International conference on Applied Sciences



Organized by:

University Politehnica Timisoara



and

University of Banja Luka



in cooperation with

Academy of Romanian Scientists
Academy of Sciences Republic of Srpska
Academy of Technical Sciences of Romania - Timisoara Branch
and

General Association of Romanian Engineers - Hunedoara Branch

May 10-12, 2017 Hunedoara, ROMANIA





University of Banja Luka

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- IUS 2017 -International conference on Applied Sciences





Hunedoara, Romania, May 10-12, 2017 http://www.fih.upt.ro/v4/ICAS2017/index.htm

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International conference on Applied Sciences

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	May 10, 2017
15:00-20:00	Registration of participants
20:00-24:00	Welcome Dinner
	May 11, 2017
8:00-9:00	Registration of participants (Faculty of Engineering)
9:00-9:30	OPENING CEREMONY (Room Aula Magna) Chairman: Ludovic Dan LEMLE
	Members of Presidium:
	Mile VASIC Ambassador of Bosnia and Herzegovina in Romania
	Predrag DAMJANOVIC Director of Pedagogical Institute of the Republic of Srpska
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	President of the Hunedoara County Council
	Ion Doru PETRESCU C.E.O. ArcelorMittal S. A.
	Yang XI
	S. C. Eurosport DHS S. A.

9:30-9:45	Group Photo
9:45-10:00	Coffee Break
	May 11, 2017
10:00-13:00	PLENARY SESSION (Room Aula Magna) Chairmen: Tihomir LATINOVIC and Imre KISS
10:00-10:30	Mohsen RAZZAGHI Mississippi State University
10:30-11:00	Miroslav PRSA University of Novi Sad
11:00-11:30	Bogdan LUNGU Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering
11:30-12:00	Mircea Octavian POPOVICIU Academy of Romanian Scientists
12:00-12:30	Ioan ILCA Academy of Technical Sciences of Romania
12:30-14:00	Lunch
14:00-17:00	PARALLEL SESSIONS
17:00-17:15	Coffee Break
17:15-20:00	PARALLEL SESSIONS

14:00-20:00	MECHATRONICS Session (Room F1-10) Chairmen: Ilare BORDEA Ş U and Miroslav ROGIC
	Title: Instantaneous flywheel torque of IC engine grey-box identification Authors: A Milašinović, D Knežević, Z Milovanović and J Škundrić Speaker: A Milašinović
	Title: 3C-SiC: A promising material for GHz resonators in out-of-plane resonance mode Authors: M Zarog Speaker: M Zarog
	Title: Analysis of time in establishing synchronization radio communication system with an expanded spectrum conditions for communication with mobile robots Authors: T S Latinovic, S B Kalabic, C Barz, P P Pop and A Pop-Vădean Speaker: T S Latinovic
	Title: Appreciations regarding use of the Rz roughness parameters in evaluating materials behavior to cavitation erosion Authors: I Bordeasu, M O Popoviciu, C Gherea, L M Micu and L D Pirvulescu Speaker: I Bordeasu
	Title: Generate stepper motor linear speed profile in real time Authors: M Stoychitch Speaker: M Stoychitch
	Title: Finite element method analysis of the speed reducer housings Authors: I Zs Miklos, C C Miklos, C I Alic and S Rațiu Speaker: I Zs Miklos
	Title: Comparative study of oxihydrogen injection in turbocharged compression ignition engines Authors: L Barna and D Lelea Speaker: L Barna
	Title: Research on integration in mechatronics natural patterns using transdisciplinary approaches Authors: P P Pop, A L Pop-Vădean, C Barz, T Latinovic and A Pintescu Speaker: P P Pop
	Title: Three different types of induction vibration energy devices and their applications Authors: A L Pop-Vădean, P P Pop, C Barz, T Latinovic and A Pintescu Speaker: A L Pop-Vădean
	Title: Particular mechanism for continuously varying the compression ratio for an internal combustion engine Authors: S Rațiu, R Cătălinoiu, V Alexa, I Zs Miklos and V Cioată Speaker: S Rațiu
	Title: Minimal algorithm for running an internal combustion engine Authors: V Stoica, A Borborean, A Ciocan and C Manciu Speaker: V Stoica
	Title: Test bench for common rail injection system behavior analysis Authors: R Maruta and V Stoica Speaker: V Stoica
	Title: Experimental test bench for ICE management algorithm testing Authors: A Borborean, A Ciocan and V Stoica Speaker: A Borborean
17:00-17:15	Coffee Break

