

**TECHNICAL UNIVERSITY OF SOFIA
PLOVDIV BRANCH**



Science Days of Technical University of Sofia

PROGRAM



**8-th INTERNATIONAL SCIENTIFIC CONFERENCE
"ENGINEERING, TECHNOLOGIES AND SYSTEMS"
*TECHSYS 2019***

16-18 May, Plovdiv, Bulgaria

TECHNICAL UNIVERSITY OF SOFIA, PLOVDIV BRANCH

8-th INTERNATIONAL SCIENTIFIC CONFERENCE "ENGINEERING, TECHNOLOGIES AND SYSTEMS"

TECHSYS 2019

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TABLE OF CONTENTS

TABLE OF CONTENTS.....	3
TIME SCHEDULE	4
OPENING CEREMONY ACTIVITIES	5
SECTION 1 - AUTOMATION, CONTROL SYSTEMS AND ROBOTICS.....	6
SECTION 2 - ELECTRICAL ENGINEERING AND ELECTRONICS.....	7
SECTION 3 - COMPUTER ENGINEERING, INFORMATICS AND COMMUNICATIONS.....	9
SECTION 4 - MECHANICAL ENGINEERING.....	11
SECTION 5 - AUTOMOTIVE AND AERONAUTICAL ENGINEERING.....	13
SECTION 6 - INDUSTRIAL MANAGEMENT AND DESIGN.....	14
SECTION 7 - MATHEMATICS, PHYSICS AND CHEMISTRY.....	17

TIME SCHEDULE

16 MAY 2019 17 MAY 2019	Registration from 09:00 till 16:00 Registration from 09:00 till 11:00 The conference will be held at Technical University of Sofia, Plovdiv Branch 25, Tsanko Dyustabanov Street, Plovdiv 4000, Bulgaria			
16 MAY 2019	14:00-14:30 h	TECHSYS 2019 Opening Ceremony - AULA		
	14:30-15:30 h	Plenary Session - AULA		
	15:30-16:00 h	Coffee Break Hall 4115		
	16:00-18:00 h	Section 1 Hall 4326	Section 2 Hall 4328	Section 3 Hall 4422
		Section 4 Hall 4425	Section 5 Hall 4327	Section 6 Hall 4325
		Section 7 Hall 4430		
19:00-22:00 h	Conference Dinner at Novotel Plovdiv			
17 MAY 2019	09:30-13:00 h	Section 1 Hall 4326	Section 2 Hall 4328	Section 3 Hall 4422
	<i>Coffee break 11:00-11:30 h Hall 4115</i>	Section 4 Hall 4425	Section 5 Hall 4327	Section 6 Hall 4325
		Section 7 Hall 4430	Poster Session After oral presentations in corresponding sections	
	<i>13:00-14:00 h</i>	Lunch Hall 4115		

TECHSYS 2019 Sections

- SECTION 1 - Automation, Control Systems and Robotics
- SECTION 2 - Electrical Engineering and Electronics
- SECTION 3 - Computer Engineering, Informatics and Communications
- SECTION 4 - Mechanical Engineering
- SECTION 5 - Automotive and Aeronautical Engineering
- SECTION 6 - Industrial Management and Design
- SECTION 7 - Mathematics, Physics and Chemistry

**8-th INTERNATIONAL SCIENTIFIC CONFERENCE
“ENGINEERING, TECHNOLOGIES AND SYSTEMS”
TECHSYS 2019**

OPENING CEREMONY ACTIVITIES

**16 MAY 2019
15:00 - 16:30 h**

I. Opening of 8-th International Conference “Engineering, Technologies and Systems” - TechSys 2019

*The conference will be held within the framework of the **Science Days of Technical University of Sofia** under the patronage of Cor. Mem. Prof. D.Sc. Eng Georgi Mihov - Rector of the Technical University of Sofia.*

