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**Society of Engineering &
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CONFERENCE PROCEEDINGS

BOOK OF ABSTRACTS ECBA-2018

**International Conference on
“Engineering & Technology, Computer, Basic and Applied
Sciences”
(ECBA-2018), Athens, Greece**



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Book of Abstracts Proceeding

**International Conference on
“Engineering & Technology, Computer, Basic and Applied
Sciences”
(ECBA-2018)
Athens, Greece**

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**International Conference on
“Engineering & Technology, Computer, Basic and
Applied Sciences”
Athens, Greece
Venue: Titania Hotel Panepistimiou 52, Athens 10678
– Greece**

ORGANIZING COMMITTEE

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CONFERENCE CHAIR MESSAGE

Dr. Malika Ait Nasser

International Conference on “Engineering & Technology, Computer, Basic & Applied Sciences” serves as platform that aims to help the scholarly community across nations to explore the critical role of multidisciplinary innovations for sustainability and growth of human societies. This conference provides opportunity to the academicians, practitioners, scientists, and scholars from across various disciplines to discuss avenues for interdisciplinary innovations and identify effective ways to address the challenges faced by our societies globally. The research ideas and studies that we received for this conference are very promising, unique, and impactful. I believe these studies have the potential to address key challenges in various sub-domains of social sciences and applied sciences.

I am really thankful to our honorable scientific and review committee for spending much of their time in reviewing the papers for this event. I am also thankful to all the participants for being here with us to create an environment of knowledge sharing and learning. We the scholars of this world belong to the elite educated class of this society and we owe a lot to return back to this society. Let's break all the discriminating barriers and get free from all minor affiliations. Let's contribute even a little or single step for betterment of society and welfare of humanity to bring prosperity, peace and harmony in this world. Stay blessed.

Thank you.

Dr. Malika Ait Nasser

Conference Chair

Email: chair2018@academicfora.com

ECBA-2018



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Conference Program
DAY 01 Saturday (November 24, 2018)
Venue: Titania Hotel Panepistimiou 52, Athens 10678 – Greece

09:00 am – 09:30 am	Registration & Kit Distribution
09:30 am – 09:40 am	Introduction of Participants
09:40 am – 09:50 am	Inauguration and Opening address
09:50 am – 10:00 am	Grand Networking Session

Tea/Coffee Break (10:00 - 10:30 am)

DAY 01 Saturday (November 24, 2018)
Session I (10:30 am – 01:00 pm)
Track A: Business, Management & Economics Studies

11-IMES-101	How Inclusive Innovations are Inclusive? Exploring Grassroots Innovations in India	Anjali Lakum
ISSA-NOV-102	Online Learning Behavior Intentions – Understanding of Quality of Service toward user satisfaction, involvement, and perceived value	Firas Habbal
ISSA-NOV-104	The effects of a Peer Network Intervention on the social skills of high-functional adolescents with ASD	Stamatina Kalyveza
ISSA-NOV-105	Are Georgian Teenagers Satisfied with their Body Image?	Magda Rukhadze
ISSA-NOV-108	Influence of Awareness about Industry 4.0 on SMEs Approach to Human Resources Management	Jaroslav Vrchota

Track B: Medical, Medicines & Health Sciences

ATH-4118-101M	Frequency Of Musculoskeletal Pain Among The Students Of Vocational School Of Health Services In Adana	Emir Ibrahim ISIK
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Track C: Engineering & Applied Sciences

11-ORMR-101	The Research of Direct Mineralization Process of Titanium-Magnesium Production Industrial Wastes	Assoc. Prof. Natalya Kulenova
11-ORMR-102	Optimization of Energy Consumption and Emissions of Greenhouse Gases at Lead-Smelting Production	Viktor SHUMSKIY
11-ORMR-103	Research of Iron Oxidation Process in Sulphate Zink Solutions by Pyrolusite	Zhanar Onalbayeva

Lunch Break & Ending Note (01:00 pm - 02:00 pm)

List of Conference Attendees

The following Scholars/ practitioners/educationist who don't have any paper presentation, however they will attend the conference as delegates & observers.

Sr. No	Official ID	Name	Affiliation Details
1.	ATH-4118-101EA	Klaus Foraboschi	Josef-Schlegel-strasse 11, 4020 Linz, Austria
2.	ATH-4118-102MA	Dilrukshi De Silva	Waitemata District Health Board. Auckland, New Zealand

DAY 02 Sunday (November 24, 2018)

City Tour and Shopping Day

All respective guests are free to conduct their own sightseeing and tour. The second day of the event is reserved for this memorable purpose.