Title: An evolutionary sensor approach for self-organizing production chains Authors: E V Gillich, M Mocan, I C Mituletu and G R Gillich Speaker: G R Gillich
Title: Decoupling the structure from the ground motion during earthquakes by employing friction pendulums
Authors: G R Gillich, V Iancu, N Gillich, C P Chioncel and C Hatiegan Speaker: G R Gillich
Title: The behaviour of a vehicle's suspension system on dynamic testing conditions Authors: L Mihon, N Lontis and S Deac Speaker: L Mihon
Title: Powertrain simulation for a hybrid/electric small car Authors: L Mihon, N Lontis and S Deac Speaker: L Mihon
Title: Determination of transverse critical speeds of a rotor by vibroacustical signal analysis Authors: I Crâstiu, D Simoiu and L Bereteu Speaker: I Crâstiu
Title: Modeling and simulation of a vehicle in frontal collision Authors: S Deac, A Perescu and L Bereteu Speaker: S Deac
Title: Innovation-Prototype. Making hydraulic and/or pneumatic plates using 3D printing technology Authors: V Alexa, S Rațiu, I Kiss, V Cioată and M Rackov Speaker: V Alexa
Title: Social Humanoid Robot SARA: Development of the wrist mechanism Authors: M Penčić, M Rackov, M Čavić, I Kiss and V Cioata Speaker: M Penčić
Title: Analysis of whole-body vibration on rheological models for tissues Authors: A Neamţu-Popescu, Gh Draganescu and L Bereteu Speaker: A Neamţu-Popescu
Title: Determination of some mechanical characteristics of surface coatings from analysis of signals obtained by impulse excitation Authors: E Nyaguly, D Simoiu, Gh Drăgănescu and L Bereteu Speaker: E Nyaguly
Title: Study of the influence of the cutting temperature on the magnitude of the contact forces in the machining device Authors: V G Cioată, I Kiss, V Alexa, S Rațiu and M Rackov Speaker: V G Cioata
Title: Adjustment of gripping force by optical systems Authors: C K Jalba and C Barz Speaker: K Jalba





14:00-20:00

MATERIALS SCIENCE Session (Room Fl-8) Chairmen: Erika ARDELEAN and Dragana JOVANOVIC

Title: XAFS study of YxSml-xBO3 o Authors: O M Ozkendir, H Gundogmus and G Speaker: O M Ozkendir	C Saiyasombat
Title: Crystal and electronic structure of the Sm: Author: O M Ozkendir Speaker: O M Ozkendir	
Title: Security of bottle when charging on high Authors: M Todic, T Latinovic, V Golubovic-Bugars Speaker: M Todic	ki and A Majstorovic
Title: Evaluation of green living walls and their part in s Authors: D Dimitrijević, P Živković , M Tomić , M Dol Speaker: P Živković	
Title: Study of materials used for the thermal protection internal combustion engines Authors: C Birtok-Băneasă, S Rațiu, V Puțar Speaker: C Birtok-Băneasă	ŕ
Title: Mathematical and physical modeling of thermal stratifica Authors: V Putan, L Vîlceanu, A Socalici a Speaker: V Putan	nd A Putan
Title: Aspects regarding manufacturing technologies of for brake pad application Authors: A L Craciun, T Hepuṭ and C Pinc Speaker: A L Craciun	-
Title: Methods of silver recovery from radiographs - Authors: LR Canda, E Ardelean and T Speaker: LR Canda	Нериț
Title: Research regarding the vacuuming of liquid ste Authors: M Magaon, M Radu, S Serban and Speaker: M Magaon	
Title: Critical analysis of the influence of the possibilities of estab on obtaining the castings Authors: A Josan, C Pinca-Bretotean and Speaker: A Josan	0 0
Title: Research on the improvement of the physical and mech for conical gearing through nitrocarbu Author: G Mihut Speaker: G Mihut	
Title: Surface treatments for aluminum Authors: M Ardelean, S Lascau, E Ardelean Speaker: M Ardelean	

