

TECHNICAL UNIVERSITY – SOFIA
PLOVDIV BRANCH

**FIFTH INTERNATIONAL SCIENTIFIC CONFERENCE
“ENGINEERING, TECHNOLOGIES AND SYSTEMS”**

TECHSYS 2016

26 - 28 May, Plovdiv

PROGRAM



ПРОГРАМА



ТЕХНИЧЕСКИ УНИВЕРСИТЕТ – СОФИЯ
ФИЛИАЛ ПЛОВДИВ

**ПЕТА МЕЖДУНАРОДНА НАУЧНА КОНФЕРЕНЦИЯ
“ТЕХНИКА, ТЕХНОЛОГИИ И СИСТЕМИ”**

ТЕХСИС 2016

26 - 28 май, Пловдив

The conference will be held within the framework of the **Science Days of Technical University of Sofia and 30th anniversary of the Technical University of Sofia, Branch Plovdiv** and under the patronage of Prof DSc Georgi Mihov - Rector of the Technical University of Sofia.



Конференцията ще се проведе в рамките на **Дни на науката на Технически университет - София и 30 годишнината на Технически Университет – София, филиал Пловдив** и под патронажа на проф. дтн. Георги Михов - Ректор на Технически Унивеверситет - София.

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“ТЕХНИКА, ТЕХНОЛОГИИ И СИСТЕМИ”**



IEEE

youngprofessionals

This conference is technically co-sponsored by:
IEEE Bulgaria Section
IEEE Young Professionals Affinity Group of Bulgaria

Тази конференция е технически подпомогната от:
Българска секция на IEEE
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TIME SCHEDULE

РАЗПРЕДЕЛЕНИЕ НА ЗАСЕДАНИЯТА И СЕКЦИИТЕ ПО ЗАЛИ И ВРЕМЕ

26 MAY 2016 27 MAY 2016	Registration from 14:00 till 17:00 Registration from 09:00 till 10:00 The conference will be held at Technical University of Sofia, Plovdiv branch 25, Tsanko Dyustabanov Street Plovdiv 4000, Bulgaria			
26 MAY 2016	19:00-22:00 h	Conference Dinner		
27 MAY 2016	10:00-10:30 h 10:30-10:45 h	Opening of Science Days of TU-Sofia - AULA Opening of TECHSYS 2016 Conference - AULA		
	10:45-12:15 h	Plenary Session - AULA		
	12:15-13:30 h	Lunch Time		
	Session 1			
	13:30-18:30 h	Section 1 Hall 4326	Section 2 Hall 4328	Section 3 Hall 4422
	<i>Coffee Break</i> 14:30-14:45 h 16:30-16:45 h	Section 4 Hall 4327	Section 5 Hall 4425	Section 6 Hall 4324
	Section 7 Hall 4323	Section 8 IEEE Young Professionals Bulgaria Hall 4407		
28 MAY 2016	10:30-11:00 h	Closing Ceremony		

Sections	Секции
1. Automation and Control Systems	1. Автоматика и системи за управление
2. Electrical Engineering and Energetics Electronics; Electronic Technologies and Optoelectronics	2. Електротехника и електроенергетика; Електроника и оптоелектроника
3. Informatics and Computer Systems and Technologies	3. Информатика и компютърни системи и технологии
4. Mechanical Engineering; Mechanical and Instrument Engineering	4. Машиностроителна техника и технологии; Машиностроене и уредостроене
5. Transport and Aviation Engineering	5. Транспортна и авиационна техника
6. Natural Sciences	6. Природни науки
7. Industrial Management	7. Индустиален мениджмънт

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OPENING CEREMONY ACTIVITIES

27 MAY 2016

10:00 - 12:15 h

I. Opening of Science Days of Technical University of Sofia

II. Opening of Fifth International Conference “Engineering, Technologies and Systems” - TechSys 2016

III. Plenary Talks

1. Properties of the Lightweight Nanocrystalline Aluminium Based Material

Lukasz Kaczmarek, PhD, DSc, Prof. TUL

*Vice-dean for Student Affairs, Lodz University of Technology,
Faculty of Mechanical Engineering*

