

TECHNICAL UNIVERSITY OF GABROVO



**INTERNATIONAL
SCIENTIFIC CONFERENCE**

UNITECH 2017
GABROVO

P R O G R A M

**17 - 18 NOVEMBER 2017
GABROVO**

International Scientific Conference UNITECH'17 is organized by the Technical University of Gabrovo with the assistance of regional business establishments and companies. The conference is a forum at which traditionally every year at the end of November lecturers and research workers from home and abroad meet to promote the Development of Science and Education.

ORGANIZING COMMITTEE

Chairman: Assoc. Prof. Iliya Zhelezarov, Ph.D.
Vice Rector in charge of Research and Development

Members: Prof. Jordan Maximov, D.Sc.
Prof. Anatoliy Aleksandrov, Ph.D.
Prof. Stoyan Kapralov, Dr. Sc.

Technical Assistant:
Petya Peneva, MA

PROGRAM COMMITTEE

Chairman: Prof. Raycho Ilarionov, D.Sc.
Technical University of Gabrovo, Bulgaria

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Acad. Chavdar Rumenin, Bulgaria
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Prof. Dr. phil. Ludwig Hilmer, Germany
Prof. Elena Kovalenko, Pd.D., Ukraine
Prof. Iurii Iaremchuk, Dr.Sc., Ukraine
Prof. Mihail Prokofiev Ph.D., Ukraine
Prof. Igor Sazonov, Dr. Sc., Belarus
Prof. Rumen Daskalov, Dr. Sc., Bulgaria
Prof. Vasil Kavardjikov, Dr. Sc., Bulgaria

***UNITECH'17 will be held on 17 and 18 November 2017
at the Technical University of Gabrovo***

WORKING PROGRAM OF THE SCIENTIFIC CONFERENCE

16th November 2017, Thursday

14.00 – 17.00 h Registration, Rectorat building

17th November 2017, Friday

08.00 – 10.30 h Registration, Rectorat building

10.30 – 11.00 h Opening ceremony – Library building, Conference hall

11.00 – 12.00 h *Micro- and Nanoporous metals by selective dissolution of alloys*
- Tony Spassov, Lyuben Mihailov, Lyudmila Lyubenova
Faculty of Chemistry and Pharmacy Sofia University "St. Kliment Ohridski "

12.00 – 13.00 h Lunch

13.00 – 18.00 h Thematic sessions

- Electrical Engineering
- Electronics and Sensors
- Automation
- Chemistry and Ecology
- Communication Engineering and Technologies
- Computer Systems
- Computer Technologies
- Information Security
- Mathematics and Informatics
- Design of Machines and Instruments
- Technologies in Mechanical Engineering
- Technologies in Textile Production
- Mechatronics, Metrology and Quality Management
- Hydraulics, Pneumatics and Heat Engineering
- Economics and Finance
- Organization and Management
- Social Sciences and Humanities
- Educational Technologies
- Physics

15.00 – 15.30 h Coffee break

16.00 -18.00 h Round table: „*Mechatronics and Clean Technologies*“, Library building, Conference hall

19.00 h Formal dinner Restaurant Balkan Hotel

18th November 2017, Saturday

09.00 – 12.00 h Thematic sessions

THEMATIC SESSIONS

ELECTRICAL ENGINEERING

Chairmen: Assoc. Prof. Plamen Tsankov, Ph.D., Assoc. Prof. Svilen Rachev, Ph.D.
Building № 2A, Hall 2603
Beginning: 13.00 h.

Thermoelectric generator simulation by using MATLAB/SIMULINK

Hayati Mamur, Sait Gunes

Faculty of Engineering, Manisa Celal Bayar University, 45140, Manisa, Turkey

Investigation of thermoelectric technology applications in aviation and aerospace systems

Hayati Mamur, Yusuf Coban

Faculty of Engineering, Manisa Celal Bayar University, 45140, Manisa, Turkey

Optimisation of a hybrid electrical and thermal system

Y. Stefanov¹, K. Ivanov¹, H. Hinz²

¹ *Technical University of Gabrovo*

² *Frankfurt University of Applied Science*

Identification of emergency sings in the emergency regimes of power equipment based on the application of dynamic fractal-cluster model

P. Govorov¹, P. Budanov², K. Brovko³

¹ *O. M. Beketov National University of Urban Economy in Kharkiv*

² *Ukrainian Engineering Pedagogics Academy*

³ *Kharkiv Petro Vasylenko National Technical University of Agriculture*

Improvement of the mathematical model for calculating and predicting the loss of electricity on the basis of neural networks

Govorov Pylyp¹, Bakulevskiy Vladimir²

¹ *O.M.Beketov National University of urban Economy in Kharkiv*

² *Mechanics and Technology College of Odessa National Academy of Food Technologies*

Energy-saving led water purification system based on UV leds

Govorov Pylyp¹, Neeshmakov Pavel¹, Govorova Katerina¹, Tereshchenko Yuri¹, Ivanova Irina¹, Beletskaya Evgeniya²

¹ *O.M.Beketov National University of urban Economy in Kharkiv*

² *Ukrainian State University of Railway Transport*

Analysis of results from the realization of reactive power compensation by capacitors in "Mini Maritsa-Iztok" EAD

Plamen Tsankov¹, Plamen Dimitrov², Milko Yovchev¹

¹ *Technical University of Gabrovo*

² *Mini Maritsa Iztok EAD*

No-load operation of single-phase transformer at low frequencies

Branko Koprivica¹, Sandra Milunovic Koprivica²

¹ *University of Kragujevac, Faculty of Technical Sciences in Cacak, Department of Electrical and Electronic Engineering, Serbia*

² *University of Kragujevac, Faculty of Technical Sciences in Cacak, Department of Mechatronics, Serbia*

Investigation on influence of boric acid on the properties of ferrceramic materials

Anka Zheglova, Ivaylo Lazarov

Technical University of Gabrovo

Investigation of the energy efficiency of soiled solar module mounted at the optimal angle

Ivana S. Radonjić¹, Tomislav M. Pavlović¹, Dragoljub Lj. Mirjanić², Miodrag K. Radović¹

¹ *University of Nis, Faculty of Sciences and Mathematics, Department of Physics, Višegradaska 33,18 000 Nis, Republic of Serbia*

² *Academy of Sciences and Arts of the Republic of Srpska, Bana Lazarevića 1, 78 000 Banja Luka, Republic of Srpska*

Expert investigation of accidents in the electrical power engineering

Evtim Kyrtselin¹, Angel Zabtchev¹, Nikolay Minekov², Petar Petrov³, Krasimir Ivanov³, Georgi Velev³

¹ *University of Mining and Geology “St. Ivan Rilski”, Sofia, Bulgaria*

² *Assarel-Medet JSC, Bulgaria*

³ *Technical University of Gabrovo*

Electric impact drills performance characteristics at dynamic and steady-state regimes

Dimitar Spirov¹, Milko Dochev²

¹ *University of Food Technology - Plovdiv*

² *Technical college - Lovech*

Determination of Induction Machine parameters and losses in Case of Dynamic and Steady-State Operating Modes