17:00-17:15 Coffee Break

Title: Contributions to optimization of storage and transporting industrial goods Authors: T Babanatsas, R Babanatis-Merce, D O Glavan and A Glavan Speaker: T Babanatsas
Title: Modelling in 3D the olive trees cultures in order to establish the forces (interval) needed for automatic harvesting Authors: T Babanatsas, D O Glavan, R Babanatis-Merce and S A Maris
Speaker: T Babanatsas Title: Comparative study of tool machinery sliding systems. Comparison between plane or cylindrical basic shapes
Authors: D O Glavan, T Babanatsas and R Babanatis-Merce Speaker: D O Glavan
Title: Study on influence of supplying compressed air channels and evicting channels on pneumatical oscilation system for vibromooshing Authors: D O Glavan, I Radu, T Babanatsas and R Babanatis-Merce Speaker: D O Glavan
Title: Statistical experiments using the multiple regression research for prediction of proper hardness in areas of phosphorus cast-iron brake shoes manufacturing Authors: I Kiss, V G Cioată, S A Ratiu, M Rackov and M Penčić Speaker: I Kiss
Title: Statistical research using the multiple regression analysis in areas of the cast hipereutectoid steel rolls manufacturing Authors: I Kiss, V Alexa, S Serban, M Rackov and M Čavić
Speaker: I Kiss Title: Directions for material recovery of used tires and their use in the production of new products intended for the industry of civil construction and pavements Authors: C Bulei, M P Todor, T Heput and I Kiss Speaker: C Bulei
Title: Researches on the development of new composite materials complete / partially biodegradable using natural textile fibers of new vegetable origin and those recovered from textile waste Authors: M P Todor, C Bulei, T Heput and I Kiss Speaker: M P Todor
Title: The rainfall-runoff modeling using a conceptual model Author: C Badaluta-Minda Speaker: C Badaluta-Minda





14:00-20:00

ELECTRICAL ENGINEERING Session (Room FI-1) Chairmen: Branko BLANUSA and Gabriel POPA

Title: Hydroelectric Power Plant with variable flow on drinking water adduction Authors: S I Deaconu, R Babău, G N Popa and P L Gherman Speaker: S I Deaconu
Title: Highlighting the harmonic regime generated by electric locomotives equipped with DC motors Authors: I Baciu and C D Cuntan Speaker: C D Cuntan
Title: Determination of the wind power systems load to achieve operation in the maximum energy area Authors: C P Chioncel, E Spunei, C V Anghel-Drugarin and O G Tirian Speaker: C V Anghel-Drugarin
Title: Performances' optimization of an axial flux synchronous machine for electrical traction system Authors: I Mandru, S Deaconu, M Topor, I Nuca and M Burduniuc Speaker: I Mandru
Title: Electrical engineering related to high voltage Author: O Olawale Speaker: O Olawale
Title: Power quality analysis of DC arc furnace operation using the Bowman model for electric arc Authors: P L Gherman Speaker: P L Gherman
Title: A few categories of electromagnetic field problems treated through fuzzy logic Authors: M Lolea, S Dziţac and Gh Ias Speaker: M Lolea
Title: Calculation methods and spatial distribution assessment of the parameters of electric and magnetic field generated by power networks Authors: M Lolea, S Dziţac and A Minda
Speaker: M Lolea Title: Study regarding the influence of environmental temperature and irradiation conditions on the performance of a photovoltaic solar module
Authors: C Hațiegan, N Gillich, C Popescu, E Răduca, L Hațiegan and C P Chioncel Speaker: C Hatiegan
Title: Methods for maintaining the continuity of power supply in hospitals Authors: V V Mihuţ, M Pănoiu, C Pănoiu and I Baciu Speaker: V V Mihut
Title: Simulation of internal control services in the 220/110 kV substation Mintia Authors: D Ciulica and R Rob Speaker: D Ciulica
Title: Optimizing the switching time for 400 kV SF6 circuit breakers Authors: D Ciulica, M Panoiu and C Panoiu Speaker: D Ciulica
Title: Power factor improvement in three-phase networks with unbalanced inductive loads using the Roederstein ESTAmat RPR varmetric regulator Authors: C M Dinis, C D Cunțan, R O S Rob and G N Popa Speaker: C M Dinis
Title: Automation of water supply and recirculation-filtration of water at a swimming pool using Zelio PLC Authors: C M Diniș, G N Popa and A Iagăr
Speaker: C M Dinis

