

## 3RD INTERNATIONAL CONFERENCE TIO 2010

### ❖ Organizer:

University of Kragujevac  
Technical faculty, Čačak

### ❖ Co-Organizers:

Technical Faculty 'Mihailo Pupin', Zrenjanin  
Faculty of Mechanical Engineering, Kraljevo  
Association of Technical Education Teachers,  
Republic of Serbia  
Association of Technical Educators, Republic of  
Serbia  
National Technology, Republic of Serbia  
Regional Centre for Professional Development of the  
Educational Staff of Čačak

3.

PROGRAMME



## Technics and Informatics in Education

- Pre-school education
- Primary education
- Secondary education
- University education
- Educational technology
- European experiences
- Professional Development of Teachers
- Lifelong learning

ČAČAK, 7 – 9th, May 2010

## SCIENTIFIC COMMITTEE

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Čačak, University of Kragujevac, Serbia

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Kraljevo, University of Kragujevac, Serbia  
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Gabrovo, Bulgaria  
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University of Montenegro, Kotor, Montenegro  
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Technology of Trnava, Un. of Technology in Bratislava, Slovakia  
Prof. Georgios Petropoulos, Faculty of Mechanical & Industrial  
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Research, Belgrade, Serbia  
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Prof. Predrag Ružičić, Technical faculty, Čačak, University of  
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Prof. Boško Stojanović, Technical faculty, Čačak, University of  
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power engineering, Politehnica University of Timișoara, Romania  
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Čačak, University of Kragujevac, Serbia  
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Technology, Mediterranean University, Podgorica, Montenegro  
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Dr. Branislav Egić, Assistant Professor, Technical faculty  
'Mihajlo Pupin', Zrenjanin, University of Novi Sad, Serbia  
Dr. Danijela Vasiljević, Assistant Professor, Teacher-Training  
Faculty, Užice, University of Kragujevac, Serbia

## ORGANIZING COMMITTEE

**Chairman** Prof. Radomir Slavković

### Members

|   |                       |
|---|-----------------------|
| Dr. Miloš Radovanović, Associate Prof.  | Predrag Dašić         |
| Dr. Momčilo Vujičić, Associate Prof.    | Lena Filipović        |
| Dr. Snežana Dragičević, Associate Prof. | Ksenija Lajšić        |
| Dr. Danijela Milošević, Assistant Prof. | Nedeljko Dučić        |
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## SPONSORS

Ministry of Education of the Republic of Serbia  
Ministry of Science of the Republic of Serbia  
University of Kragujevac

## TOPICS

Technics and informatics in education:

- Pre-school education
- Primary education
- Secondary education
- University education
- Educational technology
- European experiences
- Professional Development of Teachers
- Lifelong Learning

## CONFERENCE VENUE

TIO 2010 Conference will be held in Čačak at Technical Faculty Čačak, St. Save Street 65, from 7th to 9th May, 2010. Exhibition of the sponsors' products will be held within the Conference, and the account of their production programme will be exposed through prospects or other promotional material. (The Exhibition will take place at Technical Faculty Čačak).

## PAPER PRESENTATION

Official languages at the Conference are Serbian, English and Russian. The papers included in the programme will be presented orally. The time of the paper presentation is limited to ten minutes. All the papers that will be presented at the Conference will be printed in Conference proceedings and on CD. It is necessary that the authors or co-authors of the papers provide their names in the registration fee form in order to take over the material.

Presentations of the papers can be prepared on PC in Power Point 2003 software.

## REGISTRATION FEE

Registration fee amounts to 4000 dinars, and for participants from abroad it amounts to 80 euros. Paid registration cost provides participation in the Conference, free Conference proceedings and CD that includes all the papers presented in the Conference. Registration fee can be paid in dinars on the bank account of Technical Faculty Čačak, no. 840-875666-84, reference number 21 02246 13, with a sign: for TIO 2010 Conference.

