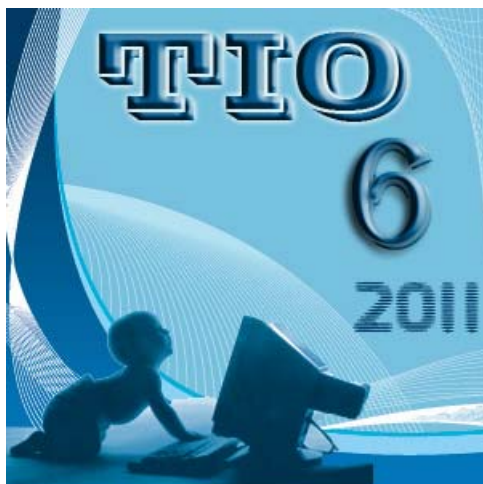## 6TH INTERNATIONAL SYMPOSIUM

❖ **Organizers:**
University of Kragujevac
Technical Faculty Čačak
Institute for Educational research, Belgrade
Centre for development and application of science, technology and informatics, Novi Sad

❖ **Co-Organizers:**
Faculty of Technical Sciences, University of Novi Sad
Technical Faculty "Mihajlo Pupin", Zrenjanin
Teacher's Training Faculty, Belgrade
Faculty of Philosophy, Banja Luka, Republic of Srpska
Faculty of Philosophy, Skopje, Macedonia
Faculty of Philosophy, Nikšić, Montenegro
Regional Centre for Professional Development of the Educational Staff of Čačak

PROGRAMME

TIO 6 2011

Technology, Informatics and Education

– for learning and knowledge society –

ČAČAK, 3rd – 5th, june 2011.

SCIENTIFIC COMMITEE

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13. Prof. Dragan Soleša, dean of Faculty of Information Technologies, Alfa University, Belgrade, Serbia
14. Prof. Ramo Šendelj, dean of Faculty of Information Technology, Podgorica, Mediteran University,

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15. Prof. Mirela Toth-Tascau, Faculty of Mechanical Engineering, Timişoara, Politehnica University of Timişoara, Romania
16. Prof. Matjaž Debevc, Faculty of Electrical Engineering and Computer Science, Maribor, University of Maribor, Slovenia
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23. Prof. Dragana Bjekić, Technical faculty Čačak, University of Kragujevac, Serbia
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25. Prof. Miloš Radovanović, Technical faculty Čačak, University of Kragujevac, Serbia
26. Prof. Vlade Urošević, Technical faculty Čačak, University of Kragujevac, Serbia
27. Prof. Momčilo Vujičić, Technical faculty Čačak, University of Kragujevac, Serbia
28. Prof. Snežana Dragićević, Technical faculty Čačak, University of Kragujevac, Serbia

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Ministry of Education and Science of the Republic of Macedonia
University of Kragujevac
UNESCO – National ICT committee
Pedagogy Forum of Serbia and Montenegro
Union of Workers in Education of the Republic of Macedonia

CONFERENCE VENUE

TIO6 Symposium will be held in Čačak at Technical Faculty Čačak, St. Save Street 65, from 3rd to 5th June, 2011. Within the symposium, on Sunday 5th June at 10,00h, Assembly of Teaching Staff of Technics, Informatics and Education of Southeast Europe (TIE-SOE) will be held and all important matters in the jurisdiction of the Association (details on the symposium website) will be discussed. A roundtable titled "Current Issues in IT education in Serbia" will be held on 4th June at 18 pm in Hall 232.

THEMATIC FIELDS

TECHNOLOGY, INFORMATICS AND EDUCATION

- Programs and methods of education, preparation and professional development of the teachers in the fields of technics and IT education
- Innovation, adaptation, concepts and methods of curriculum realization in IT education at all educational levels
- Material conditions and possibility of realization of objectives and tasks of IT education
- Possibilities of scientific research on the application and use of information technology
- International experience in this field in relation to the method of application and use of new technology in educational process
- Possibilities of discovering connections between IT education and contents of other subjects

CONTACT ADDRESSES

Chairman: Prof. Dragan Golubović,
Phone No: 032/302-722, E-mail: golubd@tfc.kg.ac.rs

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Technical Faculty Čačak:

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E-mail: simpozijumtio6@tfc.kg.ac.rs

EXIBITION AND TOURIST PROGRAMME

Instructional aids
Publications
Posters

An exhibition of sponsor (donor) products will be held within the Symposium as well as display of their product range through brochures or other promotional material.
Participants of the Symposium can also take part in an organized tour to Monasteries in Ovčar-Kablar Gorge.

