

**XLVI INTERNATIONAL SCIENTIFIC CONFERENCE ON INFORMATION, COMMUNICATION AND
ENERGY SYSTEMS AND TECHNOLOGIES**



Proceedings of Papers

Volume 1

Serbia, Niš, June 29 - July 1, 2011

TECHNICAL PROGRAM COMMITTEE

Chairman:

Chairman:

B. Milovanović

University of Niš, Serbia

Vice-chairmen:

R. Arnaudov

Technical University of Sofia, Bulgaria

C. Mitrovski

University "St.Kliment Ohridski", Bitola, Macedonia

Members:

N. Acevski

University "St. Kliment Ohridski", Bitola, Macedonia

V. Aćimović-Raspopović

University of Belgrade,Serbia

V. Ceselkoska

University "St. Kliment Ohridski", Bitola, Macedonia

D. Dimitrov

Technical University of Sofia, Bulgaria

K. Dimitrov

Technical University of Sofia, Bulgaria

B. Dokić

University of Banja Luka, Bosnia and Herzegovina

D. Dobrev

Technical University of Sofia, Bulgaria

N. Dončov

University of Niš, Serbia

R. Goleva

Technical University of Sofia, Bulgaria

N. Gospić

University of Belgrade, Serbia

G. Iliev

Technical University of Sofia, Bulgaria

I. Iliev

Technical University of Sofia, Bulgaria

Z. Jakšić

IHTM Institute, Belgrade, Serbia

D. Janković

University of Niš, Serbia

N. Janković

University of Niš, Serbia

B. Jokanović

Institut of Physics, Belgrade, Serbia

I. Jolevski

University "St. Kliment Ohridski" Bitola, Macedonia

M. Jeftić

University of Niš, Serbia

M. Kostov

University "St. Kliment Ohridski" Bitola, Macedonia

R. Krneta

University of Kragujevac, Serbia

R. Kuntchev

Technical University of Sofia, Bulgaria

M. Lutovac

University of Novi Pazar, Serbia

V. Marković

University of Niš, Serbia

A. Markovski

University "St. Kliment Ohridski", Bitola, Macedonia

S. Mirtchev

Technical University of Sofia, Bulgaria

P. Mitrevski

University "St. Kliment Ohridski", Bitola, Macedonia

I. Nedelkovski

University "St. Kliment Ohridski", Bitola, Macedonia

A. Nešić

IMTEL Institute, Belgrade, Serbia

N. Nešković

University of Belgrade, Serbia

B. Nikolova

Technical University of Sofia, Bulgaria

Dj. Paunović

University of Belgrade, Serbia

E. Pencheva

Technical University of Sofia, Bulgaria

Z. Perić

University of Niš, Serbia

P. Petrović

IRITEL Institute, Belgrade, Serbia

S. Pleshkova-Bekiariska

Technical University of Sofia, Bulgaria

V. Poulikov

Technical University of Sofia, Bulgaria

P.M. Radevska

University "St. Kliment Ohridski", Bitola, Macedonia

B. Reljin

University of Belgrade, Serbia

I. Reljin	University of Belgrade, Serbia
P. Spalević	University of K. Mitrovica, Serbia
R. Stanković	University of Niš, Serbia
Z. Stanković	University of Niš, Serbia
M. Stefanović	University of Niš, Serbia
M. Stevanovski	University "St. Kliment Ohridski", Bitola, Macedonia
M. Stojčev	University of Niš, Serbia
L. Stoimenov	University of Niš, Serbia
G. Stoyanov	Technical University of Sofia, Bulgaria
D. Tasić	University of Niš, Serbia
M. Temerinac	University of Novi Sad, Serbia
Lj. Trpezanovski	University "St. Kliment Ohridski", Bitola, Macedonia
B. Tsankov	Technical University of Sofia, Bulgaria
I. Uzunov	Technical University of Sofia, Bulgaria
L. Zieleznik	Brookes University of Oxford, UK

CONFERENCE ORGANIZING COMMITTEE

Chairman:

B. Milovanović University of Niš, Serbia

Members:

M. Agatonović	University of Niš, Serbia
T. Asenov	University of Niš, Serbia
T. Dimitrijević	University of Niš, Serbia
I. Dochev	Technical University of Sofia, Bulgaria
N. Dončov	University of Niš, Serbia
D. Janković	University of Niš, Serbia
V. Jović	University of Niš, Serbia
L. Lubih	Technical University of Sofia, Bulgaria
M. Milijić	University of Niš, Serbia
J. Pargovski	University "St. Kliment Ohridski", Bitola, Macedonia
Z. Perić	University of Niš, Serbia
M. Petkovski	University "St. Kliment Ohridski", Bitola, Macedonia
Z. Stanković	University of Niš, Serbia
B. Stošić	University of Niš, Serbia
D. Tasić	University of Niš, Serbia

TECHNICAL SUPPORT

A. Atanasković	University of Niš, Serbia
J. Anastasov	University of Niš, Serbia
T. Asenov	University of Niš, Serbia
Z. Djordjević	University of Niš, Serbia
J. Joković	University of Niš, Serbia
Z. Marinković	University of Niš, Serbia
M. Miletić	University of Niš, Serbia

M. Milijić University of Niš, Serbia
J. Nikolić University of Niš, Serbia
A. Panajotović University of Niš, Serbia
B. Stošić University of Niš, Serbia

CONFERENCE SECRETARIAT

Z. Stanković Conference Technical Editor
B. Stošić Conference Technical Co-Editor & Technical Coordinator
T. Dimitrijević Technical Secretary
T. Asenov Technical Secretary

Address:

ICEST 2011 Conference
University of Niš
Faculty of Electronic Engineering
Aleksandra Medvedeva 14
18000 Niš, Serbia
phone: +381 18 529 105, 529 302, 529 303
fax: +381 18 588 399
e-mail: info@icestconf.org
icest@elfak.ni.ac.rs

CONFERENCE INTERNET SITE

<http://www.icestconf.org>