17:00-17:15	Coffee Break
	Title: Time series prediction in the case of nonlinear loads by using Adaline and NAR neural networks Authors: L Ghiormez, M Panoiu, C Panoiu and O Tirian Speaker: L Ghiormez
	Title: Study of a phase-to-ground fault on a 400 kV overhead transmission line Authors: A Iagăr, G N Popa and C M Diniș Speaker: A Iagar
	Title: Experimental model of a wind energy conversion system Authors: C Vasar, C L Rat and O Prostean Speaker: C L Rat
	Title: Hardware-in-the-Loop emulator for a hydrokinetic turbine Authors: C L Rat, I Filip and O Prostean Speaker: C L Rat
	Title: Out-of-equilibrium body potential measurements in Pseudo-MOSFET for Biosensing Authors: L Benea, M Bawedin, C Delacour, S Cristoloveanu and I Ionica Speaker: L Benea
	Title : The comfort of the passengers Authors : R Hasa, T Liedl and J Bucha Speaker : R Hasa
	Title: Vrška Čuka wind energy potentials Authors: P Živković, M Tomić, D Dimitrijević and M Dobrnjać Speaker: P Živković
	Title: Issues regarding the usage of MPPT techniques in micro grid systems Authors: I Szeidert and I Filip Speaker: I Szeidert
	Title: Issues regarding modelling and control of a double winded induction generator Authors: I Szeidert and C Vasar Speaker: I Szeidert
	Title: Modeling and prediction of the pantograph – catenary distance variation in railway transportation Authors: M Panoiu, S Rusu Anghel, R Rob Speaker: M Panoiu
	Title: Electromechanical converters for electric vehicles Authors: T Ambros, M Burduniuc, S I Deaconu and N Rujanschi Speaker: T Ambros
	Title: Electric axial magnetic flux machines Authors: I Nuca, T Ambros, M Burduniuc, S I Deaconu and A Turcanu Speaker: I Nuca
	Title: Bidirectional automatic release of reserve for low voltage network made with low capacity PLCs Authors: I Popa, G N Popa, C M Diniș and S I Deaconu Speaker: G N Popa
	Title: Industrial application of low voltage bidirectional automatic release of reserve Authors: G N Popa, C M Diniș, A Iagăr, S I Deaconu and I Popa Speaker: G N Popa

Conference Dinner

20:00-24:00

14:00-20:00

COMPUTERS ENGINEERING Session (Room F1-2) Chairmen: Ratko DEJANOVIC and Manuela PĂNOIU

Title: The control application with eye blink fatigue due to the android device Authors: M Habonimana, M H Birashakwa, D Niyonkuru, H Djohari and V Kabaza
Speaker: M H Birashakwa
Title: Anthropometric parameters problem solving of shoe lasts by deforming membranes
with medium weight
Authors: A V Albu and C V Anghel Drugarin
Speaker: C V Anghel-Drugarin
Title: Practical application in spectral analysis, combining Labview
and Open Source Software
Authors: C P Chioncel and C V Anghel Drugarin
Speaker: C V Anghel-Drugarin
Title: Using TELOS for the planning of the information system audit
Authors: D Drljača and B Latinović
Speaker: D Drljača
Title: Gamification in the context of a smart city
Authors: M Zica, A Ionica, M Leba and C Rus
Speaker: A Ionica
Title: Driver monitoring system for automotive safety
Authors: A Lorincz, M Risteiu, A Ionica and M Leba
 Speaker: A Ionica
Title: Quadcopter control using a BCI Authors: S Rosca, Monica Leba, A Ionica and O Gamulescu
Speaker: M Leba
Title: A small step in VLC systems – A big step in LiFi implementation
Authors: S Riurean, A A Nagy, M Leba and A Ionica
Speaker: M Leba
Title: System for ontology alignment for the Semantic Sensor Web which uses
fuzzy logic techniques
Authors: A Pintescu, A L Pop-Vădean and P P Pop
Speaker: A Pintescu
Title: Cooling water flow control realized with systems based on fuzzy mechanism
Authors: G O Tirian, C A Gheorghiu, T Heput and C P Chioncel
 Speaker: C A Gheorghiu
Title: The influence of cooling parameters on the speed of steel casting
Authors: G O Tirian, C A Gheorghiu, T Heput and C P Chioncel
 Speaker: C A Gheorghiu Title: Controlling and manitoring a relatio arm through was interface.
Title: Controlling and monitoring a robotic arm through web interface
Authors: C Barz, K Jalba, T Latinovic, D Preradović, S Epple and A Pop-Vadean Speaker: C Barz
Opeaner. C Dat2

