), Tanya Zlateva (USA).....	307
11:00	<i>BIEM Solution for Cracked Finite Piezoelectric Solids Using Mathematica</i> , Marin Marinov (BG), Tsviatko Rangelov (BG).....	327
11:30	<i>Some Algorithmic Problems for Students' Critical Thinking Skills Development</i> , Galina Atanasova (BG).....	341
12:00	<i>Methods of Prevention, Protection and Recovery of Cloud Computing Environment</i> , Eugene Nickolov (BG), Dimitrina Polimirova (BG).....	355
12:30	<i>Best Practices in Training Informatics Competition Participants</i> , Plamenka Hristova (BG).....	371
13:00	<i>University-Business Cooperation on IT Sphere</i> , Petya Asenova (BG).....	385
13:30	LUNCH	
14:30	PANEL DISCUSSION	
15:00	SIGHTSEEING	

Sunday, July 10th, Dobrinishte

9:00	FIELD TRIP SEMINAR NEAR HUT BEZBOG
17:00	RETURNING TO SOFIA (by cars)