ACCOMMODATION

Participants can make accommodation reservations directly by calling the following phone numbers:

Hotel "Beograd"	+381 32 224 593
Motel "Livade"	+381 32 381 088
Motel "Kole"	+381 32 381 804
Motel "Čačak"	+381 32 546 1030

SCHEDULE OF EVENTS

3rd June 2011.

$17^{00} – 20^{00}$	Registration of Participants and Guests

4th June 2011.

$8^{00} – 10^{00}$	Admission of Participants
$10^{00} – 10^{30}$	Conference Opening
$10^{30} – 12^{00}$	Plenary Session
$12^{00} – 14^{00}$	Cocktail party
$14^{00} – 16^{00}$	Papers Presentation in Sections
$16^{00} – 16^{30}$	Pause (Coffee Break)
$16^{30} – 18^{00}$	Papers Presentation in Sections
$18^{00} – 19^{30}$	Round Table – Current issues at Technics and Informatics in Serbia
$20^{00} – 24^{00}$	Dinner party (Hotel Beograd)

5th June 2011.

$10^{00} – 12^{00}$	Assembly of Teaching Staff of Technics, Informatics and Education of Southeast Europe (TIE-SOE)
$9^{00} – 15^{00}$	Organized Tour to Monasteries in Ovčar-Kablar Gorge
$15^{00} – 16^{00}$	Conference Closing

Note: The papers included in the programme will be presented orally. The time of the paper presentation is limited to ten minutes. Presentations of the papers can be prepared on PC in Power Point software.

PROGRAMME

Venue	Technical faculty Čačak

Friday	3rd June 2011.

$17^{00} - 20^{00}$	Registration	Faculty hall

Saturday	4th June 2011.

$8^{00} - 10^{00}$	Admission of Participants	Faculty hall

$10^{00} - 10^{30}$	Conference Opening	Amphitheatre 21
Chairman:	**Chairmanship**	

$10^{30} - 12^{00}$	SECTION 1 Plenary Session	Amphitheatre 21
Chairman:	**Chairmanship**	

1.1. **Mirčeta Danilović**
A teacher as a role model, idol, ideal, symbol, value, ie. measure of perfect and versatile educated person
1.2. **Slobodan Popov**
Informatics and correlation - integration processes in education
1.3. **Miroslav Demić**
The turning to the education for the technical development
1.4. **Dragan Golubović**
Modern methods of education in technology and informastics science for learning and knowledge society

$12^{00} - 14^{00}$	Cocktail party	Faculty hall

$14^{00} - 18^{00}$ $16^{00} - 16^{30}$ Pause	SECTION 2: **Pedagogical dimendions of knowledge and learning society**	Lecture Hall 111
Chairman:	**Mirčeta Danilović, Stanoje Ivanović, Drago Branković**	

2.1. **Snežana Mirkov**
Concstructivist paradigm and education for knowledge-based society: progressive discourse in instruction
2.2. **Petar O. Dmitrović**
Possible ways of modernizing educational proces
2.3. **Jelena Premović, Ljiljana Arsić, Tamara Premović**
Knowledge society and economy based on knowledge