II. Plenary Session

Chair: Prof. Eng. Michail Petrov, PhD

Digital Twin and AAS in the Industry 4.0 Framework

Prof. Eng. Zdenek Bradac, PhD

Prof. Eng. Frantisek Zezulka, PhD

Faculty of Electrical Engineering and Communication, Department of Control and Instrumentation, Brno University of Technology, Brno, Czech Republic

The lecture goes out from the state of the art in the area of Industry 4.0 initiative of the most developed countries. There are also discussed reasons of Industry 4.0 development and implementation into existing still developed technologies. According to the last development, the term digital twin became a very often-used word. Author explain differences in the content of the digital twin and recommend to use for the Industry 4.0 area the more appropriate and precise specified term – the Asset Administration Shell (AAS). Next parts of the lecture therefore deal with the Asset Administration Shell (AAS) in details to enable engineers, technicians and informatics from the praxis much more simple introduction in the Industry 4.0 problems and their solution. There is introduced and explained the structure of the AAS, the model and sub-models architecture, parameters and features.

SECTION 1	AUTOMATION, CONTROL SYSTEMS AND ROBOTICS Hall 4326 Chair: Andon Topalov Co-Chair: Krum Kutryanski
16 MAY 2019 16:00 - 18:00	<p>Application of Auto-Threshold plugin for cut surface evaluation of white cheese in brine <i>Atanaska Bosakova-Ardenska, Peter Panayotov, and Petya Boyanova</i></p> <p>White bread porosity evaluation by image processing with HisMedian algorithm <i>A. Bosakova-Ardenska, A. Danev, Tz. Gogova</i></p> <p>Optimal selection of feed electric drives for boring machines <i>M Zhilevski and M Mikhov</i></p> <p>Control of the chaotic processes in chaos shift keying communication system <i>Galina Cherneva, Elena Dimkina</i></p> <p>Embedded Walking Algorithm for Biped Humanoid Robot with 17 Degrees-of-Freedom <i>Sherif Sherif, Jordan Kralev, Tsonyo Slavov and Veselin Kunchev</i></p> <p>Assessment bias removal techniques used in case of sensor parametric modelling <i>PI Nikovski</i></p> <p>Evolution of entanglement in quantum neural network <i>Ufuk KORKMAZ, Deniz TÜRKPENÇE, Tahir Cetin AKINCI, Serhat ŞEKER</i></p>
17 MAY 2019 9:30 - 13:00 Coffee break 11:00 -11:30	<p>Algorithm development with LoRaWAN for monitoring system <i>Stoicho Penkov, Albena Taneva</i></p> <p>Modeling of an automatic hot water system and heating of a building <i>N Komitov and D Spirov</i></p> <p>Simulation modeling of RTM with parallel structure <i>Chavdar Kostadinov, Ivanka Peeva</i></p> <p>System development for machine vision intelligent quality control of gas cylinders <i>Borislav Rusenov, Albena Taneva, Ivan Ganchev</i></p>

SECTION 1	AUTOMATION, CONTROL SYSTEMS AND ROBOTICS Hall 4326 Chair: Andon Topalov Co-Chair: Krum Kutryanski
	<p>A Stable Trajectory Tracking Controller for Multi Robot Formation <i>Nikola Shakev, Andon V. Topalov, Sevil A. Ahmed, Vasil L. Popov</i></p> <hr/> <p>Методи за трансфер на данни в ERP системите за управление на производството <i>Радослав Хрисчев</i></p> <hr/> <p>Process model as a basis for intellectual control in real time by the processes of the production enterprise <i>O. Novikova, A. Kotsyubinsky, N. Yudina, S. Livshits, T. Dunaeva</i></p> <hr/> <p>Development of Algorithms and Software for Automatic Pedestrian Recognition for Intelligent Situation Control Systems <i>N. Abramov, V. Rakova, D. Barinov, A. Leksashov and E. Pridanova</i></p> <hr/> <p>Face Validation Based Anomaly Detection Using Variational Autoencoder <i>B. Zeno, Yu. Matveev, B. Alkhatib</i></p> <hr/> <p>Comparative Review of Cross-Domain Generative Adversarial Networks <i>B. Zeno, I. Kalinovskiy and Yu. Matveev</i></p> <hr/> <p>Examination of a repetitive process control system <i>Nina G. Nikolova</i></p>
SECTION 2	ELECTRICAL ENGINEERING AND ELECTRONICS Hall 4328 Chair: Galidia Petrova Co-Chair: Nikola Georgiev
16 MAY 2019 16:00 - 18:00	<p>Sputtering of Ga-doped ZnO nanocoatings on silicon for piezoelectric transducers <i>M Aleksandrova, T Tsanev, G Dobrikov, G Kolev, M Sophocleous, J Georgiou and K Denishev</i></p> <hr/> <p>Optical diagnostics of the condition of the cardio vascular system one the basis of optoelectronic methods <i>S S Yesman, D V Veligotsky, S O Mamilov, A I Gisbrecht, V S Mircheva, L B Zaharieva</i></p>