Dimitar Spirov, Nikolay Komitov

University of Food Technology - Plovdiv

Effects of voltage unbalance on torque oscillations in induction motor

Marko Šučurović¹, Milutin Petronijević², Nebojša Mitrović², Marko Rosić¹

¹ *University of Kragujevac, Faculty of Technical Sciences Čačak, Serbia*

² *University of Niš, Faculty of Electronic Engineering, Serbia*

Simple magnetomechanical torque sensor – design, construction and testing

Milos Bozic¹, Vojislav Vujicic², Marko Sucurovic³, Branko Koprivica⁴

¹ *University of Kragujevac, Faculty of Technical Sciences in Cacak, Department of Mechatronics, Serbia*

² *University of Kragujevac, Faculty of Technical Sciences in Cacak, Department of Mechanical Engineering, Serbia*

³ *University of Kragujevac, Faculty of Technical Sciences in Cacak, Department of Industrial Engineering, Serbia*

⁴ *University of Kragujevac, Faculty of Technical Sciences in Cacak Department of Electrical and Electronic Engineering, Serbia*

Study on power supply systems by theory of design of the experiment with the use of scada

Valentin Gyurov, Yuliyana Yordanov

Technical University of Varna

Relay protection simulation model of single-phase faults in electrical power lines high voltage

Mediha Mehmed-Hamza, Plamen Stanchev

Technical University of Varna, Department "Electric Power Engineering"

Laboratory bench for measuring the transmittance and reflectivity coefficients of materials for visible, infrared and ultraviolet light

Plamen Tsankov, Milko Yovchev, Nikolay Kolev

Technical University of Gabrovo

Testing stand for research on induction motor operation in generator mode

Lyubomir Dimitrov, Svilen Rachev, Dimitrina Koeva

Technical University of Gabrovo

Balance on air quality in the area around the "Turceni" thermal power plant

Adriana Foanene, Adina Milena Tătar

University „Constantin Brâncuși” in Tg Jiu, ROMANIA

Investigation the phase transitions of the ferroceramics barium stannate titanate

Ivaylo Lazarov

Technical University of Gabrovo

Possibilities for using of mining galleries for growing plants on artificial lighting

Svetlana Velinova

Laboratory "Lighting" at the University of Mining and geology "St. Ivan Rilski" – Sofia

On some specific aspects of photosynthesis and photosynthetic active radiation (PAR)

Veselina Ilieva¹, Svetlana Velinova²

¹ *New Bulgarian University - Sofia*

² *Laboratory "Lighting" at the University of Mining and geology "St. Ivan Rilski" – Sofia*

Matlab application for analysis and evaluation of electric energy transmission stability of long transmission lines

Slobodan Bjelić¹, Nenad Marković², Uroš Jakšić³, Bojan Jovanović², Bojan Prlinčević³

¹ Faculty of Technical Sciences, Kosovska Mitrovica, Serbia

² Higher Technical Professional School, Urosevac, Leposavic, Serbia

³ Higher Technical Professional School Zvecan, Serbia

Quantization of transformer transient waveforms under no-load conditions by using Higuchi's method

Cengiz Polat Uzunoğlu¹, Mustafa Karhan²

¹ Istanbul University, Electrical and Electronics Engineering Department, Turkey

² Çankırı Karatekin University, Electronic Communication Tech. Prog., Turkey

Research of harmonic in CFL bulbs and LED bulbs

Tsvyatko Kolev Varbov, Krasimir Marinov Ivanov

Technical University of Gabrovo

Research of the influence of the orientation of the pv modules on the annual production of electric energy in PV SYSTEMS USING PVGIS-CMSAF

Tsvyatko Kolev Varbov

Technical University of Gabrovo

Segmentation of vented water trees in microscopic images using image processing techniques

Mustafa KARHAN^{1,2}, Cengiz Polat UZUNUOĞLU², Fatih ISSI¹, Mukden UĞUR²

¹ Electronics and Automation Department, Cankiri Karatekin University

² Department of Electrical and Electronics Engineering, Istanbul University

Electrical energy measuring module of single-phase network

Draganov Nikola

Department of Electronics, Laboratory of Sensors technology

Technical University of Gabrovo

Modeling of power converters in microgrids

Hristiyan Kanchev

Technical University of Sofia, Faculty of Electronic Engineering and Technologies, Department of

Power Electronics, 1000 Sofia, 8 blvd. St. Kliment Ohridski

ELECTRONICS AND SENSORS TECHNICIS

Chairmen: Assoc. Prof. Velimira Todorova, Ph.D., Assoc. Prof. Nikolay Madzharov, Ph.D.
Building № 2, Hall 2311
Beginning: 13.00 h.

Optoelectronic infrared safety curtain

Draganov Nikola, Vasilev Stilyan

*Department of Electronics, Laboratory of Sensors technology
Technical University of Gabrovo*

Study of operation of peltier modules in cascade

Ivaylo Belovski¹, Anatoliy Aleksandrov², Kazolis Dimitrios Teodosios²

¹*Prof. D-r Asen Zlatarov University*

²*Technical University of Gabrovo*

Microprocessor realization of the meteorological station in arduino development environment

Velislava Raydovska, Slavi Lubomirov, Daniela Shehova, Angel Chekichev

University of Plovdiv Paisii Hilendarski, Faculty of Physics and Technology

Application of Arduino PLC (controllino) in engineering education

Stanislav Asenov, Daniela Shehova, Slavi Lubomirov, Dimitar Nedev

University of Plovdiv Paisii Hilendarski, Faculty of Physics and Technology

Electronic device for management of reversal dc motor

Snezhinka Zaharieva, Dian Dimitrov

University of Ruse "Angel Kanchev"

A comparative analysis of control methods for bidirectional series resonant DC-DC converter

Angel Lichev, Aleksandar Vuchev, Miroslav Tolev

University of Food Technologies - Plovdiv

Detection of electric shock hazard with conductive fire extinguishing composition

Oleh Zemlianskiy, Alexander Zemlianskiy

Cherkasy Institute of Fire Safety named after Chernobyl Heroes of NUCD of Ukraine

A design methodology for a bidirectional series resonant DC-DC converter

Aleksandar Stoyanov Vuchev, Angel Angelov Lichev, Petar Nikolov Georgiev

University of Food Technologies – Plovdiv

Microcontroller-based open hardware platforms

Valentina Rankovska

Technical University of Gabrovo

Approaches for fast charging of electric vehicle batteries

Stoyan Vuchev, Dimitar Arnaudov

Technical University of Sofia, Bulgaria

Studying the potential of the ice to electric power propulsion conversion for light vehicles

Radko Stoyanov Stoyanov, Marin Slavov Marinov

Technical University of Varna

Methods for single uncontacted transmission of energy and managing signals

Nikolay Madzharov, Lyudmil Petkov, Georgi Velev, Valentina Rankovska

Technical University of Gabrovo

Dtmos based low power low voltage inductance simulator

Mustafa KONAL¹, Firat KACAR¹

¹Department of Electrical and Electronics Engineering, Istanbul University, Istanbul, Turkey

Communication system for wireless power transmitters

Valeri Petkov, Nikolay Madzharov, Georgi Velev, Stanko Stankov

Technical University of Gabrovo

Design of spiral coils for inductive wireless power transmitters

Valeri Petkov

Technical University of Gabrovo

Modeling starting and stopping an electric throttle with sequentially incorporated electromagnetic brake in one of the phases