2.4. **Radoš Radivojević, Alpar Lošonc**
Scientific-technological potential, transition, and nowledge society
2.5. **Alpar Lošonc, Radoš Radivojević**
The crisis as the process of creating of knowledge - the education in crisis
2.6. **Sanja Stanisavljev, Željko Miladinović, Snežana Jokić, Branko Markoski**
Knowledge and innovation – factors for the survival of the new organization
2.7. **Paun Bereš, Kristian Bereš**
Biodigestor and heuristic education
2.8. **Miroslav Kuka, Milica Miletić**
Kuka-miletic program standards for pre-school age
2.9. **Zorica Vlajkovac**
Inclusive education of gifted junior students
2.10. **Albina Milanov**
Copyright, plagiary, artwork and postmodernism
2.11. **Jelena Maksimović**
Statistical methods in educational research and modern technology education
2.12. **Ljiljana Lj. Bulatović, Goran Bulatović, Olja Arsenijević**
Media literacy - basis of learning in the age of digitaltechnology
2.13. **Gabriela Kelemen**
Ways of using new technologijes in education
2.14. **Lizica Mihut**
Language nad communication. Methodological aspects concerning difficulties of learning romanian language
2.15. **Snežana Kirova**
Rosetta stone software – an interactive educational tool for learning foreign languages
2.16. **Vesna Đokić, Veljko Aleksić**
Digital stories usage in english language teaching
2.17. **Emilija Petrova Gjorgjeva, Snežana Kirova**
Information – communication technologies in teaching (prerequisites and perspectives)
2.18. **Mira Vidaković**
Communication ethics in the information society
2.19. **Predrag Ružičić**
Trust yourself and your neighbour to be free
2.20. **Anton Ilica**
From "Paideia" to "Pansophia" – essay about curriculum
2.21. **Miro Blečić**
Effects of captal investments on the economic devlopment of montenegro
2.22. **Cvetanka Mitrevska, Vesna Mundiševska-Veljanovska, Vangelka Trajkovska**
Computer-based teaching and learning
2.23. **Olivera Knežević-Florić, Stefan Ninković**
Multimedia as social - cultural sources of education
2.24. **Andrijana Šikl**
Modern educational technology: effects of multimedia in teaching
2.25. **Predrag Prtljaga**
Information recycling
2.26. **Ana Novković**
Innovative models in shaping educational content for educational computer software

$14^{00} - 18^{00}$ $16^{00} - 16^{30}$ Pause	SECTION 3: **Teachers and schools in IT environment**	Lecture Hall 12
Chairman:	**Dragana Bjekić, Snežana Babić – Kekez**	

3.1. **Ljiljana Grujić**
Supervision – a model of personal and professional teacher development
3.2. **Gordana Miščević Kadijević**
The attitudes of kindergarten teachers towards the use of computer
3.3. **Ljiljana Dmitrić, Marina Janković**
We play - learn
3.4. **Marina Janković, Ljiljana Dmitrić**
The computer use in school program preparation
3.5. **Sashko Plachkov, Nikolay Tsankov**
The digital competence of teachers: an innovational characteristic of the established professional profile
3.6. **Bisera Jevtić**
Professional qualification for the information competence pedagogues
3.7. **Ljiljana Đurović**
Competencies of a teacher with regards to textbook valuation
3.8. **Snežana Babić-Kekez**
Self-assessment of educational needs of teacher
3.9. **Svetlana Obradović, Dragana Bjekić, Lidija Zlatić**
Teacher education to teaching in e-environment of students with specific learning disabilities
3.10. **Miloš Jovičić, Goran Zarić**
Organizational culture in primary schools and its role in improving the educational process
3.11. **Rada Karanac, Željko Papić, Slobodan Jolović**
promotion and marketing in the education system
3.12. **Divna Todorović, Vesna Ružičić**
Swot analysis in the school development planning
3.13. **Jezdimir-Luka Obadović**
ICT integration and management in the process of education
3.14. **Izudin Zemanić**
Implementation of information technology in the management of schools
3.15. **Mile Penkov**
Use of educational technology in the library school
3.16. **Čedomir Ivanović**
Reaching the Safe School through Safety Culture
3.17. **Snežana Mijailović**
The level of using the modern educational technology in gimnazija "takovski ustanak" in gornji milanovac, the effects of its appliance and the possibilities for improving the actual condition

$14^{00} - 18^{00}$ $16^{00} - 16^{30}$ Pause	**SECTION 4:** **E-learning**	Lecture Hall 216
Chairman:	**Danijela Milošević, Muzafer Saračević**	