## CONTACT ADDRESSES

Chairman: Prof. Dragan Golubović,  
Secretary: Milka Jovanović  
M.Sc. Ivan Milićević  
TIO 2010, Technical faculty Čačak,  
65 St. Save Street, 32000 Čačak, Serbia  
Tel: +381 32 302-757 +381 32 226-503 +381 32 302-722  
Fax: +381 32 342-101  
E-mail: [golubd@tfc.kg.ac.rs](mailto:golubd@tfc.kg.ac.rs);  
[golub.dragan2@nadlanu.com](mailto:golub.dragan2@nadlanu.com)  
[ivan\\_milicevic@beotel.rs](mailto:ivan_milicevic@beotel.rs)

Website of the faculty: [www.tfc.kg.ac.rs](http://www.tfc.kg.ac.rs)

## EXHIBITION AND TOURIST PROGRAMME

Instructional aids  
Publications  
Posters

Participants of the Conference 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 |
| Hotel "Morava"                        | +381 32 333 988 |
| Hotel "Prezident"                     | +381 32 371 401 |
| Motel "Autoprevoz"                    | +381 32 225 616 |
| Motel "Čačak"                         | +381 32 225 616 |
| Motel "Kole"                          | +381 32 381 804 |
| Hotel "Livade"                        | +381 32 381 088 |
| Restaurant "Lovac" with accommodation | +381 32 224 001 |

## SCHEDULE OF EVENTS

| 7th May 2010.                       |  |
|-------------------------------------|--|
| 17 <sup>00</sup> – 20 <sup>00</sup> | Registration of Participants and Guests                            |
| 8th May 2010.                       |  |
| 8 <sup>00</sup> – 10 <sup>00</sup>  | Admission of Participants  |
| 10 <sup>00</sup> – 10 <sup>30</sup> | Conference Opening   |
| 10 <sup>30</sup> – 12 <sup>00</sup> | Plenary Session  |
| 12 <sup>00</sup> – 14 <sup>00</sup> | Cocktail party   |
| 14 <sup>00</sup> – 16 <sup>30</sup> | Papers Presentation in Sections                                    |
| 16 <sup>30</sup> – 17 <sup>00</sup> | Pause (Coffee Break)   |
| 17 <sup>00</sup> – 19 <sup>30</sup> | Papers Presentation in Sections                                    |
| 20 <sup>00</sup> – 24 <sup>00</sup> | Dinner party (Hotel Beograd)                                       |
| 9th May 2010.                       |  |
| 9 <sup>00</sup> – 12 <sup>30</sup>  | Round Table – Current issues at Technics and Informatics in Serbia |
| 9 <sup>00</sup> – 15 <sup>00</sup>  | Organized Tour to Monasteries in Ovčar-Kablar Gorge                |
| 15 <sup>00</sup> – 16 <sup>00</sup> | Conference Closing   |

## PROGRAMME

Venue **Technical faculty Čačak**

**Friday 7th May 2010.**

|                                     |              |              |
|-------------------------------------|--------------|--------------|
| 17 <sup>00</sup> – 20 <sup>00</sup> | Registration | Faculty hall |
|-------------------------------------|--------------|--------------|

**Saturday 8th May 2010.**

|                                    |                           |              |
|------------------------------------|---------------------------|--------------|
| 8 <sup>00</sup> – 10 <sup>00</sup> | Admission of Participants | Faculty hall |
|------------------------------------|---------------------------|--------------|

|                                     |                    |                 |
|-------------------------------------|--------------------|-----------------|
| 10 <sup>00</sup> – 10 <sup>30</sup> | Conference Opening | Amphitheatre 21 |
| Chairman:                           | Chairmanship       |                 |

|                                     |                              |                 |
|-------------------------------------|------------------------------|-----------------|
| 10 <sup>30</sup> – 12 <sup>00</sup> | SECTION 1<br>Plenary Session | Amphitheatre 21 |
| Chairman:                           | Chairmanship                 |                 |

