

4th INTERNATIONAL CONFERENCE ON "Innovative Trends in Multidisciplinary Academic Research - ITMAR-2017"

BOOK OF CONFERENCE *PROCEEDINGS*

4th International Conference on

ITMAR

(October 20-21, 2017)

Organized by:



Researching and Developing
for Humanity

4th International Conference on “Innovative Trends In Multidisciplinary Academic Resaech”(ITMAR- October 20-21, 2017)

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ITMAR 2017

Conference Proceeding

Book of Abstracts

**4th International Conference on
“ Innovative Trends in Multidisciplinary Academic
Research” (ITMAR- 2017)”**

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Editor:

Dr. Ahmad Saddam (Ph.D.)

Country Director (Global Illuminators Iraq)

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Conference Chair Message

Farooq Ahmed Jam (Ph.D.)



4th International Conference on “Innovation Trends In Multidisciplinary Academic Research” (ITMAR - 2017) 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 ITMAR Papers

For this year, ITMAR 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 policymakers and professionals and are reviewed on the basis of highly 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 ITMAR, all papers are judged on the same criteria (relevance, significance, originality, validity, and clarity). However, some criteria differ between the Research papers and the 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
46	24	7	15	52.7%

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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 ITMAR 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. Special thanks to Universitas Sembilanbelas November Indonesia for collaboration.

We thank everyone for their hard work and dedication to this conference, and we look forward to the latest episode of the ITMAR tradition.

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

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Keynote Speaker

Prof. Dr. Husaini, MPH



Professor. Dr. Husaini, MPH is a Senior Professor of Public Health Study Program, Faculty of Medicine at Lambung Mangkurat University, Indonesia. He graduated his Doctoral Program of Health and Medicine Science in Gadjah Mada University, Indonesia. He is one of the most famous scholars in public health field from Kalimantan area. His major research interests include case study and experimental research on the environmental health, occupational health, and health policy sectors. In a leadership role he is incharge of Master of Public Health Science Program on Lambung Mangkurat University, Indonesia. He is an active member of several profesional organizations such as Indonesian Public Health Union Kalimantan Selatan Region, and as an Executive Director of Center of Public Health Policy in Lambung Mangkurat University, Indonesia. He has delivered several seminars and conference lectures as a key note speaker and popular for his research contributions towards helping local community and local people of Indonesia specially in the field of public health. He is an active member of Global Illuminators family of scholars and playing his role to solve community problems through noval research solutions

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Business, Management, Economic, Social Sciences & Humanities

Husaini & Roselina Panghiyangani

Engineering and Technology Studies

Wei Chou Chang & Tariq Iqbal Khan

Health and Medicine Studies

M. Afzal Wani & Khalid Abdulbaki

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Editor

Dr. Ahmad Saddam (Ph.D.)

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CONFERENCE PROGRAM

DAY 01 Friday (October 20, 2017)

Welcome Reception & Registration

8:00 am – 8:30 am

Opening Ceremony (08:30 am –09:45 am)

Venue: Room 1

08:30 am – 08: 40 am	Welcome Remarks – Mr. Metin Gurani	Conference Coordinator ITMAR 2017 Global illuminators
08:40 am – 08:50 am	Opening Speech – Dr. Tariq Iqbal Khan (Ph.D.)	Conference Co-Chair- ITMAR-2017 Director Global Operations Global Illuminators
08:50 am – 09: 05am	Keynote Speech- Dr. Husaini	Professor of Public Health in Faculty of Medicine, Lambung Mangkurat University, Banjarbaru, Kalimantan Selatan, Indonesia
09:05 am - 09: 20am	Group Photo & Award Ceremony	

Grand Networking Session and Tea Break (09:20 am –09:45am)

DAY 01 Friday (October 20, 2017)

Session 1 (09:45 am – 11:00 am)