SECTION 2	ELECTRICAL ENGINEERING AND ELECTRONICS Hall 4328 Chair: Galidia Petrova Co-Chair: Nikola Georgiev
	<p>Interference wedged structures as high efficient optical beam splitters – development and simple practical realization <i>Margarita Deneva, Pepa Usunova, Nadejda Kaimakanova, Dimitar Atanasov, Nikolay Ivanov, Marin Nenchev, Elena Stoykova and Petar Petrov</i></p> <hr/> <p>Design of phased antenna array for UHF RFID application <i>Ivaylo Nachev, Peter Z. Petkov</i></p> <hr/> <p>Primary analytical model for determining the electron temperature of a CuBr laser <i>S G Gocheva-Ilieva, I P Iliev and D V Fidanov</i></p> <hr/> <p>Energy efficiency of atmospheric pressure plasma-aided porous media surface finishing <i>D N Gospodinova, P D Dineff</i></p>
<p>17 MAY 2019 9:30 - 13:00</p> <p>Coffee break 11:00 -11:30</p>	<p>Study of the short-circuit currents in branches of distribution networks with trilateral power supply <i>M I Matsankov</i></p> <hr/> <p>Study of a two-spring electromagnetic harvester <i>N P Georgiev and R P Raichev</i></p> <hr/> <p>Study of two-spring piezoelectric harvesters <i>N P Georgiev and R P Raichev</i></p> <hr/> <p>Determining the parameters of induction motors by Genetic Algorithms <i>Stela Stoykova and Vasil Spasov</i></p> <hr/> <p>Choice of fitness functions and parameter settings in Genetic algorithms for analysis of induction motors <i>Stela Stoykova and Vasil Spasov</i></p> <hr/> <p>Analysis of the influence of some factors on the contact resistance of bolted busbar connections <i>Ivan Hadzhiev, Dian Malamov, Iosko Balabozov and Ivan Yatchev</i></p> <hr/> <p>Analysis of the active and reactive power of a wind power plant with SCIG generators, connected to a high power electrical grid <i>Ivan Hadzhiev, Dian Malamov and Aleksandar Georgiev</i></p>

SECTION 2	ELECTRICAL ENGINEERING AND ELECTRONICS Hall 4328 Chair: Galidia Petrova Co-Chair: Nikola Georgiev
	<p>Winding distribution influence of some current limiting devices certain parameters <i>Dinyo Ivanov Kostov</i></p> <p>Factor analysis of the quality of electricity <i>Vania Rangelova, Vasil Drambalov</i></p> <p>Application of silver antibacterial nanolayers for hard contact lenses coating <i>Krassimir Koev, Nikolay Donkov, Nadya Stankova, Hristo Najdenski, Timerfayaz Nurgaliev, Rumen Nikov, Latchezar Avramov</i></p> <p>New ultraviolet irradiation apparatus for corneal cross- linking <i>Krassimir Koev and Latchezar Avramov</i></p> <p>Development of decision algorithms in the driver fatigue monitoring and prediction system based on a wireless multisensor device <i>A. Vasiliev, N. Martiusheva, A. Boykov, N. Vyatkin, K. Nikitin</i></p>
SECTION 3	COMPUTER ENGINEERING, INFORMATICS AND COMMUNICATIONS Hall 4422 Chair: Grisha Spasov, Nikolay Kakanakov Co-Chair: Dilyana Budakova
16 MAY 2019 16:00 - 18:00	<p>Financial investments by Portfolio Optimization <i>Todor Stoilov, Krasimira Stoilova and Miroslav Vladimirov</i></p> <p>A Study of Wi-Fi Security in City Environment <i>H Valchanov, J Edikyan, V Aleksieva</i></p> <p>Object-oriented pseudo-random data generator realizations <i>Tony Karavasilev</i></p> <p>Introduction to Health Information Technologies <i>Donka Nesheva</i></p>