Iwaylo Stefanov Genchev, Iwaylo Raychev Belowski, Kazolis Dimitrius Teodosios

Technical University of Gabrovo

A new approach to frequency multiplication

Djurdje Perišić¹, Aleksandar Žorić², Miroslav Bojović³, Željko Gavrić¹

¹Faculty for Information Technology-SPU, BiH

²Faculty of Techn. Sc., K. Mitrovica, Serbia

³Faculty of Electrical Eng., Belgrade, Serbia

Analysis and modeling of resonant inverter with parallel loaded capacitor

Nikolay Hinov

Technical University of Sofia, Faculty of Electronic Engineering and Technologies, Power Electronics department, Sofia, Bulgaria

Generalized model of parallel resonance inverter

Nikolay Hinov

Technical University of Sofia, Faculty of Electronic Engineering and Technologies, Power Electronics department, Sofia, Bulgaria

ZVS quasi-resonance single-ended inverter control with ARDUINO

Dobroslav Dankov, Prodan Prodanov, Mircho Valchev

Technical University of Gabrovo, Department of Electronics

A smart home application based on IoT

Aleksandar Č. Žorić¹, Čedomir A. Žorić², Siniša S. Ilić¹, Bojan Jovanović³

¹*Faculty of Technical Sciences University of Priština, Serbia*

²*Bitgear Wireless Design Services Belgrade, Serbia*

³*The Technical School-Uroševac, Leposavić, Serbia*

Modeling bimorph piezoelectric harvesters

Constantinos Tramantzas¹, Dimo KOLEV², Rumjana STOYANOVA², Velimira TODOROVA²

¹*TEIEMT – Greece*

²*Technical University of Gabrovo*

Design consideration of DC/DC converter and ultracapacitor for electric vehicles

Gergana Vacheva, Nikolay Hinov, Dimitar Penev

Department of Power Electronics, Faculty of Electronic Engineering and Technologies

Technical University of Sofia, 8 Kliment Ohridski blvd., 1000 Sofia, Bulgaria

System for collecting and processing information from a hall sensor via a single board computer

Iskren Kandov, Anatoliy Aleksandrov, Goran Goranov

Technical University of Gabrovo

Some application of galvanomagnetic sensors for linear and angular displacement in electronic systems of modern cars

Draganov Nikola

Department of Electronics, Laboratory of Sensors technology

Technical University of Gabrovo

Virtual instrument for angular position and velocity measurement based on improved pseudorandom binary encoder

Goran Miljković, Miroljub Pešić, Milan Simić, Aleksandar Jocić

University of Niš, Faculty of Electronic Engineering, Serbia

Temperature influence on hall sensors nonlinearity

S. V. Lozanova, L. O. Altunyan, S. A. Noykov, A. J. Ivanov, C. S. Roumenin

Institute of Robotics at Bulgarian Academy of Sciences “Acad. G. Bonchev” Str., Bl.2, Sofia 1113, Bulgaria

Chairmen: Assoc. Prof. Stanimir Sadinov, Ph.D., Sen. Assist. Krasen Angelov, Ph.D.

Building № 2, Hall 2215

Beginning: 13.00 h.

Influence of redundant packet sending on the quality of VOIP connection

Dragan Mitić, Mihailo Stanić, Mladen Mileusnić, Aleksandar Lebl, Vladimir Matić, Žarko Markov

Institute for Telecommunications and Electronics, Iritel A.D. Belgrade, Serbia

A new model for base station power calculation as a consequence of user mobility

Aleksandar Lebl¹, Mladen Mileusnić¹, Dragan Mitić¹, Žarko Markov¹, Verica Marinković-Nedelicki¹, Ivica Marjanović²

¹ *IRITEL a.d. BELGRADE, Serbia*

² *VTI VKK, Serbia*

Determination of video-telephony connection quality under the influence of packet loss

Dragan Mitić¹, Mihailo Stanić¹, Mladen Mileusnić¹, Aleksandar Lebl¹, Žarko Markov¹, Željka Tomić²

¹ *Institute for Telecommunications and Electronics IRITEL A.D. Belgrade, Serbia*

² *High Engineering School Of Professional Studies Tehnikum Taurunum Belgrade Serbia*

Influence of traffic process characteristics on the electric field in gsm base station cell

Aleksandar Lebl, Mladen Mileusnić, Dragan Mitić, Vladimir Matić, Branislav Pavić, Žarko Markov

Institute for Telecommunications and Electronics IRITEL A.D. Belgrade, Serbia

Application of leap motion for rehabilitation of children with special needs

Tsvetomira Georgieva

Konstantin Preslavski University of Shumen

Radio broadcasting in a complex architectural environment

Rosen Tsvetkov

Technical University of Gabrovo, Bulgaria

Development of an integration model for voice over internet protocol in the technical university of Gabrovo's network

Miroslav Stoyanov Slavov

Technical University of Gabrovo

Approaches for optimization of known active element models as per the purposes of the exploration

Miroslav Tomov

Technical University of Gabrovo

Möbius strip shaped antenna

Kliment Angelov

Technical University of Sofia

The influence of musical noise, type major and minor chord, to the intelligibility of speech in Serbian language

Dijana Kostić¹, Zoran Milivojević¹, Zoran Veličković¹, Darko Brodić²

¹*College of Applied Technical Sciences of Nis, Serbia*

²*University of Belgrade, Technical Faculty in Bor, Serbia*

Design, implementation and analysis of a wireless network coverage using a nanostation

Michail Malamatoudis¹, Panagiotis Kogias², Nikolay Manchev¹, Stanimir Sadinov¹

¹*Technical University of Gabrovo*

²*TEI – Kavala, Greece*

Modeling and analysis of broadband optical communication system based on a passive optical network

Krasen Angelov¹, Stanimir Sadinov¹, Panagiotis Kogias², Michail Malamatoudis¹

¹*Technical University of Gabrovo*

²*TEI – Kavala, Greece*

Simulation modeling and research of 8-channel WDM system

Stanimir Sadinov

Technical University of Gabrovo

Synchronization of transmitters in single frequency networks

Teodor Iliev¹, Grigor Mihaylov¹, Ivaylo Stoyanov¹, Stanimir Sadinov²

¹*University of Ruse*

²*Technical University of Gabrovo*

COMPUTER SYSTEM

Chairmen: Prof. Lyubomir Dakovski, D.Sc., Assoc. Prof. Ivan Simeonov, Ph.D.
Building № 3, Hall 3312
Beginning: 13.00 h.

Intel and Xilinx tools used in the student's education process

Atanas Nikolov Kostadinov

Technical University – Sofia, Plovdiv branch

Static multi-stream word-based compression algorithm

Emir ÖZTÜRK, Altan MESUT

Computer Engineering Department, Trakya University – Edirne / TURKEY

A photoplethysmographic method for measurement of the work of the heart

Galya Georgieva-Tsaneva, Krassimir Cheshmedzhiev

Institute of Robotics - Bulgarian Academy of Sciences

Determining the Hurst exponent of HRV by dispersion analysis and dispersion index

Galya Georgieva-Tsaneva

Institute of Robotics - Bulgarian Academy of Sciences

Computer system for classification of walnuts according to their external shell defects with acoustic receiving of information

Nikolay Shopov, Angel Kansazov, Nedyalko Katrandzhiev, Velina Kansazova

University of Food Technologies – Plovdiv

Analytical review of existing computer systems for monitoring of bee hives

K. Dineva

Institute of Information and Communication Technologies – Bulgarian Academy of Sciences, Sofia, Bulgaria

A basic model of optimization of the man - machine interaction and the analysis of the prospects of its use in ergonomics of automated systems

N.B. Pasko¹, E.A. Lavrov², Y.S. Mikhaylenko², T.V. Shcherban²

¹*Sumy National Agrarian University, Ukraine*

²*Sumy State University, Ukraine*

An IOT system for monitoring environmental conditions and orientation of the telescope

Dejan Vujičić¹, Željko Jovanović¹, Dijana Jagodić¹, Rade Pavlović², Nebojša Mitrović¹, Siniša Randić¹

¹*Faculty of Technical Sciences in Čačak, University of Kragujevac, Serbia*

²*Astronomical Observatory, Belgrade, Serbia*

Studnote - information technology of supporting E-learning with adaptation for mobile devices

Lavrov E.A., Perekhod E.A., Babko I.I.