Venue: Room 1

Session Chairs: Husaini & Roselina Panghiyangani

Track: Business, Management, Economic, Social Sciences & Humanities

ITAMR-17-127	Modern Enchantment of Good Governance and Religion: An Islamic Peace Perspective	M. Afzal Wani
ITAMR-17-128	Survey Response Rates and Non-Response Bias in Cross-Cultural Survey Research	Nurnazirah Jamadin
ITAMR-17-134	A Note on the Simultaneous Test	Hyo-Il Park
ITMAR-17-148	A Study on Business Model of Social Enterprises in Malaysia	Muhammad Hussein Bin Abdullah
DSSHR-17-108	Removing the Veils of Caste from The Face of Islam in the Sub-Continent	Elaheh Ghasempour
DSSHR-17-109	From The Perspective of Humanitarian Care, Medical and Health Assistance Based on Public Health and Medical Education A 10 Years of Rooting Experiences in Solomon Islands	Yu Chau Lin

DAY 01 Friday (October 20, 2017)

Session 2 (11:00 am – 1:00 pm)

Venue: Room 1

Session Chairs: Wei Chou Chang & Tariq Iqbal Khan

Track: Engineering and Technology Studies

ITAMR-17-126	Multi-Copy Intersection-Based Routing Protocol for Vanets in Urban Areas	Mohamed H. Ahmed
ITAMR-17-144	Spatio-Temporal Change Detection For Monitoring the Dynamics of Coastal Change from Remote Sensing Imagery	Safaa M Bedawi
ITAMR-17-146	A Research on Relationships between Design and user in Hotel Buildings: Four Cases from Sultanahmet and Kadikoy in Istanbul	Sinem Karadaş
ITAMR-17-149	The Contribution of Multi-Agent Systems (Mas) in Reducing Retrieval Time in an Automated Storage and Retrieval System (As / Rs) with Gravitational	Imen Kouloughli,
ITMAR-17-147	Sit-To-Stand Motion Analysis For Nao Humanoid Robot	Fatma Göngör
ITAMR-17-150	Energy Saving Model for Wireless Sensor Networks: Sports Medical Application	Imen Kouloughli,

Lunch Break (1:00 pm – 2:00 pm)

DAY 01 Friday (October 20, 2017)

Workshop Session (2:00pm – 3:00 pm)

Venue: Room 1

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

Trainer	Dr. Muhammad Abbas (Ph.D.) 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.

DAY 01 Friday (October 20, 2017)

Session 3(3:00 pm – 4:00 pm)

Venue: Room 1

Session Chairs: M. Afzal Wani & Khalid Abdulbaki

Track: Health and Medicine Studies

ITAMR-17-102	UNICEF BF Aid and BSESF : Assessing Breastfeeding Behavior In Indonesian Context	Azniah Syam
ITAMR-17-132	The Establishment of Satpolkesmas (Municipal Police of Public Health) to Improve the Understanding and Skill of Students to Classify an Organic and Anorganic Waste	Husaini
ITAMR-17-133	Profile of Reproductive Hormones in Women Polycystic Ovary Syndrome Undergoing in-Vitro Fertilization Program	Roselina Panghiyangani

Closing Ceremony (4:00 pm – 4:30 pm)

LIST OF CONFERENCE ATTENDEE

The following scholars/practitioners/educationists don't have any paper presentations; however they will be attending the conference as delegates and observers.

ID	Name	Affiliation	Country
ITAMR-17-141b	Wafa Jawad Alakraa	Higher College of Technology	Oman
ITMAR-17-151	Byoung Young Choi	Yonsei University Wonju College of Medicine	Korea South

DAY 02 Saturday, (October 21, 2017)

“CITY TOUR”

**Gathering of Participants at the Lobby of Gönen hotel in Yenibosna,
Istanbul, Turkey at 2:00 pm**

Departure: 02:30 pm for City Tour

Drop Back at Gönen hotel in Yenibosna, Istanbul, Turkey, at 6:00 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 on day 1 of conference.



