



Gieas

GI Engineering, Technology, Applied Sciences Forum

***International Conference on
Telecommunication, Engineering,
Energy, Applied Sciences & Smart
Materials***

December 14-15, 2019

Singapore

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International Conference on Telecommunication, Engineering, Energy,
Applied Sciences & Smart Materials (TEEAS-DEC-2019)
TEEAS© 2019 Singapore
GI Engineering, Technology, Applied Sciences Forum, Kuala Lumpur,
Malaysia.



TEEAS 2019

Conference Proceeding

Book of Abstracts

**International Conference on
Telecommunication, Engineering, Energy, Applied
Sciences & Smart Materials
(TEEAS-DEC-2019)**

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Editor:

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Country Director (Global Illuminators Iraq)

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Conference Co-Chair

Muhammad Abbas (Ph.D.)

*Director Policy & Research (G1 Engineering Technology
Applied Sciences Forum)*

On Chee Hoong

*Manager Operations (G1 Engineering Technology
Applied Sciences Forum)*

Conference Chair Message

Farooq Ahmed Jam (Ph.D.)



International Conference on Telecommunication, Engineering, Energy, Applied Sciences & Smart Materials (TEEAS - 2019) 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 regional and global challenges faced by our societies. 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. The scholars attending this conference will certainly find it helpful in refining their own research ideas, finding solutions to basic/applied problems they face, and interacting with other renowned scholars for possible future collaborations.

I am really thankful to our honorable scientific and review committee for spending much of their time in reviewing the papers for this event, selecting the best paper awards, and helping the participants in publishing their research in

affiliated journals. Also, special thanks to all the session chairs from industry, academia, and policy-making institutions who volunteered their time and support to make this event a success. A very special thanks to the great scholars for being here with us as keynote speakers. Their valuable thoughts will surely open the horizon of new research and practice for the conference participants coming from across the globe. 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 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 to the betterment of society and welfare of humanity to bring prosperity, peace, and harmony in this world. Stay blessed.

Type of TEEAS Papers

For this year, TEEAS has two types of papers: *Empirical Studies* and *Insight*. Research papers meet the needs of researchers and are reviewed on the basis of highest academic standards. The objective of the academic paper is to contribute to the scientific body of knowledge. On the contrary, Insight papers meet the needs of policy makers and professionals and are reviewed on the basis of high practical standards. The objective of the Insight is to identify the real-world problems and how they can be solved with the help of information systems.

Reviewing Criteria

In TEEAS, all papers are judged on the same criteria (relevance, significance, originality, validity and clarity). However some criteria differ between the Research papers and Insight papers.

Relevance: Relevance has a great impact on the theme of the conference. The material is relevant and according to the theme of the conference.

Significance: Knowledge in different researches in the conference is related to research papers and insight papers.

Originality: Ideas that are new for the researchers are used in the conference.

Validity: Research papers in the conference are based on theory while the insight papers in the research are based on experimental researches. References are according to content.

Clarity: Papers are according to the format, language is easy and understandable by the audience in the conference.

Acceptance Rates

Full Research Papers				
Submitted Papers	Accepted Papers	Withdrawn	Unqualified papers	Acceptance Rate
33	21	2	10	63.63%

Copyright Agreement

In TEEAS 2019 proceedings, all authors have agreed on the copyright agreement. This agreement shows that only authors can retain copyright. It also permits that nobody can use, for non-commercial purpose such as to download, print out etc., an article published in the TEEAS 2019 proceedings. All credit is given to the authors and they have copyright agreements. This copyright agreement and use license ensures, among other things, that an article will be as widely available as possible and that the article can be included in any scientific archive.

Acknowledgment

A huge number of people helped in conducting the conference. First of all, thanks to all the members of the Conference and Program Committee and representatives of the TEEAS board and their helpers. We also want to thank all the Track Chairs and reviewers, as well as all the members of the Scientific Committee, for their help in the review process and organizing the tracks and special sessions. We thank everyone for their hard work and dedication to this conference and we look forward to the latest episode of the TEEAS tradition.

