



Academic Fora

Volume 05, Issue 66



# **ECBA**

*Society of Engineering &  
Technology, Computer, Basic  
& Applied Sciences*

---

**Istanbul, Turkey  
January 05-06, 2019**

# CONFERENCE PROCEEDINGS

## BOOK OF ABSTRACTS ECBA-2019

**International Conference on  
“Engineering & Technology, Computer, Basic and Applied  
Sciences”  
(ECBA-2019), Istanbul, Turkey**



**ACADEMIC FORA**  
[www.academicfora.com](http://www.academicfora.com)

# **Book of Abstracts Proceeding**

**International Conference on  
“Engineering & Technology, Computer, Basic and Applied  
Sciences”  
(ECBA-2019)  
Istanbul, Turkey**

**Office Address:**

**M2-17-01 Tower 2, Level 17 8trium**

**Bandar Sri Damansara**

**52200 Kuala Lumpur, Malaysia**

**Contact: (+6) 03 6735 6566**

**Email: [Contact@academicfora.Com](mailto:Contact@academicfora.Com)**

All rights reserved. No part of this publication maybe reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of the publisher. Applications for the copyright holder's written permission to produce any part of this publication should be addressed to the publisher.

Proceedings of the International Conference on  
“Engineering & Technology, Computer, Basic and Applied  
Sciences  
(ECBA-2019)”

**ISBN: 978-969-683-930-9**

**Disclaimer**

Every reasonable effort has been made to ensure that the material in this book is true, correct, complete, and appropriate at the time of writing. Nevertheless the publishers, the editors, and the authors do not accept responsibility for any omission or error, or for any injury, damage, lose, or financial consequences arising from the use of the book. The views expressed by the contributors do not necessarily reflect those of the Academic Fora.

# TABLE OF CONTENTS

<b>ORGANIZING COMMITTEE .....</b>	<b>V</b>
<b>CONFERENCE CHAIR MESSAGE .....</b>	<b>VI</b>
<b>TRACK A: ENGINEERING &amp; TECHNOLOGY, COMPUTER, BASIC &amp; APPLIED SCIENCES .....</b>	<b>10</b>
1. DESIGN AND SIMULATION OF OPTIMIZED QPSK TRANSMITTER USING HDL CODE IN MATALB .....	11
2. SUSTAINABILITY AND ENVIRONMENTAL QUALITY TO AN EVALUATION SYSTEM OF THE HOUSING IN ALGERIA .....	12
<b>TRCAK B: MEDICAL, MEDICINE AND HEALTH SCIENCES.....</b>	<b>13</b>
3. ESTABLISHMENT OF THE SHARI'AH FRAMEWORK FOR THE APPLICATION OF SOMATIC GENE THERAPY IN HUMAN .....	14
<b>TRACK C: BUSINESS, ECONOMICS, SOCIAL SCIENCE &amp; HUMANITIES .....</b>	<b>15</b>
4. PROBING AROUND THE CONCEPT OF "EVIL GENIUS" - WHAT PREDICTS DARK TRIAD TRAITS AMONG CREATIVE THINKERS?.....	16
5. OPTIMAL RESERVE ACCUMULATION WITH CAPITAL CONTROLS .....	17
<b>FUTURE EVENTS.....</b>	<b>18</b>

**International Conference on  
“Engineering & Technology, Computer, Basic and  
Applied Sciences”  
Istanbul, Turkey  
Venue: Istanbul Gonen Hotel, Istanbul Turkey**

**ORGANIZING COMMITTEE**

**1. Ms. Ani Wahyu**

*Conference Coordinator*

Email: [aniwahyu@academicfora.com](mailto:aniwahyu@academicfora.com)

**2. Mr. Metha Shahi**

*Conference Coordinator*

Email: [metha@academicfora.com](mailto:metha@academicfora.com)

**3. Ms. Petrel Qiu**

*Conference Coordinator*

Email: [grace@academicfora.com](mailto:grace@academicfora.com)

**4. Mr. Metin Gurani**

*Conference Coordinator*

Email: [metin@academicfora.com](mailto:metin@academicfora.com)

## 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: [chair@academicfora.com](mailto:chair@academicfora.com)

ECBA-2019

## **Conference Program**

**DAY 01 Saturday (January 05, 2019)**

**Venue: Istanbul Gonen Hotel, Istanbul Turkey**

09:00 am – 09:10 am	Welcome Reception & Registration
09:10 am – 09:20 am	Introduction of Participants
09:20 am – 09:30 am	Inauguration and Opening address
09:30 am – 09:40 am	Grand Networking Session
09:40 am– 10:00am	Tea Break



**DAY 01 Saturday (January 05, 2019)**

**Session I (10:00 am – 11:00 am)**

**Venue: Room 1**

**Track A: Business, Social Sciences and Humanities**

<b>DIRMBSH-019-ANI104</b>	Probing Around the Concept of ""Evil Genius"	Sara Kanwal	Pakistan
<b>DIRMBSH-019-ANI109</b>	Optimal Reserve Accumulation with Capital Controls	Bada Han	USA