Global Illuminators

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TRACK A: BUSINESS MANAGEMENT & ECONOMIC STUDIES



A Note on the Simultaneous Test

Hyo-II Park*

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Abstract

In this research, we consider several test procedures for testing the mean and variance simultaneously under normality. First, we propose a likelihood ratio test. Then, by partitioning the likelihood ratio statistic for the simultaneous test into two individual statistics for testing partial hypotheses for the mean and variance separately, we propose another type of simultaneous tests using the combination functions. Then, we compare their efficiency by obtaining empirical powers through simulation study.

Keywords: Note, Test, Simultaneously

*All correspondence related to this article should be directed to Hyo-II Park, Chongju University, Chongju, Korea
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A Study on Business Model of Social Enterprises in Malaysia

Muhammad Hussein Bin Abdullah*

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Abstract

The purpose of this research is to study business model of social enterprises in Malaysia and contribution of the social enterprises to society. The main objective of this study is to study the role of social enterprise in empowering society, economy and environment. Methods The methodology adopted in this research is face-to-face structured in-depth interview with 10 selected social enterprises. Based on the data obtained, all the social enterprises have underlined their target markets and customer segments clearly. Each of the social enterprises practices different strategies on maintaining their customer relationship. The main resources for a business will be machines, offices, operational staff, management staff, distribution or logistic vehicles, computers and others. This study found social enterprises do have their own daily business activities. These activities are performed with the aid of technology assistance via website, apps and others. All the studied social enterprises stated that government agency, also management staffs and operational workers, customers, investor or sponsors as their key partners in their business. The major business costs are cost of manufacturing, cost of operation, utility and salary, cost of marketing and others whereas the sources of income will be sponsorship from private firm, seed fund from venture capital or angel investor, sales revenue and others. Conclusion From this study, it is notable that some social enterprises do not have alternative revenue stream to support their business during crisis. These social enterprises must design their revenue stream activities to ensure sustainability of their business. To develop the alternative revenue stream, social enterprises can apply business model canvas framework to generate ideas.

Keywords: Social Enterprise, Rural Community, Sustainability

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TRACK B: SOCIAL SCIENCES & HUMANITIES



Survey Response Rates and Non-Response Bias in Cross-Cultural Survey Research

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Abstract

Survey response rates have become main concerns for scientific researchers, practitioners, and survey methodologists when conducting a research. The aim of this descriptive research is to examine the response rates, response styles, and also non-response bias among teachers in East Malaysia (n=159). The survey questionnaire utilized several well-established instruments and it was designed by using Total Design Method (TDM). The results show that by improving questionnaire distribution strategies, 41 percent of returned response rate was achieved and a total of 70 percent of the survey questionnaires returned were valid. This study concludes that timing factor, incentive, and personal approach would improve the data collection period as well as the quality of data. Research on collectivist population requires extra effort by building relationship in order to get better cooperation from the target population. Cultural factor influences the data collection method as well as the quality of data.

Keywords: Response Rates, Non-Response Bias, Response Styles

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Removing the Veils of Caste from the Face of Islam in the Sub-Continent

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Abstract

India has always been an all-encompassing center of attention in the theological and cultural studies since it beholds a very diverse nation within its borders. Practicing Caste and the views on it are the most controversial topics in modern-day India. Some blame it on the teachings of Hinduism; some call it a colonial outcome; and yet many believe that it is, in fact, a social construct. The aim of bringing the faith to this region was to enlighten the people of East and the Far East with the ideas of peace, justice, brotherhood as well as a proper way of living. Due to many reasons, the concept of the Islamic Nation or “Ummah” has been touched by the native teachings of Hinduism which negate and question the actual Islamic principles and laws. The Islamic Nation in India has been parted to different classes and each class nowadays beholds one level of a hierarchy. Their rules and laws to keep the lower castes out of the political and economical scene found ways into the religious traditions so much that it has become hard to question it by the masses; the masses who are too uneducated to question their own heretical faith and traditions. But now that the world is rapidly evolving, the access to knowledge has evoked an awareness of many lower caste or “Dalit” Muslims. They no longer wish to be oppressed for their ethnicity or rootless principles of the old generations to guarantee the survival of the higher caste Muslims or “Ashrafs”. In recent years, many have stood against the rules of the caste system. As the oppressed no longer wishes to be oppressed, they also show acts of violence against the rulers who destined them the life they currently have. Since the teachings of the Quran and the Sunnah of the Prophet (PBUH) invite all Muslims to practice equality and brotherhood in the Ummah, this article would find the practical ways to abolish the caste system through the Islamic liturgical texts and traditions.