### 1.1. Mirela Toth-Tascau

Biomedical engineering studies in Politehnica University of Timisoara

### 1.2. Giovanni Belingardi, Miroslav Demić, Jovan Obradović

Presentation of PhD educational program at the politecnico di Torino, within the Bologna agreement perspective and with particular interest to the department of mechanics

### 1.3. Carol Zoller, Predrag Dašić, Dobra Remus

Dynamics of Romanian high school educational process and evaluation methods using virtual instruments

### 1.4. Branislav Dragović, Milorad Rašković, Romeo Meštrović

Contribution of investigation in relation to maritime education: Maritime faculty Kotor

### 1.5. Danilo Stojanović, Miroslav Bjekić, Radojka Krneta

Education on efficiency electricity consumption in households

### 1.6. Dragan Golubović

Modern methods of education in technics and science

### 1.7. Slobodan Popov

Information and technical education in Balkans and European integrations

|                                     |                |              |
|-------------------------------------|----------------|--------------|
| 12 <sup>00</sup> – 14 <sup>00</sup> | Cocktail party | Faculty hall |
|-------------------------------------|----------------|--------------|

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| 14 <sup>00</sup> – 19 <sup>30</sup><br>16 <sup>30</sup> – 17 <sup>00</sup> Pause | SECTION 2:<br>Education in New Environment | Lecture Hall 14 |
| Chairman:  | Branislav Egić, Dragana Bjekić             |                 |

#### 2.1. Branislav Egić

Education in a new technological environment

#### 2.2. Jezdimir - Luka Obadović

Aspects of introducing ICT resources reformed education teaching of Montenegro

#### 2.3. Branislav Ćorović, Senka Šekularac

Education and training of new profile of ship crew as the imperative of development of the modern maritime transport

#### 2.4. Sladana Mijatović, Danilo Beodranski

Analysis of the current situation and consideration of the rationalization in the education system

#### 2.5. Miodrag Pantelić, Dragan Golubović, Dragana Vojteški

Thirsty planet Earth

#### 2.6. Predrag Ružičić, Momčilo Vujičić

Hilly and mountainous areas and work education programmes in these areas

#### 2.7. Petar Nenić, Petar Dubljević

The role of TIE in the application of agricultural equipmen

#### 2.8. Miroslav Jevremović, Dragan Golubović

Contribution of craftsmanship to the development of Serbian economy

#### 2.9. Rada Karanac, Željko Papić

Team work and data processing in schools in the process of self-evaluation

#### 2.10. Snežana Vuković

Management of the upbringing and education processes

#### 2.11. Dragana Smiljanić

À development of students abilities through planned and organized teaching

#### 2.12. Milan Sanader

Educational standards of achievements in the course on technology and informatics in primary schools

#### 2.13. Ljiljana Milić

Educational composition of Serbia

#### 2.14. Slavica Jašić

Educational needs of directors as a factor manage their professional development

#### 2.15. Slavica Jašić, Vesna Kartal, Zoran Kostić

Didactics innovations in third millenium

#### 2.16. Žana Bojović

Lifelong learning as the frame for the individual teacher development

#### 2.17. Miloradka Simeunović

Teacher's lifetime professional development

#### 2.18. Milenko Kundačina

Electronic approach to scientific information

#### 2.19. Svetislav Marković

No researcher, no research

#### 2.20. Goran Bilandžija

Educational technology as a necessity of modern education process

#### 2.21. Sanja Stanisavljev, Nataša Đuričić, Željko Miladinović

Knowledge management in the function of competitive advantage

#### 2.22. Branislav Filipović, Miloš Vujić, Milan Vujić

Achievements of accredited programs of agency for education Filipović FB Soft

#### 2.23. Vesna Stevanović, Mališa Stevanović

High school teachers' readiness for work innovations using ICT and e-learning

#### 2.24. Ljiljana Grujić

Distance learning in the function of advanced teacher training

#### 2.25. Milica Janković, Obrad Aničić

New tendencies in education

#### 2.26. Danijela Vasiljević

The history of the classroom development

|  |   |                 |
|--|---|-----------------|
| 14 <sup>00</sup> – 19 <sup>30</sup><br>16 <sup>30</sup> – 17 <sup>00</sup> Pause | SECTION 3:<br>University Education in Engineering | Lecture Hall 15 |
| Chairman:  | Mirela Toth -Tascau, Snežana Dragičević           |                 |

### 3.1. Mirela Toth-Tascau

Quality Assurance of Medical Devices.