SECTION 3	COMPUTER ENGINEERING, INFORMATICS AND COMMUNICATIONS <p style="text-align: right;">Hall 4422</p> <p style="text-align: right;">Chair: Grisha Spasov, Nikolay Kakanakov Co-Chair: Dilyana Budakova</p>
17 MAY 2019 9:30 - 13:00	Computer technologies in shipping and new tendency in ship's officers education and training <i>Blagovest Belev, Sevdalin Daskalov</i>
Coffee break 11:00 -11:30	Conceptual frame model for the presentation of the concepts and rules in natural language interface for database <i>M Zhekova and G Totkov</i>
	Review paper: bot detection on twitter <i>Alina Amanzholova, Aysun Coskun, Yasin Akman</i>
	Designing a Communication System for Secure Access to Network Devices <i>Tarik Yerlikaya and Senol Sen</i>
	An approach of Crypto-token for Smart Contract based on Ethereum Blockchain <i>V Aleksieva, A Hulyan, H Valchanov</i>
	Адаптиране на лабораторни упражнения по компютърни системи и технологии <i>Атанас Костадинов, Красимир Колев</i>
	Smart shopping system <i>Dilyana Budakova, Lyudmil Dakovski</i>
	Applying Reinforcement learning to find the logic puzzles solution <i>Dilyana Budakova, Velyo Vasilev</i>
	FPGA based Canny: advanced gradient direction algorithm focused on optimal speed and total mathematical accuracy <i>Dimitre Kromichev</i>
	Optimal speed algorithm for calculating high and low thresholds to be used in FPGA based Canny focused on maximum performance <i>Dimitre Kromichev</i>
	Legal data extraction and possible applications <i>K Stoykov and S Chelebieva</i>

SECTION 3	COMPUTER ENGINEERING, INFORMATICS AND COMMUNICATIONS <p style="text-align: right;">Hall 4422</p> <p style="text-align: right;">Chair: Grisha Spasov, Nikolay Kakanakov Co-Chair: Dilyana Budakova</p>
	<p>Combination of Virtual Private Network and Wireless Sensor Network: Protection Against The Interference Problem of IOT <i>Pramathesh Majumdar, Rachna Jain, Ayushi Pandey, Rana Majumdar, Sunil Kumar Khatri</i></p> <hr/> <p>Substantiation of multinomial classification using ensemble learning approach <i>Lipika Goel, D. Damodaran, Mayank Sharma and Sunil Kumar Khatri</i></p> <hr/> <p>Algorithm for assessing the quality of service in special-purpose networks during operation <i>N. Kireeva, V. Zastupov</i></p> <hr/> <p>Assessment of the Internet of Things Projects on the Real Estate Market <i>S. Pupentsova, V. Leventsov, M. Livintsova, N. Alexeeva, S. Vodianova</i></p> <hr/> <p>The artificial intelligence methods testing in case of engineering diagnostics system creation of the synchronous machines <i>V. Polishchuk, K. Baratova</i></p>
SECTION 4	MECHANICAL ENGINEERING <p style="text-align: right;">Hall 4425</p> <p style="text-align: right;">Chair: Pepo Yordanov Co-Chair: Iliya Chetrokov</p>
16 MAY 2019 16:00 - 18:00	<p>Assessment of the thermophysiological comfort of surgeons and patient in an operating room based on PMV-PPD and PHS indexes <i>Radostina A. Angelova, Rositsa Velichkova</i></p> <hr/> <p>Kinematic study of the articulated trucks operating layout of turn for articulated vehicles <i>Y. P. Sofronov, Y. P. Stoyanova, N. E. Koprlev, G. D. Todorov</i></p> <hr/> <p>Analysis of some problems in the theoretical wagon strength studies due to the imperfection of the European legislation <i>V Stoilov, S Slavchev, S Purgic, V Maznichki</i></p>