Keywords: Veils of Caste, Sub-Continent

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From the Perspective of Humanitarian Care, Medical and Health Assistance Based on Public Health, and Medical Education: 10 Years of Rooting Experiences in Solomon Islands

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⁵ Taiwan Health Centre in Solomin Islands, Taiwan

Abstract

Taiwan and Solomon Islands (SI) established diplomatic relations in 1985. Living in southern latitude nine degree country, due to poverty and lacking of resources, they can not have the essential right to health care and healthy environment. From the perspective of humanitarian care, we used the public health and medical education as the foundation to enhance the health of the people of the country. Based on public health, seven programs are planned for the United Nations sustainable development goals, including: Medical Service, Neglected Tropic Diseases (NTD), None Communicable Disease (NCD), Health Promotion, International Volunteer, Nursing Care & Infection Control, and Telemedicine. Dispatched senior physicians and mobile medical teams to assist in the development and management. The capacity building of human resource is targeted to diabetes mellitus, hypertension, tobacco, infection control, dengue fever, malaria, HIV, and school-aged child intestinal parasite prevention and treatment, and improving maternal and child health education and child nutrition. Since 2008, the KMUH team has sent more than 200 professional personnels to travel more than 100 times to SI, with more than 15,000 cases receiving medical service; the number of people receiving health education is 33,440; and 37 medical staff members went to Kaohsiung Medical University for training. The mobile medical team had been to every province and there were total 12 teams. Training NCD and parasite prevention seed teachers accumulated up to 447 people and trained 248 health care workers for Maternal and child health. According to the WHO report pointing out that in 2010-2013 maternal mortality rate (MM Ratio) from 1.25 per thousand per person to 1 per thousand; neonatal mortality rate from 30 per thousand live births to 10.6....(to be continued....)



(To be continued.....)

From our field survey, school-aged child parasite infection rate from 54.5% in 2009 dropped to 12.5% in 2016. The assistance meeting the local needs could improve effectively medical staff capability of medical care. In the future, we will continue the collaboration, not only because of the Agreement, but also for the people of SI. It is our hope that Solomon Islanders would stay healthy for all year round and achieve the goal of WHO-- Health for All.

Keywords: Public Health, Humanitarian Care, Health For All, Medical Education

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Modern Enchantment of Good Governance and Religion: An Islamic Peace Perspective

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Abstract

World over there has a huge demand for good governance to promote human dignity and fulfillment of genuine needs of people with fairness and parity. Though the use of technology has made governance a vibrant process, the Declaration on the Preparation of Societies for Life in Peace, 1978 is most relevant for determining its objectives and quality, i.e., promotion of peace in society through respect for equality and dignity for all. Every state must accept certain duties and responsibilities to protect life, liberty, and dignity of people living in it regardless of creed, caste, colour, and faith. All other International Instruments also primarily are a reflection of the same desire of one and all living on this planet Earth. Islam, in 7th Century AD, under the Prophet-hood of Hazrat Muhammad (SAW), propounded, for the people of the world, a people-centric fair system of governance (with specific perception, norms, and plan of action) mainly characterized by egalitarianism and denial of human 'gods' of all kinds. The system is based on the edifice of respect for whole humanity and rejection of privileges for few as superior to others only by birth, race, muscle or money. It proved a sound beginning of the advancement of human rights-oriented ascendancy which is now the most popular aspiration of the humanity across globe under the modern human rights movement. It recognized the right of people to good governance with their actual participation in power. Any denial of such participation results into unrest. Therefore, the theme needs to be deliberated upon in the context of prevailing unrest in many parts of the world. Some specific declarations of the Quran and the Prophet (SAW) would also be described regarding care of vulnerable groups.