Sumy State University, Ukraine

Monitoring of technical navigation tools

Stanislav Simeonov, Asen Iliev, Neli Simeonova

University „Prof. Dr. Assen Zlatarov”, Burgas

Web-based learning environments

Katya Dimova

Technical University of Gabrovo

COMPUTER TECHNOLOGIES

Chairmen: Assoc. Prof. Delyan Genkov, Ph.D., Sen. Assist. Yordan Kanev, Ph.D.
Building № 3, Hall 3303
Beginning: 13.00 h.

Difference between the asynchronous and threaded programming models

Borivoje Milošević¹, Stevan Vratnica², Slobodan Obradović³, Srdjan Jovković⁴

¹*Union Nikola Tesla University, Belgrade, Serbia*

²*Alfa University, Beograd, Serbia*

³*VISER, Beograd, Serbia*

⁴*College of Applied Technical Sciences, Niš, Serbia*

Application wrapper-based feature selection on C4.5 decision tree classifier

Jasmina Đ. Novakovic¹, Alempije Veljovic², Sinisa S. Ilic³, Vladimir Veljovic²

¹*Belgrade business school, Higher education institution for applied science, Belgrade, Serbia*

²*Faculty of technical science Cacak, University of Kragujevac, Cacak, Serbia*

³*Faculty of technical science in Kosovska Mitrovica, University of Pristina, Kosovska Mitrovica, Serbia*

Object model of power substation for reliability evaluation

Dragoslav Perić¹, Miladin Tanasković², Slobodan Obradović³

¹*VIPOS, Valjevo, Serbia*

²*Freelance Consultant, Belgrade, Serbia*

³*Information Technology School Belgrade, Serbia*

Functions and editing techniques for video clips

Ivanka Valova

Sofia University, FJMC

Performance study of virtualization and containerization platforms for big data processing

Daniel Trifonov, Hristo Valchanov

Technical University of Varna

Testing of vulnerabilities in wireless networks

Veneta Aleksieva, Zhecho Dimitrov

Technical University of Varna

Using "OPNET" for E-learning on telecommunication networks

Ivan Nedyalkov, Georgi Georgiev

University of telecommunications and post

Optimization of the parameters of a prototype for essential tremor attenuation

Antoaneta Hinova

Technical college – Lovech

Saturation and performance analyses on an educational data set with machine learning algorithms

Tolga Demirhan¹, Özlem Uçar²

¹*Trakya Üniversitesi Tunca Vocational College, Edirne Turkey*

²*Trakya Üniversitesi Engineering Faculty, Edirne Turkey*

3D computer model for personal fixator in orthopedic therapy

Mariyana Ivanova Nikolova, Kostadin Georgiev Boyadjiev

St. Cyril and St. Methodius University of Veliko Turnovo, Bulgaria

Method of formalized description of interaction in man-machine systems

Pasko N.B.¹, Lavrov E.A.², Fedorova A.V²

¹*Sumy National Agrarian University, Ukraine*

²*Sumy State University, Ukraine)*

Analysis of mobile banking in east Serbia

Radmila Janković¹, Darko Brodić²

¹*Mathematical Institute of the Serbian Academy of Sciences and Arts Kneza Mihaila 36, 11000 Belgrade, Serbia*

²*Technical Faculty in Bor University of Belgrade V.J. 12, 19210 Bor, Serbia*

The statistical correlation of demographic factor influence to solving facial expression captchas

Darko Brodić, Branislav Ivanov, Milena Jevtić

Technical Faculty in Bor V.J. 12, 19210 Bor, Serbia

A mobile interface for an electronic exam system

Cem TASKIN¹, Deniz TASKIN¹, Ismail FILIZ²

¹*Trakya University, Turkey*

²*Orca Business Solutions*

Crypto-currency in the digital economy as a challenge to centralized money issuing

Goran Bjelobaba¹, Ana Savic², Hana Stefanovic³

¹*The National Bank of Serbia, Belgrade, Republic of Serbia*

²*School of Electrical and Computer Engineering of Applied Studies, Belgrade*

³*Com Trade, Information Technology School of Applied Studies, Belgrade*

Experimental model of virtual server based on vmware esxi

Jordan Kanev

Technical University of Gabrovo

The design of an emulator

Alpay DORUK, H. Nusret BULUŞ

Namık Kemal University, Turkey

Java spring boot rest web service integration with java artificial intelligence weka framework

Željko Jovanović, Dijana Jagodić, Dejan Vujičić, Siniša Randić

Faculty of Technical Sciences in Čačak, University of Kragujevac, Serbia

Evaluation of hap, anglesharp and htmdocument in web content extraction

Erdiñç Uzun, H. Nusret Buluş, Alpay Doruk, Erkan Özhan

Namık Kemal University, Turkey

Comparison of string matching algorithms in web documents

H. Nusret Buluş, Erdiñç Uzun, Alpay Doruk

Namık Kemal University, Turkey

Detecting and counting similar objects in image using template matching technique

Ozan AKI, Aydın GÜLLÜ, Yusuf AVŞAR, Emrah AYDIN

Trakya University, Turkey

Measurement of software reliability

Aleksandar Dimov¹, Krasimir Baylov²

¹University of Sofia “St. Kliment Ohridski”, Faculty of Mathematics and Informatics, Institute of Mathematics and Informatics Bulgarian Academy of Sciences

²University of Sofia “St. Kliment Ohridski” Faculty of Mathematics and Informatics

AUTOMATION

Chairmen: Assoc. Prof. Dragomir Chantov, Ph.D., Assoc. Prof. Stefan Ivanov, Ph.D.,
Building № 3, Hall 3410
Beginning: 13.00 h.