2. Medical Physics and Engineering: 50 Years Progress in Service of Medicine (Imaging Methods and Equipment)

Prof. Slavik D. Tabakov, Dr.h.c., FIPEM, FHEA, FIOMP

King's College London, UK

President of the International Organization for Medical Physics (IOMP)

3. Best practices in training people in field of automation

Rosen Kosturkov

Sales Manager, SMC Industrial Automation Bulgaria

IV. Accompanying event

Introducing the Bulgarian IEEE Young Professionals Affinity Group

Dr. Yancho Todorov
Chair - IEEE YP AG Bulgaria



IEEE

youngprofessionals

SECTION 1
СЕКЦИЯ 1

AUTOMATION AND CONTROL SYSTEMS

27 MAY 2016
13:30 – 18:30

Hall 4326

Chairman: Ivan Ganchev
Secretary: Albena Taneva

First session

1. **Beladel Abdelkader, Kouzou Abdellah, Ahmed Hafaifa, Djilali Mahi**
Dual Matrix Converter Feeding an Open-End Load Based on Modified Direct Transfer Function Approach
2. **Nadji Hadroug, Ahmed Hafaifa, Abdellah Kouzou, Mouloud Guemana, Ahmed Chaibet**
Control of Gas Turbine Output Parameters Based on Multidisciplinary Optimization of Their Operating Variables
3. **Bachir Nail, Abdellah Kouzou, Ahmed Hafaifa, Belkacem Bekhiti**
Stabilizing Linear Multivariable Gas Turbine Model via Sliding Mode Control
4. **Ahmed Hafaifa, Kouzou Abdellah, Guemana Mouloud, Nadji Hadroug**
Reliability Analysis using Weibull Distribution Applied to a Booster Pump Used in Oil Drilling Installations
5. **Mircea Weingart, Dan Popescu, Orest Vascan**
Image Segmentation Techniques for Medical Image Processing Purposes
6. **Georgi Ruzhekov, Teofana Puleva, Tsonio Slavov**
Experimental System for Wind Modelling

Second session

Chairman: Kouzou Abdellah
Secretary: Sevil Ahmed

7. **Krasimir Donchev, Stefan Biliderov**
Development of Controller for Pellet Burner
8. **Dragomir Chantov, Hristina Stoycheva**
Synchronization and Antisynchronization of a New Chaotic System with Specific Nonlinearity
9. **Dragomir Chantov, Hristina Stoycheva**
Design of Chaotic Synchronization Systems with Different Types of Identical and Non-Identical Synchronization on The Basis of a Linear-Nonlinear Decomposition Approach

10. Dimitar Spirov, Georgi Terziyski

Closed-Loop Phase Controlled DC Motor Drive

11. Dimitar Spirov, Nikolay Komitov

DSP Based Induction Motor Drive with Quasi-Resonant Converter

12. Lyudmila Baltova, Vasilka Stancheva

Learning of Students Of Faculty of Automatics and Faculty of Electrical Engineering in Subject „Fundamentals Of Engineering Design“ – Part I

SECTION 2
СЕКЦИЯ 2

**ELECTRICAL ENGINEERING AND ENERGETICS ELECTRONICS;
ELECTRONIC TECHNOLOGIES AND OPTOELECTRONICS**

27 MAY 2016
13:30 – 18:30

Hall 4328

First session

Chairman: Galidia Petrova
Secretary: Nikola Georgiev

1. Kaddouri Ameer Miloud, Kouzou Abdellah, Hafaiha Ahmed

Optimization of Multi-Layer Linear Gradient Index Antireflective Based on Oxynitride Silicon