Farooq Ahmed Jam (Ph.D.), Tariq Iqbal Khan (Ph.D.)
And Muhammad Abbas (Ph.D.)
Program Chair & Co-Chairs

**INTERNATIONAL
SCIENTIFIC REVIEW COMMITTEE
TEEAS-2019**

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TEEAS 2019 Tracks' Chairs

Social Sciences and Humanities Studies

Ms. Shabana Muhammad Anwar

Business, Management, Economics and Health Studies

Dr. Tariq Iqbal Khan

TEEAS 2019 Workshop

“How to Improve the Quality of A Research Article and Get It Published in Scopus/ISI-Indexed Journals.”

Trainer: Tariq Iqbal Khan (Ph.D.)

In this workshop, we will discuss how to improve the quality of a research article and to get it published in good quality journals. Publication is considered as a KPI achievement for academic staff. It is considered to be the best way to enjoy benefits and promotion as a faculty member. In this workshop, trainer will shed light on how to identify a hot research topic, how to find a research gap, importance of a catchy Research Paper Title, what reviewers are looking for in a research article, what editors are expecting from authors, major reasons for article rejection by good journals, steps and tips to improve article quality and content, and finding a relevant outlet for your research. I hope this workshop will help the participants improve their understanding of the publication process.

Best Paper Nominee List

Are Leaders in Thailand Prepared for Thailand 4.0?

*Dr. Klaudia Schmidt**

BUSEM - School of Entrepreneurship and Management,
Bangkok University, Thailand

JRU Finance Students' Skills and Competencies Training: The Bloomberg Experience

Prof. Jayson Lannu^{1}, Leodigario David², Gloria Reyes³*

^{1,2,3} Jose Rizal University, Philippines

Language Metaphor and Pattern of Thought used by Nouman Ali Khan Speech of Quran Interpretation

*Tisa Arum Wardani**

Universitas Negeri Surabaya, Surabaya, Indonesia

A Pragmatic Study of Jakarta Post and Jakarta Globe News Headlines after Indonesian General Election 2019

*Anik Nur Qomariyah**

Universitas Negeri Surabaya, Surabaya, Indonesia

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TEEAS 2019 Best Paper Award Winner

Are Leaders in Thailand Prepared for Thailand 4.0?

*Dr. Klaudia Schmidt**

BUSEM - School of Entrepreneurship and Management,
Bangkok University, Thailand

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*Assistant Professor
University Of Haripur, Pakistan*

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Editor

Dr. Ahmad Saddam (Ph.D.)

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CONFERENCE PROGRAM

DAY 01 Saturday (December 14, 2019)

Welcome Reception & Registration

08:00 am – 08:30 am

Opening Ceremony (08:30 am – 09: 35 am)

Venue: Room 1

08:30 am – 8:40 am	Welcome Remarks – Mr. Metha	Conference Coordinator Global Illuminators
08:40 am – 8:50 am	Opening Speech – Dr. Tariq Iqbal Khan (Ph.D.)	Director Global Operations Global Illuminators Conference Chair ICMRP-2019
08:50 am – 09:05 am	Keynote Speech- Prof. Jayson Lannu	Jose Rizal University, Philippines
09:05 am – 9:20 am	Group Photo & Award Ceremony	

Grand Networking Session and Tea Break (09:20 am – 09:35 am)

DAY 01 Saturday (December 14, 2019)

Session 1 (09:35 am – 11:30 am)

Venue: Room 1

Session Chair: Ms. Shabana Muhammad Anwar

Track A: Business Management, Economic, Social Sciences and Humanities

ICMRP-19-110	Are Leaders in Thailand Prepared for Thailand 4.0?	Dr. Klaudia Schmidt
ICMRP-19-114	The Role of Organizational Culture on Organizational Commitment of Vocational High School Teachers	Umi Anugerah Izzati
ICMRP-19-115	Application of Hydrophilic Implant and Platelet Derived Substance for Initial Osseo-Integration Enhancement: In Vivo Study Using Twelve New Zealand White Rabbits	You jae seek
ICMRP-19-120	JRU Finance Students' Skills and Competencies Training: The Bloomberg Experience	Prof. Jayson Lannu
ICMRP-19-123	Language Metaphor and Pattern of Thought used by Nouman Ali Khan Speech of Quran Interpretation	Tisa Arum Wardani
ICMRP-19-124	A Pragmatic Study of Jakarta Post and Jakarta Globe News Headlines after Indonesian General Election 2019	Anik Nur Qomariyah
SMSTPA-19-102	Exploring the Marriage System of Baloch Tribes and Getting Marriage is Difficult for Baloch Males Living in Blochistan Pakistan: A Sociological Analysis	Shabana Muhammad Anwar
SMSTPA-19-109	Hiring Decisions of Entry-Level Accountants: Perception Gaps between Accountants and Students	Dr. Rachel Wai Yi CHEUNG