Course of the Study Programme in Biomedical Engineering

### 3.2. Delia Bugariu, Mirela Toth-Tascau, Liviu Bereteu

Doctoral Studies in Total Knee Arthroplasty

### 3.3. Cristian Saftescu-Jescu, Mirela Toth-Tascau, Liviu Bereteu

Doctoral Studies in Stabilization and Arthroplasty of Lumbar Spine

### 3.4. Cosmina Vigaru

Acoustics and hearing prostheses

### 3.5. Stoia Dan Ioan

Fabrication of Medical Devices

### 3.6. Zoran Vosika, Miroslava Ristić

Application of HHSIM in teaching biophysics - modeling activation of nerve impulses

### 3.7. Ivan Spasojević, Marko Popović, Zvonimir Jugović

Applying CNC engraving machines as aids in teaching mechatronics

### 3.8. Radomir Slavković, Nikola Bošković, Nedeljko Dučić

An example of functioning of a mechatronic system in a laboratory for mechatronics at Technical faculty

### 3.9. Snežana Radonjić, Jelena Baralić, Nedeljko Dučić

Innovations in AutoCAD 2010

### 3.10. Igor Maričić, Dragan Golubović

Using generative structural analysis module of software CatiaV5R17 in education of students

### 3.11. Marko Rosić, Miroslav Bjekić

Curriculum materials in the fields of electric machinery and electric drive at faculties in Serbia and neighboring countries

### 3.12. Marko Rosić, Miroslav Bjekić

Technical solution use of contactor equipment for the execution of laboratory exercises in electric motor drives

### 3.13. Miloš Božić, Miroslav Bjekić

Automatic devices education board applied in electric drive

### 3.14. Marko Vujičić, Miloš Božić, Miroslav Bjekić

SCADA system of continuous regulation of water levels using PLC

### 3.15. Momčilo Vujičić, Saša Panić

Side effects when released to the work ikadescente bulbs and possible solutions

### 3.16. Slobodan Bjelić, Nenad Marković, Uroš Jakšić, Momčilo Vujičić

Informatical analysis of electro energetic systems in high education

### 3.17. Uroš Jakšić, Nenad Marković, Slobodan Bjelić

Modeling and control in energetic systems on Master level

### 3.18. Petar Nikšić, Anđelija Mitrović

Creating single-line diagrams transformer substation 35/10 kV by applying CorelDraw

### 3.19. Momčilo Vujičić, Sanja Marković, Dejan Živković

Determination of optimal area of parking lot applying the program package Microsoft Office Access

### 3.20. Dragan Golubović, Ivan Milićević

Computer aided management and education

### 3.21. Savko Jekić, Dragan Golubović

Applying dynamic, static and corrective anthropomorphic measures of pre-school children in dimensioning 'safety zones'....

### 3.22. Savko Jekić, Dragan Golubović

Applying results obtained in ergonomic research of anthropomorphic static measures of pre-school children in the design of playground structures

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|--|---|-----------------|
| 14 <sup>00</sup> – 19 <sup>30</sup><br>16 <sup>30</sup> – 17 <sup>00</sup> Pause | <b>SECTION 4:<br/>Technics and Informatics<br/>Challenges</b> | Lecture Hall 16 |
| Chairman:  | <b>Slobodan Popov, Željko Papić</b>                           |                 |