**TRACK A: ENGINEERING & TECHNOLOGY,
COMPUTER, BASIC & APPLIED SCIENCES**

The Research of Direct Mineralization Process of Titanium-Magnesium Production Industrial Wastes

Prof. Natalya Kulenova*

Abstract The paper provides results of the research of direct mineralization process of titanium-magnesium production industrial wastes by using rotor vacuum evaporator. Industrial waste used in the research was nontransparent dark brown liquid to greenish, its density - 1,037g/cm³; chloride content - 30,5 g/dm³; pH 6,61. Experimental procedure was as follows: industrial wastes were charged into rotor vacuum evaporator with automatic temperature control. In the course of experimental research the influence of temperature on the process of thermal demineralization was studied. Residual pressure was less than 50 mbar, and process time was 30 minutes. It was found that when the temperature of distillation increases from 40 oC to 70oC, residual output is reduced from 52 % to 11% of the charged industrial wastes mass, and output of condensate almost doubled. The produced condensate can be recommended for the use in the system of internal water circulation at an enterprise.

Keywords: Titanium-Magnesium Production, Industrial Wastes

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Optimization of Energy Consumption and Emissions of Greenhouse Gases At Lead-Smelting Production

Viktor Shumskiy*

Abstract In this paper, we propose the effective Decision-Making Network with Siamese (Siamese-DMN). The proposed model combines Fully-Convolutional Siamese Networks (Siam-FC) and decision-making Network (DMN) to robustly track the target object. The Siam-FC extracts feature and location of the target object using two images. The DMN learns based on deep reinforcement learning and precisely predicts the position of the target object from the feature and location information of the extracted target object. We keep track of the target object and store the features of the target object to maintain temporal information and prevent the target object from changing. The proposed Siamese-DMN was evaluated using VOT dataset.

Keywords: Visual Object Tracking, Deep Reinforcement Learning

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Research of Iron Oxidation Process in Sulphate Zinc Solutions by Pyrolusite

Zhanar Onalbayeva*

Abstract The paper provides results of researching iron (II) oxidation process in the solution that was produced during atmospheric sulphuric-acid leaching of low-grade zinc concentrates. Experimental procedure was as follows: solution containing, g/dm³: 101,9 – Zn; 21,33 – Fe (Fe²⁺ - 9,4 g/dm³); 2,43 – Cu; 22,3 – H₂SO₄, was heated to the temperature 50-60 oC, and neutralized up to 13-15 g/dm³ on sulphuric acid, and milled pyrolusite (MnO₂) was added. The process was carried out for 60 minutes. It was found that when 150 % of MnO₂ is consumed of theoretically required amount, residual content of Fe²⁺ in solution is less than 0.5g/dm³.

Keywords: Sulphate Zinc Solutions, Iron, Oxidation, Pyrolusite

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**TRACK B: MEDICAL, MEDICINE AND HEALTH
SCIENCES**

Frequency of Musculoskeletal Pain Among The Students of Vocational School Of Health Services In Adana

Emir Ibrahim Isik^{1*}, Erkan Kozanoglu², Neslihan Boyan³

Abstract The objective of this study was to investigate the prevalence of musculoskeletal pain of nine different anatomical areas in Vocational School of Health Services' students. 741 participants from nine different subdivisions of VSHS included to the study. Sociodemographic information such as age, gender, height and weight values was recorded. The Turkish version of the Nordic Musculoskeletal Questionnaire score was the main outcome measurement. This questionnaire identified work-related pain or discomfort in 9 parts of the body, including: neck, shoulder, elbow, wrists, upper back, low back, hips/thighs, knee, and ankle. The findings of this study showed the prevalence of musculoskeletal pain were highest on Oral and Dental Health program and Physiotherapy Assistant program. For all subdivisions; students who spend a long period of time on standing position during their educational practices had pain at foot and low back regions; students who spend a long time in fixed (stable) position both standing and sitting, had pain at back and neck regions; students who work with a heavy lifting had low pain at back, upper back and neck regions more frequently. The prevalence of musculoskeletal pain was higher in Vocational School of Health Services' students, especially in the neck, upper back and low back regions.

Keywords: Musculoskeletal Pain, Pain, Vocational School of Health Services (VSHS), College Students

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**TRACK C: BUSINESS, ECONOMICS, SOCIAL
SCIENCES AND HUMANITIES**

Online Learning Behavior Intentions – Understanding of Quality of Service toward User Satisfaction, Involvement, and Perceived Value

Firas Habbal*

Abstract Using innovative technologies is a market demand, it reflects the student loyalty and it affects the financial performance on educational institutions as well as students' behavioral intentions. The paper studies users behavior and the relation between users' intentions and the factors affect those intentions. The study builds its results based on assessing the relation between the identified factors across the academic industry. Several factors are also considered and studied in the research model such as value perception, quality of service, and customer satisfaction; the paper studies those factors and how it affects the students' involvement towards performance. The paper study methodology is primary survey and structural modeling to understand the rational model.