2. Dimitar Dimitrov, Atanas Iliev, Nevenka Kiteva - Rogleva

Validation of a Model For Generation of Hourly Ambient Temperature Time Series

3. Nikola Georgiev

A Model of a Single-Phase Two-Rotor Axial Generator With Rare Earth Magnets

4. Nikola Georgiev

Calculating Magnetic Induction in The Air Gap of a Three-Phase Two-Rotor Axial Generator with Rare Earth Magnets

5. Srefan Bobev

Algorithms and Principles For Monitoring Selected Automatic System or Parameters

6. Srefan Bobev

Specialized Electronic System for Tracking Other Process, Electronic or Automatic System

Second session

Chairman: Marin Nenchev
Secretary: Margarita Deneva

7. Vanya Plachkova

Fluorescent Spectroscopy Applications in Veterinary Medicine and Healthcare

8. **Svetoslav Ivanov, Yanka Ivanova**
Electronic Converter for Fiber Optic Thermometer
9. **Margarita Deneva**
Nd:YAG Laser in Two-Wavelength Coaxial Architecture
10. **Margarita Deneva, Marin Nenchev, Nadejda Kaymakanova, Ernst Wintner, Mark Himbert**
Light Based Techniques as Possibility to Solve the Pollution Problems in Laser Ignition Combustion of Gaseous Mater. A Pilot Study
11. **Margarita Deneva, Marin Nenchev, Valko Kazakov, Nadejda Kaymakanova**
Development of the Thermo-Sensitive Paper Application as Method for Laser Beam Spot Study
12. **Petar Mitsev, Angel Tanev, Tsvetelina Lazarova**
Performance Sensing Solutions for a Green Environment Designed in Bulgaria
13. **Sevdalina Manolova, Stanimir Stojnov, Ivanka Mitova, Angelina Mikova, Petra Alexandrova, Georgi Stoimenov**
Energy Characteristics of Cabbage with Added Biochar
14. **Alexander Angelov**
Special Features Design of Facade/Roof PV Plant

SECTION 3
СЕКЦИЯ 3

INFORMATICS AND COMPUTER SYSTEMS AND TECHNOLOGIES

27 MAY 2016
13:30 – 18:30

Hall 4422

Chairman: Grisha Spasov
Secretary: Dobrinka Petrova

1. **Veneta Aleksieva, Ivaylo Zhelyazkov**
Generator of Network DoS Attacks
2. **Simeon Tsvetanov**
Developing of a Libcloud Driver for OwnCloud
3. **Ivan Kanev, Petya Pavlova, Dimitre Kromichev, Jordan Genoff**
Generating 2D Gaussian Kernels for the Purpose of Studying FPGA-Based Linear Spatial Filters
4. **Lubomir Bogdanov**
Look-Up Table-Based Microprocessor Energy Model
5. **Dobrinka Petrova**
Big Data in Bioinformatics
6. **Tarik Yerlikaya, Şenol Şen**
DDoS Attacks as the Cyber-Warfare Tools
7. **Yasin Akman**
Implementation and Encryption Time Measurement of Skipjack

8. **Hristo Valchanov**
Communication System for LAN Searching
9. **Dimitre Kromichev**
Canny Edge Detection: A Survey
10. **Dimitre Kromichev**
Technology of Computations in Canny Edge Detection for FPGA Implementation
11. **Dimitar Garnevski**
Estimating Impact of Image Parameters on Method for Tracking And Mapping a Motion in Solar Corona
12. **Dimitar Garnevski**
Parallel Implementation of Anisotropic Diffusion
13. **Marin Marinov, Lora Marinova**
Hamming Code and Excel Application for Generation and Encode
14. **Dilyana Budakova, Rumen Trifonov, Nikola Tsaikin**
Generalized Net Model for Cooperative Behavior Investigation Between Intelligent Virtual Agents
15. **Nikola Tsaikin, Dilyana Budakova**
Modelling And Analysis of Social Behavior with Intelligent Virtual Agents with Cognitive Architectures
16. **Svetlana Vasileva, Delyan Vasilev**
Some Approaches to integration Simulation Modeling in Education