17:00-17:15 Coffee Break

Title: Wind turbine remote control using Android devices Authors: C L Rat and M Panoiu Speaker: C L Rat
Title: IPS technologies in sales improvement in companies in Banja Luka, Bosnia and Herzegovina Authors: L Micic and D Preradovic Speaker: D Preradovic
Title: A comparison between using distance sensors for measuring the pantograph vertically movement Authors: R Rob, C Panoiu, S. Rusu-Anghel and M Panoiu Speaker: C Panoiu
Title: Information system for automatic diagnosis of the railway contact line Authors: I Muscalagiu, C Abrudean, D M Muscalagiu and S Rusu-Anghel Speaker: I Muscalagiu
Title: A strong background in computer technology Authors: O D Obanegha Speaker: O D Obanegha



14:00-20:00 FUNDAN

FUNDAMENTAL SCIENCES Session (Room F0-1) Chairmen: Diana BISTRIAN and Daniel ROMANO

Title: Arguments for the need of mining education continuity and development in Romania
Authors: I Bud, S Duma, I Pasca and D Gusat
Speaker: S Duma
Title: Natural frequencies of thin rectangular plates clamped on contour using the finite element method
Authors: L Hatiegan, C Haţiegan, G R Gillich, C O Hamat, O Vasile and L Nedeloni
Speaker: C Hatiegan
Title: Possibility of using the smooth spline functions in approximation of average course of terrain
inclinations caused by underground mining exploitation conducted at medium depth
Author: J Orwat
Speaker: J Orwat
Title: Evaluation of application possibilities of smooth splines to designation of the average values of
terrain curvatures measured after the termination of hard coal exploitation conducted at medium depth
Author: J Orwat
Speaker: J Orwat
Title: General aspects of speed multipliers
Authors: A Bara, D Nedelcu, C Haţiegan, L Haţiegan and L Nedeloni Speaker: A Bara
Title: Experimental measurements concerning the stator insulation partial discharge level of a hydrogenerator of high power
Authors: C Haţiegan, A Bara, E Răduca, M R Jurcul, D Nedelcu and D A Pârşan
Speaker: A Bara
Title: The numerical modeling of mixing phenomena of nanofluids in passive micromixers
Authors: R Milotin and D Lelea
Speaker: R Milotin
Title: Determination of the unsulfonate color concentration in D&C Yellow No. 10 by the derivative
spectrophotometry
Author: S Jitian
Speaker: S Jitian
Title: Determination of Maintainability for Dacia 1304, 1,9D utility vehicle
Authors: A Budiul-Berghian, T Vasiu and C Birtok Baneasa
Speaker: A Budiul-Berghian
Title: Study and model on economic application for cluster management within
the North-West region of Romania
Authors: D Stoicovici, M Ungureanu, I Craciun and A Berdie
Speaker: D Stoicovici
Title: Order management empowering entrepreneurial partnerships in the context of new technologies
Authors: M Tămășilă, G Proștean and A Diaconescu
Speaker: A Diaconescu
Title: Prevention of mobbing
Author: V Rodic
Speaker: V Rodic

17:00-17:15 Coffee Break

Title: Neuromarketing: a tool for student selection by universities Author: M C Benea Speaker: M C Benea
Title: The influence of the soil type on the reduction of pollution Author: M L Benea Speaker: M L Benea
Title: Creating long-term relationship with consumers based on marketing promotion Authors: S Milutinović and N Vojvodić Speaker: N Vojvodić
Title: Salvia officinalis used in pharmaceutics Authors: K L Lemle Speaker: K L Lemle
Title: Highly-efficient reduced order modelling techniques for shallow water problems Authors: D A Bistrian and I M Navon Speaker: D A Bistrian
Title: Determination of the performance of the Kaplan hydraulic turbines through simplified procedure Authors: I Pădureanu, M R Jurcu, V C Câmpian and C Haţiegan Speaker: I Pădureanu
Title: Unbalance influence on the rotating assembly dynamics of a hydro Authors: I Pădureanu, M R Jurcu, V C Câmpian and C Hațiegan Speaker: I Pădureanu