DAY 01 Saturday (December 14, 2019)

Workshop Session (11:30 am – 01:00 pm)

Venue: Room 1

“How to Improve the Quality of Research Article and get published in Scopus/ISI Indexed Journals”

Trainer	Dr. Tariq Iqbal Khan (Ph.D.)
Participants	All Participants

In this workshop, we will discuss how to improve the quality of research article and getting published in good quality journals. Publication is considered as a KPI achievement for academic staff. It is considered to be the best way to enjoy benefits and promotion as a faculty member. In this workshop trainer will shed light on how to identify a hot research topic, How to find a research gap, Importance of a catchy Research Paper Title, What Reviewers are looking in research article, What editors are expecting from authors, Major Reasons of article rejection in good journals, Steps and tips to improve article quality and content and Finding a relevant outlet for your research. Hope this workshop will help the participants improve their understanding about publication process.

Lunch Break: (01:00 pm – 02:00 pm)

DAY 01 Saturday (December 15, 2018)

Session 2 (02:00 pm – 3:30 pm)

Session Chairs: Dr. Tariq Iqbal Khan

Track B: Engineering, Technology & Applied Sciences

TEEAS-19-102	Numerical Simulation of Fluid Flow in a Bifurcated Microchannel Network	Ademola Dare
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Tea Break: (03:30 pm – 03:45 pm)

DAY 02 Sunday, (December 15, 2019) **“CITY TOUR”**

Gathering of Participants at the Lobby of Hotel Grand Pacific Singapore,
at 09.00 am Departure: 10:00 am for City Tour.

Drop Back at Hotel Grand Pacific Singapore at 05:00 pm

Important Note: This tour is organized by Global Illuminators and entry to this tour is free for all participants. You may also bring your Siblings/Family/Friends but you have to register for them on registration desk one day before the tour.

TRACK A: BUSINESS MANAGEMENT & ECONOMIC STUDIES

Are Leaders in Thailand Prepared for Thailand 4.0?

Dr. Klaudia Schmidt*

Business Development Director/Senior Lecturer/Research -
BUSEM - School of Entrepreneurship and Management, Bangkok
University, Thailand

Abstract

Industry 4.0 is celebrated in Thailand as the next level of economic success for their country. The concept is also called Thailand 4.0 to emphasize that for the adapted Thai version of Industry 4.0 Creativity and Innovation are defined as main targets. The problem with Thailand 4.0 is that in the whole discussion the preconditions and consequences that this change needs in order to be successful are somehow neglected, ignored or unfortunately played down. A successful implementation of Thailand 4.0 requires leaders and with them a certain mindset and behavior so that they are equipped to transform and motivate employees in the direction of Creativity and Innovation. Leadership is also embedded in the predominant culture of any society and can support or block change. Fifteen leaders, Thais and foreigners, were interviewed for this study to understand how prepared leaders are for Thailand 4.0 and their shift towards creativity and innovation.

Keywords: Change Management, Creativity, Culture, Industry 4.0, Innovation, Thailand, Transformational leadership, Trust

*All correspondence related to this article should be directed to Dr. Klaudia Schmidt, BUSEM - School of Entrepreneurship and Management, Bangkok University, Thailand
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The Role of Organizational Culture on Organizational Commitment of Vocational High School Teachers

Umi Anugerah Izzati^{1*}, Olivevia Prabandini Mulyana²

^{1,2} Universitas Negeri Surabaya, Surabaya, Indonesia

Abstract

Organizational commitment is an important aspect that must be owned by every employee to achieve organizational goals. If employees do not have organizational commitment, it will have a negative impact on an organization, for example, frequent work attendance, high turnover, frequent absences and low performance. So that employees can achieve organizational goals, the leader needs to know the factors that can affect organizational commitment. This study aims to determine the role of organizational culture on organizational commitment to teachers. This study uses a quantitative approach. The subjects in this study were teachers who worked in one private vocational high school. The instrument used in the form of a scale of organizational culture and scale of organizational commitment. Data analysis using regression analysis techniques. The results of this research show that organizational culture has an important role in organizational commitment.