- 4.1. **Mirčeta Danilović**  
Technique, educational technology and information science as a function of maximization the efficiency of educational and learning process
- 4.2. **Milica Gerasimović, Ljiljana Stanojević, Alempije Veljović, Nataša Cvijović, Jelena Jakovljević**  
Development standards professions as a part of the developing process of the educational program for Mechatronic
- 4.3. **Nataša Cvijović, Neda Nikolić, Alempije Veljović, Milica Gerasimović**  
Public relations' support to popularisation of technical education
- 4.4. **Dragana Bjekić, Snežana Dragičević**  
The role of the technology instruction to development of the energy efficient behaviour
- 4.5. **Anja Stojšin**  
Technical education classes for children with difficulties in intellectual functioning
- 4.6. **Aleksandra Grujić-Jankuloski**  
Thematic approach to instruction planning in technical and informatical education
- 4.7. **Miroslav Parošakaj, Mitar Mitrović**  
Use of ICT in modernize and bringing up quality of technical and informatical education in primary school
- 4.8. **Veljko Pavlović, Snežana Dragičević, Željko Papić**  
Applets and animations application methodology in teaching techniques and informatics education
- 4.9. **Mara Šiljak, Mile Šiljak**  
Progress and motivation of elementary school pupils in teaching of technical education
- 4.10. **Mara Šiljak, Mile Šiljak**  
Motivation and progress of the seventh and eight grade elementary school pupils in teaching of basic information and computing
- 4.11. **Siniša Minić, Dragan Kreculj, Miloš Vorkapić**  
Electronic interactive board in teaching technical and informatical education
- 4.12. **Miodrag Nikolić, Grada Manojlović, Ivan Stojanović, Dejan Stojanović, Duško Jovanović**  
Development of control technique and conducting technically oriented education
- 4.13. **Slobodan Aleksandrov, Predrag Simić, Milomir Mijatović**  
Realization of project teaching in experimental profile Mechatronical technician
- 4.14. **Petar Francišković, Robert Kovač, Danilo Macanović, Milan Romić**  
Oktopod studio – innovative education tool
- 4.15. **Danilo Šešelj, Stanislav Stevuljević, Petko Andrić**  
Interface – system of connections with a PC
- 4.16. **Nenad Jović**  
Use of information technology - precondition for quality teaching technical and information education
- 4.17. **Zoran Lapčević**  
The concept of quality textbooks for technical education and computer science
- 4.18. **Marijana Bačanin**  
Roman architecture in Niš

- 4.19. **Milica Janković, Obrad Aničić**  
Protective measures in working with laser machines
- 4.20. **Danilo Mikić**  
Modeling mechanical and construction elements in education using CATIA software package
- 4.21. **Dušan Kljajić**  
Robotics in primary schools
- 4.22. **Dušan Kljajić**  
Club young technicians Mechatronics
- 4.23. **Milanko Karličić**  
The example of the annual plan in club work 'Rocket modeling' in elementary schools

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|--|---|-----------------|
| 14 <sup>00</sup> – 19 <sup>30</sup><br>16 <sup>30</sup> – 17 <sup>00</sup> Pause | <b>SECTION 5:<br/>Information Technology in<br/>Education</b> | Lecture Hall 17 |
| Chairman:  | <b>Siniša Randić, Živadin Micić</b>                           |                 |