SECTION 4
СЕКЦИЯ 4

MECHANICAL ENGINEERING; MECHANICAL AND INSTRUMENT ENGINEERING

27 MAY 2016
13:30 – 18:30

Hall 4327

Chairman: Teofil Iamboliev
Secretary: Dechko Rushev

Invited paper:

Witold Pawlowski and Jakub Sikorski - Lodz Univ. of Technology, Poland
Space applications of the lightweight gradient materials based on nc-Al alloys

1. **Nikolay Petkov, Totka Bakalova, Tetiana Cholakova, Lukáš Voleský, Petr Louda**
Mechanical and Tribological Properties of AlN Hard Films Deposited by Reactive Magnetron Sputtering
2. **Nikolay Petkov, Totka Bakalova**
Deposition of AlCN Thin Films by Reactive DC Magnetron Sputtering and Tribology
3. **Viktor Kopanov, Stanislava Rabadzhiyska**
Development of Specialized Holders for Bearing Balls and Rollers Coating by PVD Methods

4. **Dimitar Petrov, Petko Dobrev, Stanislav Alexiev**
Experimental Comparison of Wear Resistance and Cyclic Loading to Bending Between Cycloid and Involute Gears
5. **Cenk Misirli, Mehmet Ceviz**
Investigation of the Effects of Cutting Tool, Cutting Speed and Material Type on Surface Roughness
6. **Cem Misirli, Cenk Misirli**
5083 Aluminum Heat Treatment
7. **Lyubomir Lazov, Hristina Deneva**
Influence Pressure of Assisted Gas on Laser Cutting Process by Melting
8. **Ilia Popov, Pepo Yordanov, Sabi Sabev**
Experimental Determining of The Elasticity Module of Polymer Concrete Composites
9. **Trayan Stamov**
Combining of Basic Shapes in Design
10. **Zhivko Iliev, Georgi Dinev**
Improving the Maintenance of Drive Sheave of Hanging Ropeway
11. **Victor Rizov**
Longitudinal Fracture Analysis of Multilayered Beams Loaded in Torion
12. **Victor Rizov**
Longitudinal Fracture Analysis of a Multilayered Beam with Non-Linear Material Behavior
13. **Asen Vergov, Georgi Uchkunov**
Kinematic Analysis of Lever-Gear Movement Convertor
14. **Yordan Kirov, Georgi Uchkunov**
Experimental Study of Pieces of Paper Used in Production of Corrugated Cardboard (Corrugated Layer)
15. **Zdravko Vitlarov**
Methods of Synthesis of Mechanisms of Electro Mechanical Press For Expanded Metal
16. **Angel Lengerov, Dechko Rushev, Stiliyana Taneva, Georgy Levicharov**
Mathematical Model of Optical Glass Cutting by Applying Vibrating Impact
17. **Georgy Levicharov**
Study the Influence of Spherical Motion Burnishing Process on the Energy Balance of the System „Tool - Work-Piece“
18. **Rumen Mitev**
Approach for 3D Modeling a Spiral Bevel Gear
19. **Rumen Mitev**
Process in Cut 3D Models

SECTION 5
СЕКЦИЯ 5

TRANSPORT AND AVIATION ENGINEERING

27 MAY 2016
13:30 – 18:30

Hall 4425

Chairman: Dobrin Seyzinski
Secretary: Hristian Panayotov

1. **Konstantin Metodiev**
Accident Modelling of a Quadcopter
2. **Krasimir Ambarev**
An Experimental Study of The Influence of Advance Processor on Some Operating Performance Indicators of Spark Ignition Engine Working with LPG
3. **Radoslav Kostov**
Gas Exchange Process in Petrol Engine Turbocharged
4. **Nikolay Gueorguiev, Aleksandar Kolarov**
Trends in the Development of Naval Mine Countermeasures Systems
5. **Nikolay Gueorguiev, Aleksandar Kolarov**
Method of Enhancing Anti-Mining Resistance to Bottom Mines
6. **Ilko Tarpov**
Highlights in The Training for Optimal Control of Electrical Railway Smooth Variable Traction