Keywords: Organizational culture, Organizational commitment and Teachers

*All correspondence related to this article should be directed to Umi Anugerah Izzati, Universitas Negeri Surabaya, Surabaya, Indonesia
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JRU Finance Students' Skills and Competencies Training: The Bloomberg Experience

Prof. Jayson Lannu^{1*}, Leodigario David², Gloria Reyes³
^{1,2,3} Jose Rizal University, Philippines

Abstract

In a highly dynamic and data-driven economy and with the influx of information from various sources mobilized by internet connectivity and innovative platforms, finance professionals encounter challenges as they struggle to assess and interpret data expeditiously as they come. To address this phenomenon, Jose Rizal University has partnered with the leading global financial trading institution such as Bloomberg. A number of students under the finance program who envision themselves as stock traders, analyst and portfolio managers have undergone a skills-based training through the Bloomberg Professional Training Program. The program aims to offer students the fundamental knowledge in trading various types of securities used by individuals and institutional participants in the capital market. As this is a pioneering certification program offered to finance students, this study served as a preliminary assessment on the experiences of students given modules in equities, foreign exchange, fix-income and bonds, and portfolio management. Students assessed the significance and relevance of these modules to their professions in the future and making them equipped with the necessary skills and technical know-hows that would lead to sound financial decision-making. The results of the study provided a positive validation of the University's partnership with Bloomberg as students acknowledged the relevance of the certification program to their professions as they plan to venture into capital market trading. The modules provided necessary skills in decision-making with the utilization and navigation of a financial tool software that allowed them to maximize data and provide accurate forecasts. Given the favorable results of the study, it is to best interest of students and the University to continuously offer the certification program not just to finance students but also students under the Business Administration program and other professionals who seek to acquire new knowledge and improve their securities trading competencies.

Keywords: Bloomberg, Capital Market, Finance, Securities Trading, Skills-Based Training

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Email: jayson.lannu@gmail.com

Hiring Decisions of Entry-Level Accountants: Perception Gaps between Accountants and Students

Dr. Rachel Wai Yi CHEUNG*
Macau Institute of Management, Macau

Abstract

This paper investigates the gaps between the expectations of professional accountants and the perceptions of accounting students in Hong Kong in the context of recruitment criteria for entry-level accounting graduate's position, with a particular emphasis on "ethics coverage" criterion. Adopting a quantitative research method, two similar sets of questionnaires with different demographic questions were distributed to professional accountants and students in Hong Kong. Students data were drawn from those studying accounting studies in ten higher education institutes in Hong Kong. Participants are required to rank the importance of a set of nine employment selection criteria for the recruitment of entry-level accounting graduates. Findings suggested that the ranks of each of the nine criteria (technical and non-technical skills) between those two groups are quite similar, but bigger gaps found in "Professional Accounting examinations eligibility", "ethics coverage", and smaller gaps found in "communication", "GPA-overall", "GPA- accounting" and "Energy, motivation, enthusiasm". Based on the findings, some key recommendations were made. These include a greater inclusion of non-technical skills in accounting education, especially "communication", which is the most important criterion required by the respondent Accountants. This might require the educators to incorporate more communication-related studies in the accounting curriculum. It is encouraging that students rank "ethics coverage" more important than the Accountants do. Our future accountants perceive "ethics coverage", a recruiting criterion, more important than their predecessors. The results may give further idea on the developers of vocational based programmes to include appropriate non- technical skills in their curriculum so to help students adapt this ever changing world.