Keywords: Online learning, Service Quality, Perceived value, Behavior Intentions, Satisfaction

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The Effects of a Peer Network Intervention on The social Skills of High-Functional Adolescents with ASD

Stamatina Kalyveza^{*1}, Aik. Maridaki-Kassotaki², Agg. Gena³,
Aik. Antonopoulou⁴

Abstract Developing positive relationships among teenagers affects not only their academic achievements but also their general psychological condition (Sreckovic Hume., Able.,2017; Rubin et al.2009; Wentzel et al 2012). Teenage students who suffer from a disorder within the autistic spectrum, of high functionality without comorbidity with mental retardation, have limited positive social contacts with their peers (Wagner et al 2004). The present study aims at examining whether a specific intervention program helps to improve the social skills of students with a disorder within the autistic spectrum, aged 14 and 15, without comorbidity with mental retardation, who participated in a program that is the application of "Circle of supports" (Mosley Niwano 2007) in greek. It is an internationally accredited structured programm that aims to enhance the social skills of students through a variety of activities, through games and discussions that interchange every time the programm is applied. The multiple baselines across participants with generalisation scenarios through all phases of the experimental procedure (baseline, intervention, maintenance) comprised the design of the research study. In this presentation "Circle of supports" will be presented in detail, as well as part of the study's findings, that support the positive effect of the programm towards the improvement of the social skills of students with disorder within the spectrum of Autism without mental retardation, as well as their typical classmates.

Keywords: Autism-Social Skills-Adolescents-Peer Network-Intervention-Circle Time

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Are Georgian Teenagers Satisfied with their Body Image?

Magda Rukhadze*

Abstract Research of a perception of a body image among adolescents has become important during the recent years. Body image refers to how people feel, think and perceives about their appearance and body. This perception may be positive or negative. Body image is influenced by various factors such as culture, family, social environment, media, self-esteem and etc. The aim of this research is to examine body image perception among the teenagers in Georgia and influencing factors on the formation of their body image. The survey was conducted with 80 Georgian teenagers aged 13-19 (40 girls and 40 boys). The study showed that appearance is important, especially to women. Their perceptions seem to be relevant to gender stereotypes. Teenagers start to evaluate their appearance at the age of 11. 78.8% of the respondents reported internet to be the most influential factor in the perception of their appearance, followed by television (52.5%). Adolescents would be happy to have the opportunity to make some changes in their appearance. Most of them would change their weight, followed by height, and body. Teenagers who has high self-esteem are more satisfied with their appearance than those with relatively low self-esteem. In the future, it is important to conduct a larger-scale research with adolescents; It is also important to use research findings in practice and to support teenagers to develop positive attitudes toward their own body and as well as improve their self-esteem.

Keywords: Body Image, Teenagers, Perception of Body

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Influence of Awareness about Industry 4.0 on Smes Approach to Human Resources Management

Jaroslav Vrchota^{1*}, Jindrich Fuka², Ladislav Rolinek³

Abstract Innovations in industry are the driving force of every economy, where the role of small and medium-sized enterprises, which are marginally involved in its growth, is irreplaceable. Just enough ability to correctly predict future developments will decide on the future success or failure of these companies at the time of the introduction of Industry 4.0. Where, on the one hand, companies expect productivity gains, cost reductions, greater customization, and on the other hand employees worry about their jobs and artificial intelligence replacements. The aim of the paper is to analyze the relationship of 208 small and medium-sized enterprises in the Czech Republic to Industry 4.0 and their expectations in terms of human resources. Using the Wilcoxon test, the hypothesis of the independence tracking for Industry 4.0 was tested and the expectations of changes in employee structure that was rejected. At the materiality level of $\alpha = 0.05$, it has been shown that SMEs interested in novelty in the industry are not concerned about significant changes in human resources, where extreme cases may also include redundancies. The survey has shown that, on the contrary, the lack of awareness of the companies leads to odd concerns about employees.

Keywords: SMEs, Human Resource Management, Industry 4.0

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How Inclusive Innovations Are Inclusive? Exploring Grassroots Innovations in India

Anjali Lakum*

Abstract Promotion of inclusive development has been one of the stated aims of the Indian policy since national independence. However, types of strategies and rules implemented in the past and present for the inclusive development but there are many challenges faced by the government. There are many vulnerable populations and poor people which are not formally registered under local laws so the government does not ensure their inclusion in the inclusive development process, even not able to improve their condition of life. Innovation plays an important role in the development of the society. There are also many local social problems which are faced by the rural people but not registered under the inclusive development process. Rather than depending upon the government schemes and policies some individuals and communities are making some innovations to solve the problems they faced in their daily life. The innovators are saying no to the government programmes because they earn more money from this innovation and can make their development. So in recent times, grassroots innovation is considered as inclusive innovation. This paper examines the factors and basic local problems, because of what grassroots innovation cannot become inclusive in nature. Further discussion in on that, can we consider grassroots innovation as inclusive innovation without overcoming such local social problems?

Keywords: Inclusive Innovations, Inclusive, Exploring Grassroots

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