Geo-referenced sensors and sensor networks

Kamen Boyadzhiev, Stefan Ivanov

Technical University of Gabrovo, Department of Automation, Information and Control Systems (AICS)

Data transfer in real-time cost calculation

Sezgin ERSOY

Marmara University, Turkey

Smart Cartesian robotic arm

Hilmi KUSCU, Kaan Ertugrul

Trakya University, Mechanical Engineering Department, Edirne/ Turkey

Research of the transitional process in an electrical circuits via MATLAB environment

Velislava Raydovska, Velichko Manev, Anton Haritev, Angel Chekichev

University of Plovdiv Paisii Hilendarski Faculty of Physics and Technology

Comparative analysis of the possibilities for angular positioning of the detail in milling machines

Marin Zhilevski¹, Madlena Zhilevska²

¹*Technical University of Sofia*

²*Technical College of Lovech*

Design of chaotic synchronization system combining antisynchronization with marginal synchronization

Dragomir Chantov, Hristina Stoycheva

Technical University of Gabrovo

Approximation of function through a hardware realized neural network

Stanko Stankov, Stefan Ivanov

Technical University of Gabrovo

Computer-based system for humidity and temperature measurements

Nedyu Nedev, Zvezditzha Nenova

Technical University of Gabrovo

Development of a PLC based data acquisition and control system for biomass gasifiers

Figan DALMIŞ¹, Serkan TUĞ¹

¹*Namik Kemal University the Vocational School of Technical Sciences*

Fuzzy PID² controller for vibratory bowl feeder

Georgi Mihalev, Stanimir Yordanov

Technical University of Gabrovo

Global synchronization of three identical chaotic systems

Hristina Stoycheva

Technical University of Gabrovo

Precision filling control application with PLC for big bag scale automation

Aydın GÜLLÜ, Emrah AYDIN, Ozan AKI, Hilmi KUŞÇU

Trakya University, Turkey

Recycling of cables

Aydın GÜLLÜ, Yusuf AVŞAR

Trakya University, Turkey

Android based online induction motor torque analysis and control tool

Fatih Issi¹, Orhan Kaplan², Mustafa Karhan¹

¹*Cankiri Karatekin University*

²*Gazi University*

Examining the quality of university classes time-table

Fatme Rashidova

Technical University of Gabrovo

Methods for protection of web applications

Aldeniz Rashidov

Technical university of Gabrovo

MATHEMATICS AND INFORMATICS

Chairmen: Prof. Stoyan Kapralov, D. Sc., Sen. Assist. Bilyana Stoinova, Ph.D.

Building № 1, Hall 1344

Beginning: 13.00 h.

Long short term memory in MLP pair

Todor Balabanov

*Institute of Information and Communication Technologies - Bulgarian Academy of Sciences
akad. Georgi Bonchev Str., block. 2, office 514, 1113 Sofia, Bulgaria*

Genetic algorithms based training of artificial neural networks with neuron permutation applied

Iliyan Zankinski

*Institute of Information and Communication Technologies - Bulgarian Academy of Sciences
akad. Georgi Bonchev Str., block. 2, 1113 Sofia, Bulgaria*

Slot machine reels reconstruction with monte-carlo search

Petar Tomov, Iliyan Zankinski, Todor Balabanov

*Institute of Information and Communication Technologies - Bulgarian Academy of Sciences
akad. Georgi Bonchev Str., block. 2, office 514, 1113 Sofia, Bulgaria*

Calculation of human step length by using the golden section search algorithm

Taşkın TEZ¹, Hilmi KUŞÇU²

¹*Edirne Sultan Murat I State Hospital Edirne /TÜRKİYE*

²*Trakya University Faculty of Engineering Department of Mechanical Engineering Edirne /TÜRKİYE*

Application of technics for analysis of big data - issues and problems

Petar Halachev

University of Chemical Technology and Metallurgy

Exploratory analysis of time series for hypothesize feature values

Tatiana Atanasova, Maria Barova

Institute of Information and Communication Technologies – BAS

Modeling and analysis of time series

Petar Tomov, Vladimir Monov

Institute of Information and Communication Technologies - Bulgarian Academy of Sciences

An application of MS excel in solving linear programming problems

Bilyana Stoinova

Technical University of Gabrovo

Enumeration of some closed knight paths

Stoyan Kapralov¹, Valentin Bakoev², Kaloyan Kapralov³

¹*Technical University of Gabrovo*

²*V. Turnovo University*

³*Skyscanner Bulgaria*

Creative thinking and skills for scientific work in undergraduate and graduate students in medicine

Katya Peeva, Jivka Tsokeva, Irena Ganeva, Viktoriya Dyakova, Svetlana Dimitrova
Faculty of Medicine, Trakia University, Stara Zagora

Identifying strategies for the promotion of scientific research skills to medical students

Viktoriya Dyakova, Niamh O'Donoghue, Jacqueline Zarkos, Daniel Addai, Svetlana Dimitrova, Jivka Tsokeva, Irena Ganeva, Katya Peeva
Faculty of Medicine, Trakia University, Stara Zagora

Analysis of big data by usage of olap methods

Petar Halachev

University of Chemical Technology and Metallurgy

DESIGN OF MACHINES AND INSTRUMENTS

Chairmen: Prof. Galya Duncheva, D. Sc., Assoc. Prof. Angel Anchev, Ph.D.
Building № 1, Hall 1114
Beginning: 13.00 h.

Automatic integrated glass cleaning system design and architecture
Sezgin ERSOY, Ebuzer AYGUL, Ishak ERTUGRUL
Marmara University, Turkey

Hydroforming analysis of structural steel plates
S. Ozmen ERUSLU, I. Savas DALMIS
Namik Kemal University Corlu Engineering Faculty Mechanical Engineering Department, Corlu, Tekirdag, TURKEY

Influence of syngas composition on calculations of flow rate measured by using orifice plates
Serkan TUĞ, Figan DALMIŞ
Namik Kemal University Vocational School of Technical Sciences, Turkey

TECHNOLOGIES IN MECHANICAL ENGINEERING

Chairmen: Assoc. Prof. Yosif Mitev, Ph.D., Assist. Hristian Mitev
Building № 1, Hall 1110
Beginning: 13.00 h.

Design and control of plastic bottle breaking and storage machine

Sezgin ERSOY, Ebuzer AYGUL, Ersin TOPTAŞ

Marmara University, Turkey

Turntable electrohydraulic wiring design and prototype manufacturing

Rasim ORHAN, Soner ÇELEN

Department of Mechanical Engineering, Namık Kemal University, Tekirdağ, 59830, Turkey

Study of reliability for a class of milling machines

Madlena Zhilevska¹, Marin Zhilevski²

¹*Technical College of Lovech*

²*Technical University of Sofia*

Compress usage for design of a storage tank and cost analysis of spot and full radiographic control

M. Tahir ALTINBALIK¹, Selin KANTUR²

¹*Trakya University Engineering Faculty*

²*Kurtul Machine A.Ş.*

Material selection in determination of position and size for artificial organs

Sezgin ERSOY¹, İshak ERTUĞRUL¹, Osman ÜLKİR¹, İbrahim TEMİZ²

¹*Marmara University, Technology Faculty, Mechatronics Engineering, Istanbul, TURKEY*

²*Marmara University, Institute of Pure and Applied Sciences, Mechatronics Engineering, Master Student, Istanbul, TURKEY*

Principles hybrid motor with energy recovery based pneumatic

Yanitsa N. N.

Kremenchuk Mykhailo Ostrohradskyy National University, Ukraine

Development of water-heating convective drying equipment

Safarov J.E., Sultanova Sh.A.

Tashkent state technical university named after Islam Karimov

Results of research of various thermal-containing materials based on renewable sources

Safarov J.E., Dadaev G.T.