Keywords: Vocational Education, Ethics, Higher Education, Students, Accountants, Recruitment

*All correspondence related to this article should be directed Dr. Rachel Wai Yi CHEUNG, Macau Institute of Management, Macau
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TRACK B: SOCIAL SCIENCES & HUMANITIES

Exploring the Marriage System of Baloch Tribes and getting Marriage is Difficult for Baloch Males Living in Blochistan Pakistan: A Sociological Analysis

Shabana Muhammad Anwar^{1*}, Pro. Dr. Fateh Muhammad Burfat², Muhammad Irfan³

^{1,2,3} University of Sindh Jamshoro, Pakistan

Abstract

Balochistan is the largest province of Pakistan and Quetta is capital of this province. Many ethnic groups are living in Balochistan like Baloch, Brahvi, Pashtun, Punjabi, Urdu speaking. The Baloch including Brahvi are 55% of total population whereas 35% are Pashtun live in Balochistan. These ethnic groups are having their cultural values, which are very much valuable for them. Baloch people are very much simple in nature and having rich cultural values; they have strong traditional values and feel proud to practice in daily routine life. Baloch people have their strong "Sardari system" they love to follow their traditional system. The word "Bijjar" is known as Balochi word which is used for co-operation when someone wants to get marry the groom has Bijjar from the relatives to bear all expenses of marriage ceremony. Bijjar system helps the groom to get marry but due to social change and technological advancement whereas families are having a lot of problems to maintain their household expenses how relatives are asking for "Bijjar" because Bijjar is system in which groom's family should return when someone else need this. The aims of research were to highlight the importance of "bijjar" and ("Lub" bride price) how this traditional value create economic hurdles for males to get marriage and to know the demands of bride's family from groom to fulfill their desires in marriage ceremony. Research was qualitative, and study was conducted from Quetta city capital of Balochistan. The tool of data collection was Interview schedule. Data was conducted 12 married Baloch males was through convenient probability sampling technique. Collected data was analyzed through thematical approach. Results showed that sometimes traditional value Lub is helpful for them but mostly, groom is not having strong economic status and having less earing opportunities that male(groom) faced a lot of difficulties to get married because bride's family demands to bear all expenses of marriage. Sometimes they get late to satisfy all demands of bride's family. And everyone cannot fulfill the requirements of bride's family. Traditional value Lub is fruitful vales for bride's family not for groom. Grooms who do not have strong economic background are not happy with traditional values Lub. The relaxation about Lub depends on bride's family that sometimes groom's

family wish to has because specific amount of Lub creates environment of frustration for groom's family. They believe Materialistic approach cannot be the source of strong relation between husband and wife but they are compelling to follow their traditional value Lub.

Keywords: Marriage, Traditional Values of Marriages, Bijjar, Lub

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Language Metaphor and Pattern of Thought used by Nouman Ali Khan Speech of Quran Interpretation

Tisa Arum Wardani*

Universitas Negeri Surabaya, Surabaya, Indonesia

Abstract

This study is aimed to investigate metaphor and the use pattern of thought in a speech in interpreting quran proposed by Nouman Ali Khan. Nouman Ali Khan is American lecturer and also moslem influencer in the world. He is the linguist who became the Alquran interpreter. Furthermore, this also try to find out what are the strategies that Nouman Ali Khan used in his speech. In speaking, people will try to correlate their mind and their utterances. The utterances became an expression from the people's mind. The metaphor also relate to the ways of knowing and thinking in language style expression, while the way the people expressing the mind is produce the pattern. The theories say how people thought built the pattern in thinking is proposed by Kaplan (1996). The pattern of language use are the unique phenomena occur in every people. They have systematically pattern in using their mind and language unconsciously. This study used qualitative which involved in explaining what and how Nouman Ali Khan use the language metaphor and analogy in his speech. The subject of the analysis in the Nouman Ali Khan speech consisted of surah fatihaa interpretation. Furthermore, the researcher draw the conclusion about the pattern of thought that used, strategy of speech and public speaking used by Nouman Ali Khan.