SECTION 4	MECHANICAL ENGINEERING Hall 4425 Chair: Pepo Yordanov Co-Chair: Iliya Chetrokov
	<p>Methodology for assessment of material fatigue in the area of welded joints of railway bogies by calculation <i>S Slavchev, V Maznichki, V Stoilov, S Enev and S Purgich</i></p> <p>Deposition and tribomechanical study of nanolaminate Ti/TiN/AlTiSiN/(AlTiSiN/TiAlSiN)_n/AlTiSiN hard coating <i>Velko Rupetsov, Lilyana Kolaklieva, Vassiliy Chitanov, Milko Angelov, Raycho Raychev, Zlatko Zlatanov and Chavdar Pashinski</i></p> <p>System for materials testing at static loading <i>V Tsonev, N Kuzmanov, B Borisov and K Penkov</i></p>
<p>17 MAY 2019 9:30 - 13:00</p> <p>Coffee break 11:00 - 11:30</p>	<p>The application of brain activity as a method for assessment of the human thermophysiological comfort and performance in cold indoor environment <i>R. A. Angelova, E. Georgieva, D. G. Markov, N. Kehayova, I. Simova, P. Stankov</i></p> <p>CFD based design of a ventilated space <i>S. G. Mijorski, D. G. Markov, G.T. Pichurov, P. Stankov, N.G. Ivanov, I. S. Simova</i></p> <p>Analysis of significant floods in Bulgarian Danube region till 2010 <i>Rositsa Velichkova</i></p> <p>Изследване влиянието на модификатор Р на наномодификатор ND върху структурата на на надевтектична алуминий-силициева сплав AlSi18 <i>Ив Панов, Б Дочев, В Манолов, А Великов, В Дякова, П Кузманов</i></p> <p>Lowering the noise level in the transport flows through reduction of the traffic barrier reflected noise <i>I Kralov and K Nedelchev</i></p> <p>Some aspects of the informational support of technological processes <i>S Koleva</i></p> <p>Application of machine translation techniques for the automatic selection of the technological process <i>O. Iliashenko, A. Beseda, P. Pelikhov and T. Ermilova</i></p> <p>Qualitative analysis of oscillating magnetomechanical system <i>T S Todorov, R P Mitrev, B N Tudjarov, R F Nikolov</i></p>

SECTION 4	MECHANICAL ENGINEERING Hall 4425 Chair: Pepo Yordanov Co-Chair: Iliya Chetrokov
	A Method for Determining the Constant DC/AC Motor Power Range and Main Technological Spindle Unit Parameters <i>Sasho Guergov</i>
SECTION 5	AUTOMOTIVE AND AERONAUTICAL ENGINEERING Hall 4327 Chair: Hristian Panayotov Co-Chair: Krasimir Ambarev
16 MAY 2019 16:00 - 18:00	Green time period optimization at signalized intersection in Town of Pernik <i>Durhan Saliev and Iliian Andreev</i> <hr/> Method for experimental determination of the coefficients of stiffness and damping of rubber insulators <i>L P Kunchev and Z A Georgiev</i> <hr/> Determining the values of the Coefficient of Restitution in the meanwhile of a crash between two vehicles <i>Milena Savova-Mratsenkova, Georgi Djonev</i> <hr/> A multi-criteria approach for evaluating the urban transport technologies by using SIMUS method <i>Svetla D Stoilova</i> <hr/> Selecting a location for establishing a rail-road intermodal terminal by using a hybrid SWOT/MCDM model <i>Svetla D Stoilova and Svetoslav V Martinov</i> <hr/> Determining the velocity and the duration of the travel by the method of recording the registration numbers with the help of an integrated system of mobile LPR cameras <i>Iliyan Damianov, Georgi Mladenov, Milena Savova-Maratsenkova, Vladimir Hristov, Georgi Palagachev</i> <hr/> Optimal Control Synthesis of Semi Active Vehicle Suspension <i>I Angelov</i>