Tashkent state technical university named after Islam Karimov

Experimental test of hydraulic external gear pumps

I. Savas DALMIS¹, S. Ozmen ERUSLU¹, Murat BAHTİYAR²

¹*Namık Kemal University Corlu Engineering Faculty Mechanical Engineering Department, Corlu, Tekirdağ, TURKEY*

²*Hema Hydraulic Machinery Industry and Trade Company, Çerkezköy, Tekirdağ, TURKEY*

Stacking sequence optimization with failure criteria

Fatih KARACAM, Taner TIMARCI

Trakya University, Department of Mechanical Engineering, 22030, Edirne, TURKEY

A research of aln coatings obtained from direct current reactive magnetron sputtering

Nikolay Ivanov, Dimitar Dechev, Petar Petrov, Maria Ormanova

Institute of Electronics Bulgarian Academy of Science 72 Tzarigradsko Chausse, 1784 Sofia, BULGARIA

Providing mechanical characteristics of welding-soldered thin-walled structures of five-component heat-resistant alloys

Evgeny Lashko¹, Olexandr Salenko¹, Irina Gusarova²

¹*Kremenchuk Mykhailo Ostrohradskyi National Universit¹*

²*Yuzhnoye Design Office*

Regarding the possibilities of applying the metal injection moulding method in bimetal cutting tools production

Plamen Trifonov, Kalin Anastasov, Hristo Hristov, Irina Aleksandrova

Technical University of Gabrovo

Stress analysis of sinusoidal curved gear profiles

Gurkan IRSEL, Onder AYER, Mustafa ARDA

Trakya University, Turkey

Technological approach to fix the elements in the art stained glass

Martin Zlatkov, Zdravka Braykova – Nikolova, Nikolay Angelov

Technical University of Sofia

Surface electron beam alloying light metals using TiCN nanoparticles

R. Lazarova¹, R. Dimitrova¹, St. Parshorov¹, P. Petrov²

¹*Institute of Metal Science Equipment and Technology with Hydro- and Aerodynamic Center "Acad. A. Balevski"- BAS, 67 Shipchenski prohod blvd.,1574 Sofia, Bulgaria*

²*Institute of Electronics "Acad. E. Djakov"- BAS, Tzarigradsko Chausse 72, 1784 Sofia, Bulgaria*

Exploring and analyzing the operational reliability of a gearbox

Stefan V. Stoychev

Technical College-Lovech

Experimental and theoretical investigation of a single-stage refrigeration system

Oktay Hacıhafızoğlu, Erhan Akyol

Trakya University, Engineering Faculty, Department of Mechanical Engineering

Friction weld of AISI 304 stainless steel and pure copper materials

Mumin Sahin, Cenk Misirli, Selcuk Selvi

Trakya University, Turkey

HYDRAULICS, PNEUMATICS AND HEAT ENGINEERING

Chairmen: Assoc. Prof. Hristo Hristov, Ph.D., Sen. Assist. Valentin Petkov, Ph.D.
Building № 1, Hall 1300
Beginning: 13.00 h.

Reliability of pipes with a defect in the volumetric hydraulic systems

N. Stefanov, K. Ormandzhiev, I. Iliev

Technical University of Gabrovo

The questions of formation the hydraulic jet in impulse fire extinguishing systems

Serhiy Stas, Denys Kolesnikov, Artem Bychenko

Cherkasy Institute of Fire Safety named after Chernobyl Heroes

Alternative energy system design for agricultural irrigation

Aytaç MORALAR, Soner ÇELEN

Namık Kemal University, Turkey

Comparison of drying time of microwave and hybrid dryer

Soner ÇELEN¹, Aytaç MORALAR¹, Mehmet Akif KARATAŞER²

¹*Namık Kemal University, Çorlu Engineering Faculty Çorlu/Tekirdağ, TURKEY*

²*Namık Kemal University Vocational School of Technical Sciences Tekirdağ, TURKEY*

Design of corrosion test mechanism with pneumatic system for window espagnolette counter

Aytaç MORALAR

Namık Kemal University, Çorlu Engineering Faculty Çorlu/Tekirdağ, TURKEY

Occurrence and types of cavitation in hydraulic machines and systems

Georgi Panchev, Hristo Hristov

Technical University of Gabrovo

CHEMISTRY AND ECOLOGY

Chairmen: Assoc. Prof. Pencho Stoychev, Ph.D., Sen. Assist. Dragomir Vasilev, Ph.D.
Building № 1, Hall 1314
Beginning: 13.00 h.

Study accumulation of mercury in freshwater hydrobionts in the black sea region

Pencho Stoychev

Technical University of Gabrovo

Analysis of results radiological monitoring of the natural water in the area of NPP "Kozloduy"

Pencho Stoychev

Technical University of Gabrovo

The threats of cave tourism on bats, a literature review

Serbüilent PAKSUZ¹, Beytullah ÖZKAN²

¹*Department of Primary Education, Faculty of Education, Trakya University, 22030 Edirne, Turkey*

²*Department of Biology, Faculty of Science, Trakya University, 22030 Edirne, Turkey*

Solidificationstabilization technology as a waste disposal method

Esra Tınmaz Köse¹, Aylin Akyıldız²

¹*Namık Kemal University, Corlu Engineering Faculty, Department of Environmental Engineering Corlu/Tekirdag, TURKEY*

²*Namık Kemal University, Corlu Engineering Faculty, Department of Civil Engineering Corlu/Tekirdag, TURKEY*

Trends of renewable energy production and consumption in Bulgaria

Daniela Toneva, Todorka Stankova, Mariyan Nedev

Technical University of Varna

Research on forecasting models for air pollutants dispersion

Daniela Toneva, Aneta Todorova, Todorka Stankova

Technical University Varna

Waste materials in concrete

Aylin Akyıldız¹, Esra Tınmaz Köse²

¹*Namık Kemal University, Corlu Engineering Faculty, Department of Civil Engineering Corlu/Tekirdag, TURKEY*

²*Namık Kemal University, Corlu Engineering Faculty Department of Environmental Engineering Corlu/Tekirdag, TURKEY*

Application of infrared spectroscopy for analyzing industrial toxic chemical substances

Pavlina Yordanova Peneva

NMU "V. Levski" – V. Tarnovo

On the effectiveness of filters used for purifying drinking water

Pavlina Yordanova Peneva

NMU "V. Levski" – V. Tarnovo

PHYSICS

Chairmen: Sen. Assist. Plamen Danailov, Ph.D., Sen. Assist. Nikolay Angelov, Ph.D.

Building № 1, Hall 1406

Beginning: 13.00 h.