May 12, 2017

9:00-11:00	VIDEO-CONFERENCE Session (Room F0-1) Chairmen: Goran SIKANIC and Ionel MUSCALAGIU
	Title: Diagnosis diagrams for passing signals on an automatic block signaling railway section Authors: E Spunei, I Piroi, C P Chioncel and F Piroi Speaker: E Spunei
	Title: Truck circuits diagnosis for railway lines equipped with an automatic block signalling system Authors: E Spunei, I Piroi, C Muscai, E Răduca and F Piroi Speaker: E Spunei
	Title: Detecting road irregularities by image enhancements and thresholding Authors: S Ivascu, I R Stanciu and R Vasiu Speaker: S Ivascu
	Title: The importance of correct specification of tribological parameters in dynamical systems modelling Authors: S Alaci, F C Ciornei, I C Românu and M C Ciornei Speaker: I C Romanu
	Title: Identification of exponent from load-deformation relation for soft materials from impact tests Authors: F C Ciornei, S Alaci, I C Românu, M C Ciornei and G Sopon Speaker: I C Romanu
	Title: A comparative study of the A* heuristic search algorithm used to solve efficiently a puzzle game Authors: A E Iordan Speaker: A E Iordan
	Title: An efficient algorithm used to determine the intersection area of three circles Authors: A E Iordan Speaker: A E Iordan
	Title: Aspects regarding the capitalization of the powdery wastes in steelmaking Authors: E C Dragna, A Ioana and N Constantin Speaker: E C Dragna
	Title: Methods of steel manufacturing - The electric arc furnace Authors: E C Dragna, A Ioana and N Constantin Speaker: E C Dragna
	Title: Maintenance of reference standards in the field of viscosity Authors: E A Moșulică, I Cîrneanu, N Constantin and V Rucai Speaker: E A Mosulica
	Title: Steel refining possibilities in LF Authors: M G Dumitru, A Ioana, N Constantin, F Ciobanu and M Pollifroni Speaker: M G Dumitru
	Title: Studies and technological processes of developing a light weight delivery fuel tank form advanced composites materials for helicopters Authors: I A Burlacu, C Puşcaşu and D O Dumitrașcu
	Speaker: I A Burlacu Title: The interbelic Germans from the Banat Highland. Coal, steel, mines and forges Authors: C Rudolf and D Micliuc
	Speaker: C Rudolf Title: Industrial production of the interbelic German from the Banat Highland Authors: C Rudolf and C Hatiegan
	Speaker: C Rudolf Title: Landscaping solutions used for noise isolation Authors: D M Micliuc and G R Gillich Speaker: D M Micliuc

11:00 End of the Session

May 12, 2017

11:00-15:00

Excursion & Visits to:

CORVIN CASTLE Hunedoara: The medieval fortress of Hunedoara and the most spectacular Gothic-style castle in Romania

This architectural monument dating from the fourteenth century is representative of medieval Gothic art in Europe. The uniqueness of the monument lies in Hunedoara high degree of representativeness for military architecture in South-Eastern Europe of the fifteenth century, he developed the elements that transform the castle of Hunedoara in a singular case, subsequent interventions are fifteenth century (construction of the seventeenth century, the restoration of the end of the nineteenth century and early twentieth century), which offers visitor a unique mixture of architectural elements belonging to the Renaissance, Baroque and Gothic styles.

SC EUROSPORT DHS SA Deva: The manufacturer and distributor of bicycles

Specialized in both OEM and its own trademarks, the company produces a large variety of models to meet from the most basic needs of the casual bicycle rider or commuter to the specific high demands of semi-professionals. The company's continuing efforts managed to substantially re-popularize cycling in Romania, involving schools, media and government authorities to enrol in developing safety programs and free bicycle renting programs in major cities.

15:00 Lunch

18:00 End of the Conference



International conference on Applied Sciences



INTERNATIONAL CONFERENCE on APPLIED SCIENCE – ICAS 2017 –

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