Keywords: Language metaphor and analogy, Pattern of Thought, public speaking

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Email: Tisareog@gmail.com

A Pragmatic Study of Jakarta Post and Jakarta Globe News Headlines after Indonesian General Election 2019

Anik Nur Qomariyah*

Universitas Negeri Surabaya, Surabaya, Indonesia

Abstract

Mass media, has been growing lately and has influenced all aspect in life. The language choice could become the factor which could attract others attention using news headlines, This research aims to analyze the types of speech act employed in Jakarta Post and Jakarta Globe. Fifty headlines are selected from those two online web pages which consist of 20 headlines from Jakarta globe and 50 headline from Jakarta post. Descriptive statistics were used. The result showed us the basis of the findings of the analysis. First, Assertive speech acts outnumber the other speech acts which are employed in the headlines of both Jakarta Globe and Jakarta Post news channels. 2. The two corpora obtained from the headlines of Jakarta Globe and Jakarta Post channels covering after election show that they are similar that in both channels have similar percentages of using assertive and declarations in their headlines. On the basis of the conclusions above, one can infer that the study of speech acts in headlines on news channels can be an instrumental way to reveal the intended meaning and thus, affect the readers' beliefs about certain issues.

Keywords: Speech Acts, News Headlines

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TRACK C: HEALTH & MEDICINE SCIENCES

Application of Hydrophilic Implant and Platelet Derived Substance for Initial Osseo-Integration Enhancement: In Vivo Study Using Twelve New Zealand White Rabbits

You Jae Seek^{1*}, Lee Kyuhoon², Lee Hyejung³, Jung Gyeowoon⁴
^{1,2,3,4} OMFS, Chosun University Dental Hospital, Republic of Korea

Abstract

Purpose: Many attempts were made in order to increase the effects of bone regeneration through surface treatment on implants, now recent advancements aim towards development and application of combinable and bio-active molecules rather than developing implant surface treatment technology. However, surface treated titanium exhibits extremely low wettability and hydrophobic interrupting osteoblasts to flow in and prevents osteogenic blood protein to attach onto the surface of implants hence decreasing bone to implant contact ratio as well as biocompatibility which in turn adversely impacting osseointegration. This study will investigate the effects of photofunctionalization on initial stages of osseointegration through ultraviolet (UV) ray exposure to implant surface and simultaneously applying platelet derived fibrin(PRF). **Material and Methods:** 1) Experiment procedure - Two implants were placed (point nix SLA implants) on each of the 12 left and right femurs of 2.5 kg New Zealand white rabbits; Upper Left quadrant: SLA Implant (Control) ② Lower left quadrant: UV treated SLA Implant ③ Upper right quadrant: UV treated SLA Implant immersed in saline ④ Lower right quadrant UV treated SLA Implant immersed in PRF - After the implants are placed, sacrifice was carried out for 6 rabbits after 2,4 weeks, respectively. 2) Clinical analysis - The Implant Stability Quotient was compared with the MEGA ISQ immediately after implant placement and at sacrifice. 3) Histological assessment - Goldner trichrome staining was performed and the bone to implant contact (BIC) ratio was assessed using an optical microscope. 4) Statistical analysis - One-way ANOVA test using SPSS 18 (SPSS Inc., Chicago, IL, USA) program was performed. **Results:** The BIC ratio and ISQ values showed statistically better results than those of control specimens in UV-treated implants. The PRF-impregnated experimental group showed better BIC ratio and ISQ values than the other experimental groups, but there was no statistical significance. **Conclusion:** In conclusion, the UV-treated implants exhibited significant advantages for early osseointegration and platelet-derived materials could also be used as bone formation promoters. Further research is recommended regrading long-term promotion of osseointegration and stability.

Keywords: Hydrophilic Implant and Platelet, Derived Substance

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TRACK D: ENGINEERING, TECHNOLOGY & APPLIED SCIENCES

Numerical Simulation Of Fluid Flow In A Bifurcated Microchannel Network

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University of Ibadan, Ibadan, Nigeria