SECTION 5	AUTOMOTIVE AND AERONAUTICAL ENGINEERING Hall 4327 Chair: Hristian Panayotov Co-Chair: Krasimir Ambarev
17 MAY 2019 9:30 - 13:00	Comparative analysis of conventional and optimal methods for detail part design for light aircraft <i>A.O. Marinosyan and H. P. Panayotov</i>
Coffee break 11:00 -11:30	Numerical study of heat transfer between impinging gas jets and solid surfaces <i>Viktor Stoyanov, Valyo Nikolov and Manuel Garcia</i>
	Study on critical speeds of car's movement with low and ultra-low profile tires in a turn <i>S. Taneva, K. Ambarev and D. Katsov</i>
	Transonic flow hysteresis in divergent bent channels <i>Alexander Kuzmin</i>
	Multi-criteria synthesis of frequency- modulated discrete control of semi-active vehicle suspension - part 1 analysis and control strategies <i>J Genov</i>
	Multi-criteria synthesis of frequency- modulated discrete control of semi-active vehicle suspension - part 2 multi-objective synthesis <i>J Genov</i>
	Shock-wave structures of prospective combined ramjet engine <i>M V Chernyshov, K E Murzina, S A Matveev, V V Yakovlev</i>
	Stochastic algorithms in multimodal 3PL segment for the digital environment <i>S. Krasnov, E. Zotova, S. Sergeev, A. Krasnov, M. Draganov</i>
SECTION 6	INDUSTRIAL MANAGEMENT AND DESIGN Hall 4325 Chair: Toni Mihova Co-Chair: Desislava Shatarova
16 MAY 2019 16:00 - 18:00	Business-Science-Education: a Collaboration for Competitive and Sustainable Growth of the Wine Industry <i>M Angelova, P Georgiev, G Dimitrova and D Pastarmadzhieva</i>
	Application of Business Crisis Forecasting Models in Bulgaria <i>T Gigova, V Nikolova-Alexieva, K Valeva</i>

SECTION 6	INDUSTRIAL MANAGEMENT AND DESIGN Hall 4325 Chair: Toni Mihova Co-Chair: Desislava Shatarova
	<p>Features of industrial management in the field of ecology <i>Oleg Burgonov, Dmitrii Kruglov, and Elena Ivleva</i></p> <p>Digital business models in industrial enterprises <i>Toni Mihova, Konstantin Chukalov</i></p> <p>Investigation of the specifics of the motivation profile in the high-tech enterprises <i>Toni Mihova, Konstantin Chukalov, Alexandr Ferdov</i></p> <p>Features in management and monitoring of production process in manufacturing industry using integrated information technologies solutions <i>Pavel Vitliemov</i></p>
<p>17 MAY 2019 9:30 - 13:00</p> <p>Coffee break 11:00 -11:30</p>	<p>The application of game and psychological techniques when surveying children’s opinion <i>E Zlatanova-Pazheva</i></p> <p>Critical Thinking About Urban Studies Linked with Thermodynamic Terms <i>SH Bostanci</i></p> <p>Determining the Nature of Competition in Bulgarian Food Industry <i>T Gigova, K Valeva, V Nikolova-Alexieva</i></p> <p>A survey of criteria for a selection of logistics service providers: a case of Thailand’s automotive industry <i>Khanitta Norkaew and Panitas Sureeyatanapas</i></p> <p>Plug-in for creation of gamified courses in the e-learning environment moodle <i>M. Gachkova and E. Somova</i></p> <p>The role of information and communication technologies as a part of business intelligence in improving the wealth of nations <i>S. Evseeva, O. Kalchenko, K. Plis, O. Evseeva</i></p> <p>Digital Entrepreneurship: Doing Business for Smart and Sustainable Bio-Based Economy <i>V. Alexieva and M. Angelova</i></p> <p>Technological innovations and total factor productivity in dairy industry <i>Asen Konarev, Snezhinka Konstantinova and Gergana V. – Georgieva</i></p>