**Track B: Engineering, Technology, Computer and Applied Sciences**

<b>IST-119-101E</b>	Design and Simulation of Optimized QPSK Transmitter using HDL Code in MATALB	Alhamzah Taher Mohammed	Iraq
<b>AISE-JAN-101</b>	Sustainability and Environmental Quality to an Evaluation System of the Housing in Algeria	Daouadi Khedidja	Algeria

**Track C: Medical, Medicine and Health Sciences**

<b>IST-119-105M</b>	Establishment of the Shari'ah Framework for the Application of Somatic Gene Therapy in Human	Zakiah Samori	Malaysia
---------------------	--	---------------	----------

**Lunch Break (11:00 am – 12:00 pm)**

**Closing Ceremony**

**DAY 02 Sunday (January 06, 2019)**

## **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**

# Design and Simulation of Optimized QPSK Transmitter using HDL Code in MATALB

Alhamzah Taher Mohammed \*

**Abstract** In this paper the design and simulation of QPSK transmitter using HDL code in MATLAB is presented. Different applications in DSP require mathematical modeling for investigation and analysis due to the complexity of HDL code language. The idea of design the HDL-SIMULINK form using MATLAB is offering enough facility to modify and improve the wireless communication systems. The methodology of implement any DSP model in real time based on FPGA platforms require to translate the MATLAB-SIMULINK model to HDL code prior the bit generation which downloaded to this board. The floating point implementation should be transferred to fixed point for high dynamic range of applications. An alternative approach has been proposed based on HDL code and the property of simulation environments in MATLAB is designed. The data transfer, synchronization and driving sample between simulink and HDL language are explained in this paper.

**Keywords:** QPSK Transmitter, HDL, MATALB, System Generator

---

Electrical Engineering Technical College - Middle  
technical university 2- Part time in (Computer  
Techniques Engineering - Dijlah University Collage),  
Iraq

\*E-mail: alhamza\_tm@yahoo.com

# Sustainability and Environmental Quality to an Evaluation System of the Housing in Algeria

Daouadi Khedidja\*

**Abstract** We all agree on the fact that our planet is facing big challenges of degradation and environmental crisis. Since the energy crisis in 1973, developed countries have never stopped looking for solutions:

The United Nations General Assembly (world Commission on Environment and Development), in 1987 known as 'Brundtland report which defines the sustainable development. Then through the Rio Conference held in Brazil, which accorded great importance to the application of the principles of sustainable development based on the three pillars: social, environmental and economic; to other interventions. Depends on this awareness planetary, it seems that actors in the field of architecture are among responsible to seek solutions. On the other hand, to measure the environmental quality in the realized buildings is an objective which tightens at an approach of improvement of the frame lives of the occupants and the users to guarantee them the conditions the most comfortable inside and the outside the building. To favor the development of more and more successful buildings is the current context on the energy and environmental plan. In our field of investigation, we notice the absence of the evaluation of the environment quality and the unavailability of a tool for its measured which stands out as the main factor to make an improvement in Algeria. The present research tend to adopt and adapt an environmental. Evaluation tool for the quality of the building in Algeria.

**Keywords:** Sustainability, Environment, Quality, Energy, Housing, Algeria, Comfort, Certification, Evaluation

---

Oum El Bouaghi University, Algeria

\*E-mail: daouadi.khadidja@gmail.com



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



# Establishment of the Shari'ah Framework for the Application of Somatic Gene Therapy in Human

Zakiah Samori<sup>1</sup>, Fadilah Abd Rahman<sup>2</sup>

**Abstract** Human gene therapy is best known as a transfer of nucleic acids to either the somatic cells or germ cells of an individual. It introduces genetic materials which have therapeutic purpose ranging from inherited genetic disorders to certain malignancies and infectious diseases. This medical scientific breakthrough has received lucrative demand worldwide as it offers potential treatment to cure genetic diseases in human at the molecular level. Since then, thousands of people have already participated in the trials thus it is likely to be part of medical practice in the future. Despite of the tremendous benefits that it promises, this new biomedical technology has given rise to several contentious issues from the ethical and religious point of view. Since it comprises of two different therapies namely somatic and germ line gene therapy, each involves different procedures thereby poses different legal ruling and decision. This study attempts to propose a complementary model of the Shari'ah framework on the human gene therapy with special reference to the somatic gene therapy. This proposed framework is designed and developed to fulfil the lacuna of the Shari'ah Framework on the application of the somatic gene therapy after an in depth study of its position from the Shari'ah point of view. In achieving this, a detailed analysis and outlook into the Qur'anic evidences along with the Hadith of the Prophet Muhammad pbuh were carried out. Following this, its position from the pragmatic approach of the Maqasid al-Syariyyah (Objective of the Shari'ah) and the Qawa'id Fiqhiyyah (Islamic Legal Maxims) is also analysed in further detail. This model of Shariah Framework would serve as the ethical basis for the application of somatic gene therapy in Malaysia and beyond (particularly Muslim countries) especially for Muslim doctors, scientists and Muslims at large. For Muslim countries such as Malaysia where Muslims makes the majority of the population and Islam as the official religion in Article 3 of its Federal Constitution, this framework is deemed to be important reference in providing the essential guidelines on the permissibility of this therapy. Consideration of the position of Somatic Gene Therapy from the Shari'ah perspective is undeniably crucial in any attempt to regulate Somatic Gene Therapy in any Muslim countries in the future.