4.1. Zoran Savić, Marko Popović, Igor Ristić
   One approach to m-learning modelling
4.2. Marko Popović, Zoran Savić, Igor Ristić
   Defining and evaluation criteria for m-learning
4.3. Zoran Vučetić, Borislav Odadžić, Ankica Vučetić
   Designing web applications for mobile learning in practice
4.4. Siniša G. Minić, Dragan Kreculj, Miloš Vorkapić
   Use and importance of wlan and mobile technology in teaching
4.5. Snežana Stavreva Veselinovska
   How to use an active board in the classroom
4.6. Risto Hristov, Ljupčo Krstevski, Ljupčo Sofijanov
   Learning styles and mechanisms for adapting in educational adaptive hypermedia systems
4.7. Gorgi Dimov, Zoran Zdravev
   Using online tools for effective learning in basic it courses
4.8. Dragan Stanković, Vesna Nikolić, Ana Stanković
   Rapid prototyping of heuristic optimization algorithms for utilization in collaborative learning systems
4.9. Branka Arsović
   Application of hypermedia systems in aspect of adaptive e-learning
4.10. Muzafer Saračević, Danijela Milošević, Esad Međedović, Fadil Novalić
   Some suggestions of improving the teaching of mathematics using tools for e-learning
4.11. Ljiljana Božić, Radojka Krneta
   A research on the opinions and attitudes of the teachers towars introducing e-learning into secondary vocational schools
4.12. Miloš Papić, Radislav Vulović, Nikola Dragović, Nebojša Stanković
   A e-learning – new methods of comunication
4.13. Marjan Milošević
   Adaptivity in e-assessment
4.14. Miloratka Simeunović
   Modernising primary and secondary vocational education by introducing E Learning
4.15. Jasminka Ristić
   Using the internet on-line tool with resources in teaching (zunal.com-webquest)
4.16. Andrej Trifković
   Creating of scorm content using microsoft learning essentials

$14^{00} - 18^{00}$ $16^{00} - 16^{30}$ Pause	**SECTION 5:** **IT in University Education**	Lecture Hall 14
Chairman:	**Dragan Golubović, Snežana Dragićević, Dragan Soleša**	

5.1. Dragan Soleša, Bratislav Blagojević
   Conceptual model of developing curriculum of IT
5.2. Dejan Ivezić, Dušan Danilović, Vesna Karović Maričić, Marija Živković
   New study profile at faculty of mining and geology - gas technology
5.3. Milorad Rančić, Smiljana Mirkov, Marija Matotek
   Some experience in applying modern COMPUTER technology degree programs in mechanical engineering at the professional studies
5.4. Vlado Simeunović, Ljubiša Preradović, Sanja Milić
   Using databases in decision support on universities
5.5. Meliha Zejnilagić, Zalkida Hadžibegović, Ines Nuić, Semira Galijašević
   Informatics literacy and computer education usage: the case of chemistry and physics students at the University of Sarajevo
5.6. Smiljana Mirkov, Marija Matotek, Marija Runić-Ristić
   Recruitment and socialisation of the it profession
5.7. Vladimir Radovanović, Ljiljana Savić
   Education and training on the internet
5.8. Olja Arsenijević, Goran Bulatović, Ljiljana Lj. Bulatović
   The importance of harkins' atittudes of managers in the media
5.9. Elena Nikolova – Andreeva, Svetlana Vasileva
   Application of Information technology in education "Herbology"
5.10. Danijela Milošević, Marija Blagojević, Maja Božović
   Application of modern information communication technology in medical teaching
5.11. Slobodan Aleksandrov, Radica Aleksandrov, Predrag Simić
   Usage of modern didactic system in education in area of mechatronic engineering
5.12. Veljko Aleksić, Željko Papić
   Teaching with tablet pc
5.13. Nebojša Stanković, Miloš Papić, Radislav Vulović
   Student assessment of subjects in the information technology field
5.14. Zdravko Ivanković, Branko Markoski, Ružica Ivković, Predrag Pecev, Višnja Istrat
   Source code compilation into managed modules
5.15. Radomir Slavković, Nedeljko Dučić
   The application of cad/cam technology in manufacturing processes
5.16. Snežana Radonjić, Jelena Baralić, Nedeljko Dučić
   Determination of static friction factor by using tribometer
5.17. Đorđe Damnjanović, Radojka Krneta, Nebojša Stanković
   Visualization of digital signal processing teory using Matlab
5.18. Marko Rosić, Miloš Božić, Miroslav Bjekić
   Eight-phaze Scott-T transformer: construction, visualization and application
5.19. Miloš Božić, Marko Rosić, Miroslav Bjekić
   Visualization procedure of synchronous generator synchronization to the network
5.20. Ivan Garović, Branko Koprivica, Alenka Milovanović
   Realization of laboratory exercises in area of electrical measurements by applaying virtual instrumentation
5.21. Igor Savić, Darko Nedeljković, Bojana Pavlović, Radovan Ćirić
   Planning and performing the experiment in educational purposes and product development
5.22. Sreten Obradović, Dragana Beljić, Svetislav Marković
   Strength analysis of machine partsusing software packages