SECTION 6	INDUSTRIAL MANAGEMENT AND DESIGN Hall 4325 Chair: Toni Mihova Co-Chair: Desislava Shatarova
	Some Challenges to the Integrated Urban Development of Varna <i>Kremena Andonova, Ivanka Bankova</i>
	Researching the factor structure and identification of the main factors in sport orienteering <i>Daniel Vladimirov</i>
	Development of QFD methodology <i>Y. Klochkov, A. Gazizulina, M. Ostapenko</i>
	Data Management for Solving the Problem of Sequential Shaping Simulation <i>V. Mikheev, A. Grechnikova, D. Agafonova, Y. Klochkov</i>
	Filling a Knowledge Base for Expert System in Information Security <i>N. Kireeva, I. Pozdnyak, A. Gazizulina</i>
	Analytical model of the Interrelation between Enterprise's Activity and its Financial Stability <i>A. Sokolitsyn, M. Ivanov, N. Sokolitsyna and I. Babkin</i>
	Functional hybrid decision-making system for difficult formalized productive and economic problems <i>S. Korjagin, A. Babkin and P. Klachek</i>
	The control model of safety management systems <i>V. G. Burlov, O. M. Lepeshkin, M. O. Lepeshkin and F. A. Gomazov</i>
	Factors of economic efficiency of innovative entrepreneurship in the manufacturing industry <i>A. Alekseev, K. Khlebnikov, E. Fomin, N. Fomina, A. Salkina, E. Konnikov</i>

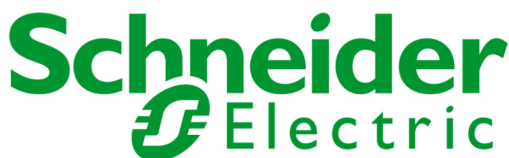
SECTION 7	MATHEMATICS, PHYSICS AND CHEMISTRY Hall 4430 Chair: V. Proycheva
<p>16 MAY 2019 16:00 - 18:00</p>	<p>Structure of a semisimple dihedral group algebra <i>I Gradeva and Y Epitropov</i></p> <p>variational principle for a class of nonlocal boundary value problems for mixed type higher-order equations <i>G. P. Paskalev</i></p> <p>Microscopic and surface analyses of corroded Mg alloys <i>Y Marcheva, M Loukaycheva, B Dimova, V Tsonev and N Kuzmanov</i></p> <p>Green inhibitor of corrosion of aluminium alloy EN AW-2011 in acidic environment <i>Kalina Kamarska</i></p> <p>Investigation of the effect of porosity on the particle deposition efficiency in the model of an open cell foam filter <i>Olga V. Soloveva, Rishat R. Khusainov, Evgeniy G. Sheshukov, Diana O. Panenko</i></p>
<p>17 MAY 2019 9:30 - 13:00</p> <p>Coffee break 11:00 - 11:30</p>	<p>Numerical simulation of the isoparaffins dehydrogenation in a bidisperse fluidized bed <i>Sergei A. Solovev, Ruzil R. Yafizov and Alexey V. Antipin</i></p> <p>Numerical investigation of the granule size effect on the reaction product yield in a catalyst fixed bed <i>Sergei A. Solovev, Rishat R. Khusainov, and Dilyara R. Nasretdinova</i></p> <p>Effect of temperature on the copigmentation interaction between aronia anthocyanins and sinapic acid with different methods <i>I. Petrova, V. Gandova</i></p> <p>Registration with the FET sensor of the electric change in the atmosphere <i>Metin Saltik, Mustafa Denктаş, M. Server Firat</i></p>



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