- 5.1. **Branko Markoski, Sofija Hotomski, Natasa Đuričić, Sanja Stanisavljev, Zdravko Ivanković**  
Correctness program
- 5.2. **Branko Markoski, Zdravko Ivanković, Nikolić Milan, Sofija Hotomski**  
Problems in the creation of basketball statistics
- 5.3. **Mirosljub Ivanović, Uglješa Ivanović**  
Indicator management influence in sport on the prediction of sport managers needs for the Internet application
- 5.4. **Siniša Minić, Miloš Vorkapić, Dragan Kreculj**  
Analysis and improvement business activities of the use of IT
- 5.5. **Radislav Vulović, Miloš Papić, Aleksandar Damljanović**  
Business applications and business terms
- 5.6. **Ivana Krsmanović**  
PowerPoint presentations in the ESL acquisition
- 5.7. **Marko Čirović**  
Protection of computer systems from viruses
- 5.8. **Slobodan Petrović, Ljubica Diković**  
Operating system GNU/Linux
- 5.9. **Olga Ristić, Vlade Urošević, Danijela Milošević**  
Algorithms and data structures simulation using MatrixPRO software
- 5.10. **Darko Nešković, Gordana Marković, Branko Marković**  
A software package for XML elements' learning
- 5.11. **Danijela Jovanović, Branko Marković**  
Data protection over the Internet using a digital certificate
- 5.12. **Veljko Aleksić, Vesna Đokić, Momčilo Vujičić**  
Using teaching software and web sites in foreign language courses
- 5.13. **Snežana Mijailović, Željko Papić**  
The new concept of teaching computer science and information technology in high school
- 5.14. **Snežana Mijailović, Dragan Golubović**  
Robotics in teaching computer science and information technology in high school
- 5.15. **Marija Nikolić, Nataša Gojčić**  
Education in the ICT environmen
- 5.16. **Gordana Marković**  
The goals and outcomes in informatics for the high school students' education
- 5.17. **Goran Bilandžija**  
From toys to computers
- 5.18. **Ljiljana Djurović**  
Programmed textbook

- 5.19. **Daliborka Popović, Nataša Vuković**  
The importance of electronic journal for achieving successful communication between families and schools
- 5.20. **Slavica Dimitrijević**  
Application of computers and the techniques in physical education (p.e.) teaching in the younger grades of elementary school

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|--|---|------------------|
| 14 <sup>00</sup> – 19 <sup>30</sup><br>16 <sup>30</sup> – 17 <sup>00</sup> Pause | <b>SECTION 5:<br/>Information Technology in<br/>Education</b> | Lecture Hall 216 |
| Chairman:  | <b>Radojka Krneta, Danijela Milošević</b>                     |                  |

- 5.21. **Miroslava Ristić**  
Television in the system of distance learning and training
- 5.22. **Snežana Laketa**  
Working with gifted children website authoring
- 5.23. **Aca Đokić**  
Application of IT in education disabled persons
- 5.24. **Aca Đokić, Lidija Đokić**  
The application of IT in the construction process of Internet ASP application named "Upis"
- 5.25. **Nebojša Stanković, Gordana Marković**  
The visualisation of the binary numbers addition with the memory usage
- 5.26. **Ivan Čuković, Branko Marković, Gordana Marković**  
A multimedia package for HTML learning
- 5.27. **Marija Blagojević**  
Appliance of WEB Mining in education
- 5.28. **Dejan Radojević, Miodrag Nikolić, Ivan Stojanović**  
The role of Internet in the educational process
- 5.29. **Nebojša Baralić, Vojislav Glavonjić**  
Computer and Internet in the employees vocational in-service training at the Concern Farmakom MB 'IK GUČA' A.D. Guča
- 5.30. **Ljiljana Božić, Radojka Krneta**  
Quality E-learning in secondary vocational education
- 5.31. **Dragica Simović, Marija Čukanović-Karavidić**  
E-Education
- 5.32. **Obrad Aničić, Biljana Barlovac**  
Distance learning – E-Education
- 5.33. **Obrad Aničić, Milica Janković**  
Options of multimedia technologies
- 5.34. **Ivan Tomić**  
Course authoring tools
- 5.35. **Zoran Mitrašinić**  
Communication and collaboration in Moodle
- 5.36. **Zoran Blagojević, Dragana Arsić, Milivoje Čučilović**  
QEDOC modules for adaptive learning and the knowledge test in subject 'Transportation systems'
- 5.37. **Miloš Vujić, Bratislav Filipović**  
Addiction of excessive use of the Internet service

**Sunday 9th May 2010.**

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|-------------------------------------|---|-----------------|
| 9 <sup>00</sup> – 12 <sup>30</sup>  | <b>Round Table – Current issues<br/>at Technics and Informatics in<br/>Serbia</b> | Amphitheatre 21 |
| Chairman:                           | <b>Chairmanship</b>   |                 |
| 15 <sup>00</sup> – 16 <sup>00</sup> | <b>Conference closing</b>   |                 |