SECTION 6
СЕКЦИЯ 6

NATURAL SCIENCES

27 MAY 2016
13:30 – 18:30

Hall 4324

Chairman: Sonia Tabakova
Secretary: Valentina Proicheva

1. **Atanaska Georgieva, Albena Pavlova**
Lp (K) - Solution of Nonlinear Volterra-Hammerstein Integral Equations
2. **Ivan Badev, Georgi Zlatanov**
Odd-Dimensional Spaces with Symmetric Affine Connection
3. **Ivan Badev, Marta Teofilova, Georgi Zlatanov**
Cartesian Generalized Compositions in Spaces with a Symmetric Affine Connection

4. **Delyana Dimova**
An Algorithm for Determining and Comparing the Levels of Economic Development in the Districts in Bulgaria
5. **Iliycho Iliev**
Parametric Regression Models for CuBr Laser
6. **Liliya Petrova**
Rectangular Plates in Single Trigonometric Series with Symmetry
7. **Kiril Kolikov**
Magnetic Moment and Velocities of Self-Rotation in Toroidal Model of the Neutron
8. **Ivan Stoyanov**
Physics and Production

SECTION 7
СЕКЦИЯ 7

INDUSTRIAL MANAGEMENT

27 MAY 2016
13:30 – 18:30

Hall 4323
Chairman: Toni Mihova
Secretary: Desislava Shatarova

1. **Toni Mihova, Valentina Nikolova - Alexieva**
Principles and instruments of LEAN Methodology
2. **Mina Angelova**
Management of the Motivation Process in Enterprises
3. **Thomas Moser**
Causes, Prevention and Correction of Project Failures and Budget Overruns
4. **Thomas Moser**
Hands-On Experience and Strategic Implications
5. **Antonia Lazarova**
Integrated Use of Statistical Approaches for Evaluation the Business Environment Based Data Questionnaire Survey
6. **Nikolay Patonov, Ardian Durmishi**
Formation of a Modern Tax System in the Republic of Albania

7. **Ivanka Bankova**
Potentials for the Development of Transport infrastructure of Bulgaria in the Context of Sustainable Development
8. **Svetoslav Dimkow, Otman Ahmed**
Assessing the Effectiveness of Collaboration in Business Networks
9. **Svetoslav Dimkow**
Development of Business Organizations Through Collaborative innovations
10. **Svetlana Borisova**
Opportunities and Problems in the Assessment of Labour Achievements

SECTION 8
СЕКЦИЯ 8

IEEE Young Professionals Bulgaria
Seminar "YP Talks 2"

27 MAY 2016
13:30 – 18:30

Hall 4407
Chairman: Yancho Todorov
Secretary: Margarita Terziyska

1. **Sevil Ahmed**
Neural net tracking control of a mobile platform in robotized wireless sensor networks
2. **Gergana Lazarova**
Semi-supervised machine learning
3. **Margarita Terziyska**
Reduced rule-base fuzzy-neural networks
4. **Angel Marchev**
System analysis for autonomous control of investment portfolios
5. **Nina Dobrinkova**
ICT Technologies in wildland fire modelling
6. **Vladimir Kanchev**
Importance and challenges of reproducible research
7. **Vasia Atanasova**
Wikipedia in education and science - whether, when and how?



televic

Providers of reliable interaction



Sensata
Technologies



ZOBELE
GROUP

LIEBHERR



SOCIETE GENERALE
ЕКСПРЕСБАНК

PROX 2
we make metal work

ASIC
DEPOT

EVN
bulgaria

Schneider
Electric



Lufthansa Technik
Sofia

More mobility for the world

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