$14^{00} - 18^{00}$ $16^{00} - 16^{30}$ Pause	**SECTION 6:** **IT application in education**	Lecture Hall 15
Chairman:	**Živadin Micić, Miroslava Ristić**	

6.1. Natalija Jovanović
   The importance of informacion knowledge in teaching modernizacion
6.2. Jelena Đekić-Lović, Obrad Aničić, Milica Janković
   Introduction of computer techniques in the teaching process
6.3. Zoran Zdravev, Margita Kon Popovska, Jovan Pehčevski
   Localization and internationalization of digital learning resources
6.4. Radislav Vulović, Miloš Papić, Dragana Jugović
   Man-computer interaction and ergonomic issues
6.5. Gordana Marković
   An improvement of education by using the educational software
6.6. Obrad Aničić, Jelena Đokić-Lović
   Application of computers in education
6.7. Živadin Micić, Marija Blagojević
   Standardizacija predstavljanja znanja u it
6.8. Kiril Cackov, Despina Sivevska
   Application of computers and educational computer software in teaching nature and society
6.9. Miroslava Ristić, Zoran Vosika
   Using internet resources in teaching of quantum computer
6.10. Branko Lučić, Snežana Lučić
   Application of computer game lugram in teaching mathematics for pupils i-iv grade of primary school
6.11. Vojislav Ilić
   Some aspects of the use of internet in teaching visual art
6.12. Jasmina Živković
   Curcumstances that affect the use of technology in music education
6.13. Ajsela Hadžiahmetović, Muzafer Saračević, Danijela Milošević, Esad Međedović
   Applets in teaching as a function of motivation in support talented students
6.14. Slavica Dimitrijević, Zoran Mitrašinović
   Efficiency of computer application in the development of motor skills of children
6.15. Zoran Mitrašinović, Slavica Dimitrijević
   The advantages of using modern information and communication technology in teaching physical education
6.16. Branko Markoski, Zdravko Ivanković, Predrag Pecev, Zoran Milošević, Višnja Istrat
   Transfer of basic basketball statistical parameters via internet
6.17. Vladimir Beravs, Predrag Pecev, Petar Vasiljević, Višnja Istrat, Branko Petrevski
   Usage of social networks in basketball data gathering
6.18. Uglješa Ivanović
   Physical education, sport and sport recreation informatization
6.19. Vladimir Popov
   The role of information technology in working with children in the extended stay
6.20. Sanja Maričić, Daliborka Purić
   Application of information technology in teaching of primary school
6.21. Maja Timovska
   Using knowledge to save lives in case of earthquake
6.22. Vladeta Milin, Snežana Milin Perković
   Corelation between internet usage and reading literacy of the students in serbia

6.23. Jelena Marić
Influence increased office productivity using the understanding book reports

6.24. Tanja Beljkaš, Leposava Dulović, Branko Marković
Implementation of the e–government at a municipality level

6.25. Vesna Kovačević
Bridging the gap between the classroom and reality (ESP) task based/topic centred learning

6.26. Tatjana Marinković
Professional development of teachers in the function of improving teaching using INFORMATION TECHNOLOGY

6.27. Gordana Rackov
Computer in function of more efficient organise of differentiated instruction

$14^{00} – 18^{00}$ $16^{00} – 16^{30}$ Pause	**SECTION 7:** **Education in Technics and Informatics**	Lecture Hall 16
Chairman:	**Slobodan Popov, Željko M. Papić,** **Aleksandra Grujić – Jankuloski**	

7.1. Miodrag Pantelić, Dragan Golubović,
Zora Jugović, Nebojša Stanković
Global problems of the planet earth in the era of informatic techologies

7.2. Irina Kovačević
Tehnology, ecology and education

7.3. Lazar Stošić
Pedagogues readiness in technical and information education

7.4. Miloš Soro
Educational standards - factor to improve teaching tio

7.5. Sulejman Meta, Ardrita Muharemi
Some problems of implementation and admission of standards in construction of the wooden roofs of modern buildings

7.6. Mara Šiljak, Mile Šiljak, Ivan Tasić
Observation of creativity at teaching of technical education in primary schools

7.7. Ivan Tasić, Jelena Tasić, Mara Šiljak, Dajana Tubić
realization of the informatics literacy of primary schools pupils through the teaching of technical and informatics education