Abstract

The enormous shortage of tissue for transplants due to over population in some parts of the world and rising call for more study in vitro-simulation of human body transport system has aroused the need for full characterization of flow of heat and fluid in microchannel as typical in blood vessels. More than 90% of the flow branching in the arterial networks in the pig coronary region occurs through bifurcations. It is also the prevailing form of branching in the air passages of the human lung. Detailed understanding of the flow characteristics in microchannel could be very useful in addressing medical related issues associated with blood flow. In this study three 2-dimensional bifurcated models were constructed. The bifurcation angles used are 30°, 45° and 60° with a uniform decrease in diameter of the microchannel from 200µm to 25µm, as the bifurcations are formed. Numerical model was developed based on the conservation of mass, momentum and energy laws. The governing equations were solved utilizing the thermo-hydraulic properties of human blood to obtain temperature, velocity and pressure history inside the microchannel and then analysed to assess the impact of the investigated bifurcation angles on the performance of the channel. From the results, it is observed that there was high hydraulic gradients at the bifurcation junctions. The temperature was uniform throughout the channel as typical in the human blood. The results showed that the bifurcation angle has a great impact on flow characteristics in a microchannel. A 30° bifurcation angle channel was found more efficient as the fluid velocity is appreciable and with little loss in fluid pressure along the channel.

Keywords: Fluid flow, Micro-channel, Bifurcation, Blood-vessels

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FUTURE EVENT

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Date: February 22-23, 2020

Venue: Hotel Mystays Ochanomizu Conference Center,
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Submission Email: easit@gieas.org

Abstract Submission Date: February 05, 2020

Full Paper Submission Date: February 10, 2020

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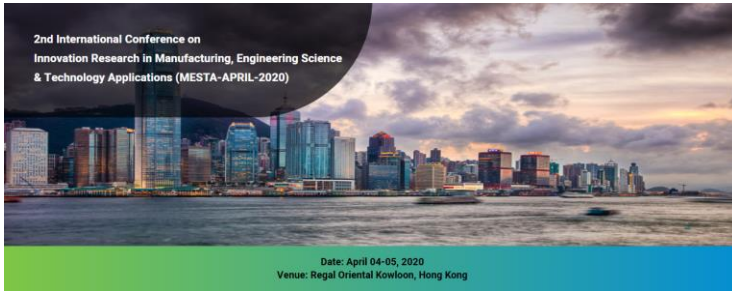
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CSR



Environment

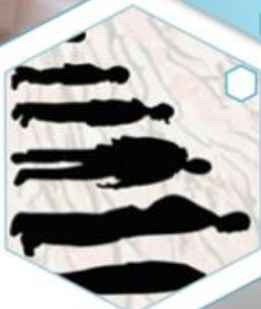
Charities

Public Health



Growth and
Development

Sustainability



CSR Activity Conducted By Global Illuminators: Sport Activation for Children against Negative Impact of Internet & Technology

In April 2016, Global Illuminators conducted Corporate Social Responsibility program together with Maestro and the Clover as Sport Facility Provider in Bandung, initiating an event with theme:



The Objectives of this event were:

1. Media of education for parents and children to be aware of digital new era and its impact on children's life
2. Facilitate and promote futsal as one of the kinds of sports activation that can be alternative activity for children against the negative impact of internet
3. Social activity and charity engaging orphans to enjoy sports activities together with their friends
4. Corporate Social Responsibility of Company to contribute to the society especially to solve one of the social problems in Bandung.

Highlights of CSR Activities are given below:



Global Illuminators Malaysia Team conducted its Latest CSR activity at Rumah Charis, Kuala Lumpur, Malaysia Children Home

Global Illuminators Malaysia Team conducted its latest CSR activity at Rumah Charis, Kuala Lumpur, Malaysia Children home. The children home ministry provides care for orphans and single parent children, their homes and activities aim to create a suitable environment to enable children to grow. They help to provide spiritual direction, education, and counselling for the children. Emphasis was given to fellowshiping and spending time with the children over refreshments, as well as presenting them with small gifts and the organizing of special entertainment programmes for the children such as a special game segment. One of the other highlights of the evening was the goodie bags distribution programme carried out by GI Social Sciences Forum



Global Illuminators Indonesian Team conducted its Latest CSR activity in Ramadan for Local Community Welfare, Sharing Happiness and developing Orphan Children

Global Illuminators Indonesian team conducted its latest CSR activity in Ramadan for orphans. The purpose of this activity was to give happiness and develop orphans with the support of more than 60 volunteers and distribute iftar to more than 400 beneficiaries (yateem, orphans, and dhuafa). GI Social Sciences Forum Indonesian team spent time with children and conducted different activities for their moral self-development.

Highlights of this activity are given below:





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