Keywords: Good Governance, Religion, Islamic Peace

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TRACK C: ENGINEERING & TECHNOLOGY STUDIES



Multi-Copy Intersection-Based Routing Protocol for VANETs in Urban Areas

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Abstract

In this paper, we propose a new routing protocol called multi-copy intersection-based routing (MCIR) for vehicular ad-hoc networks (VANETs) in urban areas. MCIR is an intersection-based routing protocol that forwards multiple copies of the packets in different road segments. Moreover, it is a beacon-less routing protocol with a carry-and-forward strategy. We show via simulation that MCIR protocol is superior to other existing routing protocols, especially in low vehicular density scenarios. The results show that MCIR achieves a shorter end-to-end delay and a higher packet delivery ratio in urban VANET communications.

Keywords: Multi copy Intersection, Routing Protocol, Urban Areas

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Spatio-Temporal Change Detection for Monitoring the Dynamics of Coastal Change from Remote Sensing Imagery

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University of Waterloo, Canada

Abstract

In our research, we will focus on monitoring the coastal changes. There is a need for a change detection [1] tool with the availability of various types of remote sensing data ranging from the coarse daily acquired data from NASA's MODIS Satellite to the very high-resolution satellite data such as Quick Bird, GeoEye, Rapid Eye, EROS, etc. In this research, we propose a change detection algorithm based on object classification comparison. This method was applied to the very high spectral-low temporal resolution remote sensing data to address the first machine learning task. First, the data are segmented and classified using object-based classifiers [1] [2]. Random forest tree and Markov random field classifiers will be implemented using the spectral and spatial features. We propose adapting the Gaussian Process (GP) learning [3] as a time series change detection method to identify and predict the rate of change in coastal areas from coarse spectral-very high temporal resolution remote sensing images. GP models the spatial features in the high temporal remote sensing data. The GP is computationally expensive and to extend it for the analysis of high temporal data, we are going to examine few techniques to implement an efficient GP such as using 1) Toeplitz matrix and 2) clustering inputs that can be seen as a mixture of local and global approximations. The developed tool will be validated using the MODIS Satellite images and QuickBird Satellite images. The proposed tool will help in the detection of the coastal changes and will provide accurate prediction rate of such changes under the current rate of global warming. Coastal changes could cost the global economy \$1- trillion a year a few short decades from now. Vancouver is one of the cities most at-risk for losses [4]. This tool could help the government to plan ahead for efficient and economic ecofriendly solutions.

Keywords: Spatio-Temporal Change, Dynamics, Sensing Imagery

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A Research on Relationship between Design and user in Hotel Buildings: Four Cases from Sultanahmet and Kadıkoy in Istanbul

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Abstract

Hotel buildings, which were previously designed only to meet people's needs of accommodation and catering, nowadays have become buildings that also shelter different types of functions -such as grouping, meeting, celebrating, and exhibiting. This transformation has diversified profiles of hotel users and increased their number. It can be said that the design of such a multifunctional building has gained more importance than it used to have. Since hotels are mechanical structures that have to work for 24 hours, even the smallest renovations can cause obstacles for staff and create customer dissatisfaction. Hotels, which address different types of users, should be designed to meet the needs of all these types. In this context, this research examines the satisfaction of the users with the designs of 4 hotels selected from Sultanahmet and Kadıkoy of Istanbul. In the study, hotel managers, hotel staff, and guests are considered to be hotel users. 2 of the 4 hotels are located in Sultanahmet which is in the Historical Peninsula of Istanbul, and the other 2 are located in Kadıkoy which is one of the new centres of the city. In these 4 hotels, 92 randomly selected hotel users participated in a survey. There were 30 questions for the hotel managers, 21 questions for the staff, and 26 questions for the guests. In the context of the answers given to the questionnaires, the user preferences on the spatial conditions of the rooms, the user satisfaction levels for the design decisions of bedrooms, wet areas, out-room areas and off-site areas, and the user preferences of privacy are evaluated. In addition, the inadequate design decisions in the different units of these hotels are spotted; and, the design principles have been tried to be developed through the obtained user expectations.