7.8. Rada Majstorović, Vesna Đokić,
Veljko Aleksić, Nebojša Stanković
Tnglish language usage in teaching TIE

7.9. Nedeljko Dučić, Mladen Raković
Analysis of using applets and interactive whiteboard during the implementation of teaching unit "term, types, purpose and construction of robots"

7.10. Bojana Vesković, Miloš Marković, Mladen Polić
Appliance of tutorial in teaching technical education and informatics on the example of google SketchUp

7.11. Danilo Šešelj, Dragan Golubović, Stanislav Stevuljević
Influence of informatic technologies on technical creativity in rocket modeling

7.12. Petko Andrić, Danilo Šešelj, Stanislav Stevuljević
ProgeCad in teaching education information

7.13. Vesna Šimšić, Željen Šimšić
Vibration control of smart structures

7.14. Danilo Mikić, Aleksandar Ašonja, Aleksandar Vulević
Object-oriented programming visual basic in technology

7.15. Aleksandar Ašonja, Danilo Mikić, Živoslav Adamović
The justification for the use of special solutions of automatic lubrication system

7.16. Ivan Milićević, Dragan Golubović
Interface tehnology and education

7.17. Sanja Spasić
Application of educational software Virtual labs electricity DL in teaching of TIO

$14^{00} – 18^{00}$ $16^{00} – 16^{30}$ Pause	**SECTION 8:** **Softwares in Teaching**	Lecture Hall 17
Chairman:	**Siniša Randić, Milica Andevski**	

8.1. Milica Andevski, Jasmina Arsenijević
Media competence in the context web 2.0

8.2. Marjana Pardanjac, Snežana Jokić, Erika Eleven
Didactical aspects of teaching chemistry realized through the educational softwer "Saharidi"

8.3. Goran Bulatović, Ljiljana Bulatović, Olja Arsenijević
Creating learning networks on a platform of digital media

8.4. Munir Šabanović
Comparison of desktop, Web and Web 2.0 applications

8.5. Nevena Perić
Use Web 2.0 tools in elementary schools - imperative of modern education

8.6. Željko Eremić
Ranking of shortcuts of adaptive web sites in the function of efficient information access

8.7. Snežana Laketa
Computer mind mapping

8.8. Milena Marić, Milena Jeretin
Application software geogebra and modern web technology in teaching matematics in the experimental classes

8.9. Vesna Ružičić, Marija Blagojević
Geomedia - fundamentals and applications in spatial data integration of geographic information system (GIS)

8.10. Branko Marković, Laza Lazarević, Ivan Ravić
The simulation of half duplex data transfer by using the method "stop and wait"

8.11. Biljana Gogić, Branko Marković, Nataša Gačević
The simulation of cyclic algorithm schemas applied for C programming language

8.12. Milica Nešković, Živadin Micić
The integration of educational and key aspects of it on Joomla CMS examples

8.13. Momčilo Vujičić, Aleksandar Vasev, Biljana Vasev
Using multimedia software for creating electronic quiz in modern teaching

8.14. Mladen Raković, Milica Nešković, Leonid Stoimenov
Making inclusive knowledge tests using Hot Potatoes software

8.15. Vladimir Šarović
Knowledge test in moodle

8.16. Radojka Mikšin
PollDaddy poll

8.17. Aleksandar Vasev, Biljana Vasev, Momčilo Vujičić
Hard disc data cloning using the modern software

$18^{00} – 19^{30}$	**ROUND TABLE** –Current issues of Technics and Informatics in Serbia	Hall 232
Chairman:	**Dragan Golubović**	

Sunday			**5th June 2011.**
$9^{00} – 12^{30}$	**Work according to the sections**		Lecture halls according to the schedule of June 4th
Chairman:	**Council of June 4th**		
$10^{00} – 12^{00}$	**Assembly of Teaching Staff of Technics, Informatics and Education of Southeast Europe (TIE-SOE)**		Lecture Hall 111
Chairman:	**Slobodan Popov**		
$15^{00} – 16^{00}$	Conference Closing		Amphitheatre 21
Chairman:	**Dragan Golubović, Mirčeta Danilović, Slobodan Popov**		

TOURIST PROGRAMME   5th June 2011.

A visit to Ovcar-Kablar monasteries will be organized for all interested participants of the Symposium and their companions from 10a.m. to 15p.m. Participants have to sign up for the program during the registration at the Symposium. The program will be realized if there are enough interested participants. Further information can be obtained at the reception desk of the Symposium.