Molecular dynamics simulations of glass formation in cu-based bulk metallic alloy

Sedat SENGUL¹, Unal DOMEKELI¹, Cem CANAN², Murat CELTEK³

¹*Department of Physics, Faculty of Science, University of Trakya, 22030, Edirne, TURKEY*

²*Edirne Vocational College of Technical Science, University of Trakya, 22020 Edirne, TURKEY*

³*Faculty of Education, University of Trakya, 22030, Edirne, TURKEY*

Effect of pressure on microstructure evolution of bulk liquid hafnium during rapid solidification: a classical molecular dynamics simulation study

Murat CELTEK¹, Cem CANAN², Unal DOMEKELI³, Sedat SENGUL³

¹*Faculty of Education, Trakya University, Edirne, Turkey*

²*Edirne Vocational College of Technical Science, Trakya University, Edirne, Turkey*

³*Faculty of Science, Trakya University, Edirne, Turkey*

Size dependent thermodynamic properties of silicon nanowires by atomic simulation method

Ünal DÖMEKELİ³, Murat ÇELTEK¹, Cem CANAN², Sedat ŞENGÜL³

¹*Faculty of Education, University of Trakya, 22030, Edirne, TURKEY*

²*Edirne Vocational College of Technical Science, University of Trakya, 22020 Edirne, TURKEY*

³*Department of Physics, Faculty of Science, University of Trakya, 22030, Edirne, TURKEY*

Structural evolution of liquid Si by molecular dynamics simulations

Cem CANAN¹, Sedat ŞENGÜL², Murat ÇELTEK³, Ünal DÖMEKELİ²

¹*Edirne Vocational College of Technical Science, Trakya University*

²*Faculty of Science, Trakya University*

³*Faculty of Education, Trakya University*

Formation and characterization of tin and tin/tio₂ coatings deposited on CO-CR alloys

T. Hikov¹, D. Dechev¹, S. Valkov¹, S. Parchorov², N. Ivanov¹, P. Petrov¹

¹*Institute of Electronics of Bulgarian Academy of Sciences, Tzarigradsko Chausse 72, 1784 Sofia, Bulgaria*

²*Institute of Metal Science Equipment and Technology with Hydro- and Aerodynamic Center "Acad. A. Balevski"- BAS, 67 Shipchenski prohod blvd.,1574 Sofia, Bulgaria*

Influence of speed onto contrast for laser marking of samples from metals and alloys

Nikolay Angelov

Technical University of Gabrovo

Magnitudes with complex character, influencing of laser marking contract

Nikolay Angelov

Technical University of Gabrovo

Soil-to-plant transfer factor of natural radionuclides in medical plants from nature park Shumensko plato

N. Arhangelova¹, D. Nedeva², Zh. Dimitrova¹, G. Yordanova¹

¹*Shumen University*

²*Technical University of Gabrovo*

Radionuclides in medical plants collected of the natural park "Shumensko plato"

N. Arhangelova¹, D. Nedeva², Zh. Dimitrova¹, G. Yordanova¹

¹*Shumen University*

²*Technical University of Gabrovo*

High temperature orientation download of partially crystalline polyester fibers. Influence of the temperature

Valentin Velev¹, Nina Arhangelova¹, Daniela Nedeva², Anton Popov³

¹*Konstantin Preslavsky University, Shumen, Bulgaria*

²*Technical University of Gabrovo, Bulgaria*

³*University "Prof. Dr. A. Zlatarov", Burgas, Bulgaria*

Chairmen: Assoc. Prof. Dimitar Dichev, D.Sc., Assoc. Prof. Dimcho Pulov, Ph.D.

Building № 2, Hall 2415

Beginning: 13.00 h.

Effect of instant metals on the properties of nanocomposites based on silicon structures and titanium dioxide, synthesized for solar collectors (part I)

Stefan Kirilov Kartunov

Technical University of Gabrovo

Effect of instant metals on the properties of nanocomposites based on silicon structures and titanium dioxide, synthesized for solar collectors (part II)

Stefan Kirilov Kartunov

Technical University of Gabrovo

Application of pseudorandom position encoder for crane positioning

Ivana Stojković, Goran Miljković, Dragan Denić, Dragan Živanović

University of Niš, Faculty of Electronic Engineering, Serbia

Knowledge and implementation of robots- platforms in higher engineering education

Mladen Milushev

Faculty of German Engineering Education and Industrial Management, Technical University Sofia, Bulgaria

Multi objective optimization of process parameters for single pass CNC turning

Miroslav Radovanović

University of Niš, Faculty of Mechanical Engineering, Niš, Serbia

Performances of abrasive water jet cutting with hyper pressure of 900 MPA

Miroslav Radovanović

University of Niš, Faculty of Mechanical Engineering, Niš, Serbia

Chairmen: Assoc. Prof. Dobrin Ganchev, Ph.D., Assist. Kameliya Tsanova

Building № 6, Hall 6206

Beginning: 13.00 h.

Prerequisites for the development and implementation of the balanced scorecard model of the national military and educational system

Terziev V. K.^{1,2}, Georgiev M.P.²

¹*Vasil Levski National Military University Veliko Tarnovo, Bulgaria*

²*University of Rousse, Rousse, Bulgaria*

The balanced scorecard model of the national defense system

Terziev V. K.^{1,2}, Georgiev M.P.²

¹*Vasil Levski National Military University Veliko Tarnovo, Bulgaria*

²*University of Rousse, Rousse, Bulgaria*

Verification of statistical hypotheses in measuring financial impairments of consumers in Bulgaria

Antonia Lazarova

European Higher School of Economics and Management

Design of consumer research in the presence of heteroskedasticity

Antonia Lazarova

European Higher School of Economics and Management

Comprehensive income and the timeliness of loss recognition in comprehensive income in banking sector in Bosnia and Herzegovina

Borka Popović, Slađana Paunović

Faculty of Economics East Sarajevo

The factor responsibility and its role to the efficiency of the Bulgarian financial control

Evgeniy Stoyanov¹, Krasimira Danailova²

¹*National Military University "V. Levsky"-V. Tarnovo*

²*Academy of Economics "D.A.Tsenov" – Svishtov*

Improving the system for evaluation of the personnel

Temenuzhka Halacheva¹, Desislava Serafimova²

¹*University of Chemical Technology and Metallurgy - Sofia*

²*Technical University – Sofia*

Status and trends in the development of the "CASCO" insurance of motor vehicles in Bulgaria (2005-2016)

Milen Mitkov¹, Plamen Parushev²

¹*Tsenov Academy of Economics, Svishtov*

²*Higher School of Transport "Todor Kableshkov", Sofia*

Status and trends in the development of the "CASCO" insurance of rail vehicles in Bulgaria (2005-2016)

Milen Mitkov¹, Plamen Parushev²

¹*Tsenov Academy of Economics, Svishtov*

²*Higher School of Transport "Todor Kableshkov", Sofia*

Tax morality: does society want to pay taxes at all? Comparison between Bulgaria and Germany

Jurgen Gemaynhardt¹, Svetla Panayotova²

¹*High School-Schmalkalden, Germany*

²*Technical University-Gabrovo, Bulgaria*

ORGANIZATION AND MANAGEMENT

Chairmen: Assoc. Prof. Veryana Boeva, Ph.D., Sen. Assist. Petko Naydenov, Ph.D.
Building № 6, Hall 6007
Beginning: 13.00 h.

Quantitative evaluation of consequences from accidents with dangerous chemical substances by use of simulation program „Aloha”

Elitsa Taseva, Stilijan Tchaoushev
University of Chemical Technology and Metallurgy

Development of a document management system in a low-budget environment

Stanišević Ilja¹, Obradović Slobodan², Petrović Đorđe³

¹*Valjevo Business School of Applied Studies, Valjevo, Serbia*

²*Information Technology School – ITS, Belgrade, Serbia*

³*Valjevo Business School of Applied Studies, Valjevo, Serbia*

Effects of the application of "intelligent" management systems in tourism

Evgeniy Stoyanov¹, Krasimira Danailova²

¹*National Military University “V. Levsky”- V. Tarnovo*

²*Academy of Economics “D.A.Tsenov” – Svishtov*

Strategic directions and mechanisms for ensuring the environmental and economic safety of agrarian land use

Mishenin Ye.V.¹, Mishenina N.V.¹, Yarovaya I.Ye.²

¹*Sumy State University, Ukraine*

²*Sumy National Agrarian University, Ukraine*

Environmental and economic, organizational and management characteristics of sustainable spatial forestry

Yarovaya I.Ye.