**Keywords:** Somatic Gene Therapy, Shari'ah Framework, Islamic Principles Maqasid Syariyyah Qawaid Fiqhiyyah

---

Universiti Teknologi MARA (UiTM), Malaysia

\*E-mail: zakiah@gmail.com



ACADEMIC FORA  
www.academicfora.com

**TRACK C: BUSINESS, ECONOMICS, SOCIAL  
SCIENCE & HUMANITIES**





# Probing Around the Concept of "Evil Genius" - What Predicts Dark Triad Traits among Creative Thinkers?

Sara Kanwal<sup>1\*</sup>, Rukhsana Kausar<sup>2</sup>

**Abstract** The current correlational research attempts to probe around the concept of “evil genius” and to identify potential predictors (general intelligence (IQ), emotional intelligence (EQ), social intelligence (SQ) and moral development) of Dark Triad (Psychopathy, Narcissism, Machiavellianism) personality traits. The study involved a sample of creative thinkers (N=192) collected via non-probability purposive sampling and also explored the role of ‘creative thinking’ (n=192) as a mediator in the proposed model. Assessment measures included Abedi-Schumacher Creativity Test (Abedi, 1994), Emotional Intelligence Scale (Schutte, et al., 1998), Social Skills Inventory (Riggio, 1986), Moral Judgment Test (Lind, 2008), Wechsler Abbreviated Scale of Intelligence (Wechsler, 1999) and Dirty Dozen Scale (Jonason & Webster, 2010). Results highlighted a full mediational role of creative-thinking in the relationship between EQ, SQ, MQ and sub-clinical Narcissism; EQ and sub-clinical psychopathy; MQ and Machiavellianism. Moreover, partial mediations were observed between SQ, MQ and psychopathy; SQ and Machiavellianism. This study contributed intriguing findings that would help clinicians and related professionals to devise/improvise rigorous strategies for an enhanced management of dark triad traits in creative thinkers and would help maintain the utmost crucial balance between a positive and negative traits in a creative thinker.

**Keywords:** Dark Triad (Sub-Clinical Narcissism, Sub-Clinical Psychopathy, Machiavellianism), Creative Thinking

---

<sup>1,2</sup> University of Management & Technology, Lahore, Pakistan

\*E-mail: sarakanwal28@gmail.com

# Optimal Reserve Accumulation with Capital Controls

Bada Han\*

**Abstract** In this paper, we first build a model of international reserves as a policy tool against sudden stops where we introduce two distinctive features. First, we assume that reserves can work as a collateral so as to provide Emerging Market Economies (EMEs) more leverage. This assumption not only provides an incentive to hold costly reserves, but also explains why EMEs were hesitant to deplete their reserves during sudden stops. Second, following recent papers of foreign exchange market interventions, we assume that UIP does not perfectly hold in foreign exchange markets in EMEs, which allows reserve accumulation to raise the Net Foreign Assets of the EME. However, despite the two advantages of accumulating reserves, holding reserves results in a form of moral hazard of decentralized agents. Moreover, because of the moral hazard, the reserves management policy is time-inconsistent. With the constructed model, we explore how macroprudential capital controls can handle these side effects. Like the preceding works, we find that the optimal tax on the foreign borrowing eliminates the moral hazard, which greatly raises the effectiveness of reserve accumulation. Further, we show the optimal tax rate on foreign borrowings increases in reserves since the size of the overborrowing becomes larger as the government accumulates more reserves. Based on this finding, we suggest a simple, yet effective taxation in which the tax rate increases in reserve accumulation.

**Keywords:** International Reserve, Capital Control, Sudden Stop

---

University of Southern California, USA

\*E-mail: badahan@usc.edu

## **FUTURE EVENTS**



**You can find the Details regarding our future events by following below:**

**Business, Economics, Social Science & Humanities (BESSH) Conferences:**

**<http://academicfora.com/buisness-conference-home/>**

**Engineering & Technology, Computer, Basic & Applied Science**

**<http://academicfora.com/engineering-conference-home/>**

**Medical, Medicine & Health Science**

**<http://academicfora.com/medical-conference-home/>**

**For paper publication:**

**You can contact at [publication@academicfora.com](mailto:publication@academicfora.com)**



Academic Fora

# **VISION**

*Our vision is to promote research  
excellence through networking  
Platform.*