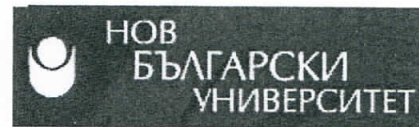




University of Applied Sciences Fulda



PROCEEDINGS OF THE
6th ANNUAL INTERNATIONAL CONFERENCE
ON
COMPUTER SCIENCE AND EDUCATION IN
COMPUTER SCIENCE 2010

26-29 June 2010, Fulda/Munich, Germany

Chairmen: Rumén Stainov (Germany), Lou Chitkushev (USA), Ivan Landjev (Bulgaria)

General Secretaries: Peter Peinl (Germany), Vijay Kanabar (USA), Petya Assenova (Bulgaria)



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Organized by:

University of Applied Sciences Fulda, Germany
Boston University, USA
New Bulgarian University in Sofia, Bulgaria

Organizing Committee: Prof. Rumen Stainov (D), Assoc. Prof. Ljubomir Chitkushev (USA), Assoc. Prof. Stanislav Ivanov (BG), Assoc. Prof. Tanja Zlateva (USA), Assoc. Prof. Petya Assenova (BG), Prof. Peter Peinl (D), Assoc. Prof. Marin Marinov (BG), Prof. Ivan Landjev (BG)

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Ivan Landjev (BG)
Petya Assenova, New Bulgarian University (BG)

“La sensibilité de l’homme aux petites choses et l’insensibilité pour les grandes choses, marque d’un étrange renversement.” (Blaise PASKAL, 1623-1662, Pensées)

„Es ist überall *nichts in der Welt*, ja überhaupt auch außerhalb derselben zu denken möglich, was ohne Einschränkung für gut könnte gehalten werden, *als allein ein guter Wille*“
(Immanuel KANT, 1724-1804, Grundlegung zur Metaphysik der Sitten)

“There is but *one safe way to avoid mistakes*: to *do nothing* or, at least, to *avoid something new*. This, however, in itself, may be the *greatest mistake of all*” (Albert SZENT-GYÖRGYI; 1893-1986, Nobel Laureate, in: Bioenergetics, Foreword 1957)

SCHEDULE

Saturday, June 26th, Fulda, Teleconference Sessions to Boston and Sofia

- 14:30 REGISTRATION (room E109)
- 15:00 OPENING
by Werner Winzerling, Dean Computer Science Department, University of Applied Sciences Fulda
- 15:15 (remote) A NETWORK APPROACH TO THE FINANCIAL SYSTEM, V. Slavova (BG), L. Mirchev (F), Hr. Elefteridis (BG) 7
- 15:45 (remote) USING MULTICRITERIA DECISION SUPPORT SYSTEM FOR CHOOSING PRECISION ANALOGUE INSTRUMENTAL AMPLIFIERS, F. Andonov (BG), G. Petrov (BG) 18
- 16:15 (remote) SPECIFICS OF VISEMES SELECTION FOR BETTER VISUAL PLAUSIBILITY, V. E. Gueorguiev (BG) 25
- 16:45 COFFEE BREAK
- 17:00 (remote) PROBLEMS IN THE DIGITALIZATION OF X-RAY, ULTRASONIC AND DOPPLER MACHINE IMAGES, D. V. Georgieva (BG), V. E. Gueorguiev (BG), I. E. Ivanov (BG) 31
- 17:30 (remote) DYNAMIC END-TO-END QUEUE DIMENSIONING IN DISRUPTION-TOLERANT NETWORKS, R. Goleva (BG), S. Mirtchev (BG) 38
- 18:00 (remote) SOME ASPECTS OF IMPLEMENTING ITIL, K. Kaloyanova (BG) 48
- 18:30 (remote) DIRECT3D VIDEO PLAYBACK DRIVER FOR MPLAYER, G. Petrov (BG) 54

Sunday, June 27th, Fulda, Teleconference Sessions to Boston and Sofia

- 9:00 SITE SEEING
- 13:30 LUNCH
- 15:00 INNOVATIVE IMPLEMENTATION OF WEB-BASED TOOLS FOR FINANCE EDUCATION, I. Vodenska (USA) 60

- 15:30 A UNIFIED APPROACH FOR DESIGNING, DEVELOPING, AND EVALUATING ONLINE CURRICULA, T. Zlateva (USA), M. Saito (USA), S. Kalathur (USA), R. Schudy (USA), A. Temkin (USA), L. Chitkushev (USA) 70
- 16:00 INFORMATION SECURITY ANALYSIS OF E-LEARNING SYSTEMS, D. Polimirova (BG), E. Nickolov (BG) 83
- 16:30 COFFEE BREAK
- 17:00 THEORETICAL FOUNDATIONS OF SECRET SHARING, I. Landjev (BG) – **Best Paper Award** 93
- 17:30 CRITICAL EDUCATION INFORMATION INFRASTRUCTURE'S INFORMATION SECURITY ANALYSIS, E. Nickolov(BG), D. Polimirova (BG) 111
- 18:00 TIGHTLY COUPLING WEB ANALYTICS WITH SEO KEYWORDS AND WEB DESIGN, V. Kanabar (USA) 121
- 18:30 (remote) RESULTS OF USING RUBRICS TO IMPROVE GRADE OBJECTIVITY IN AN ONLINE COURSE, V. Shtern (USA) 134

Monday, June 28th, Munich (Hotel Ibis Nord)

- 8:30 TRIP TO MUNICH (by cars)
- 13:00 LUNCH
- 14:00 A LINEAR APPROXIMATION SCHEME FOR PLANAR CLOSED CONTOURS WITH $2n$ NUMBER OF EQUALLY SPACED POINTS, L. Laskov (BG) 144
- 14:30 AN APPROACH TO TEACHING IT PROJECT MANAGEMENT IN A MASTERS PROGRAM, V. Alexiev (BG), P. Asenova (BG) 151
- 15:00 SOLUTION OF INTEGRO-DIFFERENTIAL EQUATIONS USING MATHEMATICA WITH APPLICATION IN FRACTURE MECHANICS, M. Marinov (BG), T. Rangelov (BG) 159
- 15:30 COFFEE BREAK
- 15:45 PEER PORTS FOR LAYERED P2P STREAMING, R. Stainov (D) 168
- 16:15 ASTROINFORMATICS: IMAGE PROCESSING AND ANALYSIS OF DIGITIZED ASTRONOMICAL DATA WITH WEB-BASED IMPLEMENTATION, N. Kirov (BG), O. Kounchev (BG), M. Tsvetkov (BG) 176
- 18:00 SOCIAL EVENT