Sumy National Agrarian University, Ukraine

Employment restructuring enhanced by shared service centres

Anna Kislovska¹, Rima Tamošiūnienė²

¹*Mykolas Romeris University, Lithuania*

²*Vilnius Gediminas Technical University, Lithuania*

Methodology for studying the state of the furniture market and the consumer preferences when choosing products with a click-clack mechanism

Neli Nikolova

Technical University of Gabrovo

Marketing research of the market for production and trading of furniture with click-clack mechanism

Neli Nikolova

Technical University of Gabrovo

Using diagnostic approach to employees' performance evaluation in organizations

Tsanka Marinova Zlateva-Petkova

Technical University of Gabrovo

Management of research projects

Tsanka Marinova Zlateva-Petkova

Technical University of Gabrovo

Multi-criteria evaluation of watermill recovery methods

Miodrag M. Žižović¹, Dragan Turanjanin², Mališa R. Žižović³

¹*University Singidunum, Belgrade, Serbia*

²*College of Business, Blace, Serbia*

³*University of Kragujevac, Faculty of Technical Sciences, Čačak, Serbia*

Modification of critic method for weighted coefficients calculation

Mališa R. Žižović, Mladen Janjić, Nada Damljanović, Katarina Pavlović

Faculty of Technical Sciences in Čačak, University of Kragujevac, Serbia

Modules of a logistic information system

Petko Naydenov

Department of Management, Technical University of Gabrovo, Bulgaria

SOCIAL SCIENCES AND HUMANITIES

Chairmen: Assoc. Prof. Lilyana Rusanova, Ph.D., Assoc. Prof. Anton Antonov, Ph.D.
Building № 1, Hall 1201
Beginning: 13.00 h.

E-government in Bosnia and Herzegovina

Zvezdan Stojanović

European University Brčko, Bosnia and Herzegovina

Quality assurance in social work education: theoretical positions and educational challenges

Lilyana Rusanova

Technical University of Gabrovo

The problem of freedom: modern philosophical discourses

Usov Dmytro

Cherkasy Institute of Fire Safety

Formation and activity of voluntary firefighting in Ukraine in the interwar period

Tomilenko Andriy

Cherkasy Institute of Fire Safety

Extreme psychological training of the leaders of fire-rescue units to administrative activity

Andrii Snisarenko, Yana Snisarenko

Cherkasy Institute of Fire Safety named after Chernobyl Heroes of National University of Civil Protection of Ukraine

Attempt for systematization of training loads in sport games

Lachezar Cozev, Mariana Rohleva

University of Architecture, Civil Engineering and Geodesy, Sofia

From foreign language competence to foreign language culture in conditions of information and educational environment

Veselin Chantov

University of Library Studies and Information Technologies

Developing foreign language competence in an information and educational environment

Veselin Chantov

University of Library Studies and Information Technologies

Developing of transversal skills needed by social employees

Angelina Pencheva Pencheva

Technical University of Gabrovo

Interruption of limitation period in the light of new case law

Ivan Roushev

Sofia University "St. Kliment Ohridski"

**On the ground for interruption of the limitation period provided in art. 116,
"A" obligations and contracts act**

Ivan Roushev

Sofia University "St. Kliment Ohridski"

**Formation of professional competencies of students as a factor for willingness to
work in the social sphere**

Ivanka Stoyanova - Todorova

Technical University of Gabrovo, Bulgaria

EDUCATION TECHNOLOGIES

Chairmen: Assoc. Prof. Diana Izvorska, Ph.D., Sen. Assist. Tsanka Zlateva, Ph.D.

Building № 6, Hall 6210

Beginning: 13.00 h.

Educational projections of the geographical school training in Serbia

Tamara Draganova

St. Cyril and St. Methodius University of Veliko Turnovo

Situation analysis of the training on “Geography of countries” in the secondary school of Serbia

Tamara Draganova

St. Cyril and St. Methodius University of Veliko Turnovo

Cloud technologies in the development of the E-learning: theoretical aspects

Galina I. Sazhko¹, Danica S. Pirs²

¹ *Ukrainian Engineering Pedagogics Academy, Faculty of Computer and Integrated Technologies in Production and Education, Universitetskaya st. 16, 61003, Kharkov, Ukraine*

² *University of Nis, Faculty of Sport, Carnojevica 10a, 18 000 Nis, Republic of Serbia*

The specifics of the organization of teaching children of primary school age the basics of security

Tomilenko Andriy, Horenko Lesya

Cherkasy Institute of Fire Safety

Teaching digital controlled gain stage amplifiers with modelling in Tina-Ti environment application of open source platforms

Daniela Shehova, Velislava Raydovska, Slavi Lubomirov, Stanislav Asenov

University of Plovdiv Paisii Hilendarski Faculty of Physics And Technology

Development and justification of information and methodological filling of the theme "designing, prototyping and usability testing sites"

Galina I. Sazhko¹, Danica S. Pirs²

¹ *Ukrainian Engineering Pedagogics Academy, Faculty of Computer and Integrated Technologies in Production and Education, Universitetskaya st. 16, 61003, Kharkov, Ukraine*

² *University of Nis, Faculty of Sport, Carnojevica 10a, 18 000 Nis, Republic of Serbia*

New role model for teachers in higher education?

Hagen H. Hochrinner

FH Joanneum Gesellschaft m.b.H.

Questionnaire validation on example of planning and evaluation of hybrid learning courses

Biljana Kuzmanović, Marija Blagojević, Miloš Papić

University of Kragujevac, Faculty of Technical Sciences Čačak

Differences of learning styles between it and students of other study programs

Marija Blagojević, Biljana Kuzmanović, Miloš Papić

University of Kragujevac, Faculty of Technical Sciences Čačak

The computer simulation - technological and educational aspects

Mariyana NIKOLOVA, Gergana MARKOVA

St. Cyril and St. Methodius University of Veliko Turnovo, Bulgaria

Characteristics of a good teacher in the light of teacher candidates' views

Emine Pinar Paksuz¹, Serbüent Paksuz²

¹*Department of Mathematics and Science Education, Faculty of Education, Trakya University, 22030 Edirne, Turkey*

²*Department of Primary Education, Faculty of Education, Trakya University, 22030 Edirne, Turkey*

Design and evaluation of the mobile learning platforms

Oliver Popović, Branislav Bogdanović, Vladica Ubavić, Milan Deletić

Business school of professional studies Blace

An analysis of unit assessment questions in the 9th grade biology textbook based on bloom's taxonomy

Emine Pinar Paksuz¹, Yılmaz Çakıcı¹, Serbüent Paksuz²

¹*Department of Mathematics and Science Education, Faculty of Education, Trakya University, 22030 Edirne, Turkey*

²*Department of Primary Education, Faculty of Education, Trakya University, 22030 Edirne, Turkey*

Sustainable cooperation between the universities jade (Germany) and Texas tech (USA)

Josef Timmerberg¹, Anna Maria Thiele¹, Folker Renken¹, Kanagasabapath

Mylvaganam², Volker Lübben¹

¹*Jade University of Applied Sciences, Wilhelmshaven, Germany*

²*Hogskolen i Sorost-Norge, University College of Southeast Norway*