Keywords: Hotel Design, Design-User Relations, User Satisfaction, Sultanahmet, Kadıkoy

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The Contribution of Multi-Agent Systems (Mas) in Reducing Retrieval Time in an Automated Storage and Retrieval System (As / Rs) with Gravitational

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²University of Nantes, France

Abstract

In this study the system (AS/RS with gravitational conveyor) is seen as a Multi-Agent System (MAS), where the produced agents are reactive agents that can interact to achieve a behavior (organizing the store). Our MAS is characterized by a decentralized control, which means that there is no preset plan. The produced agents exchange information, such as their color, their distance from the output station, etc. ..., about themselves. Each product merely applies a set of behavioral rules. This aims to choose the best product to be retrieved, in the shortest possible time. The product-type agents have no cognitive ability, but still perform complex tasks. The main objective of this work is to reduce the retrieval time of a list of products, by choosing, each time, the best combination of storage and retrieval rules. This is why we have implemented some storage rules in an Automated Storage/Retrieval System (Automated Storage and Retrieval System: AS/RS) fitted with a gravity conveyor. Some of these rules are dedicated to storage, the others to retrieval.

Keywords: AS/RS Fitted With Gravity Conveyor, Storage / Retrieval, Combination Of Rules, MAS, Retrieval Time

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Energy Saving Model for Wireless Sensor Networks: Sports Medical Application

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Hichem³**

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² University of Paris Descartes, France

³ University of Lorraine, France

Abstract

The present paper focuses first on small wireless sensor networks in the medical-sports field. A protocol solution is designed and dedicated to dynamic routing and energy saving. This solution called DREEM (Dynamic Routing Energy Efficient Model) consists of: A standby strategy, which we propose, and which allows extending the service life of the network, A locating algorithm called CTA (Closer Tracking Algorithm) used to locate the sensors based on the RSSI metric (Received Signal Strength Indication). To adopt this algorithm for our case study, some necessary modifications were carried out in order to determine the position the athlete was in, and based on that, it became possible to choose a topology that helps to apply the third algorithm of a routing protocol called ELQR (Energy and Link Quality Based Routing). The routing protocol ELQR in which the status of the link is taken into consideration. Note that in the routing tables, there is also one more column that is especially dedicated to the residual energy of neighboring nodes.

Keywords: Wireless Sensor Network (WSN); Wireless Body Area Network (WBAN); Dynamic Routing; Energy Saving

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Sit-To-Stand Motion Analysis for Nao Humanoid Robot

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² Yeditepe University

Abstract

Humanoid robots are extensively becoming an essential part of the social life and used to perform Human-Like behaviors such as walking, grasping, standing and sitting on objects. To generate Human-Like behaviors interactively using a humanoid robot, the desired behavior should be controlled to satisfy any potential interaction with the surrounding environment. This paper presents the development of the Sit to Stand (STS) motion analysis algorithm to generate and control autonomous Human-Like motion for a Humanoid robot to sit down and rise up from a chair. The proposed algorithm has two main stages. In the first stage, Horizontal distances are identified. Then, in the second stage Joint angle determination is obtained to determine sit to stand position for the robot. Although this algorithm can be implemented to all humanoid robots, in this research, it has been specifically applied to Nao humanoid robot. Results show that NAO humanoid robot is able to achieve halfway stand up from chair height between 9.5 and 11.3 cm automatically. The developed system will contribute to the evolution of humanoid robot. This system also enhances NAO's ability to determine the best chair selection..

Keywords: Center of Mass (CoM) estimation, Head-Arm-Torso system (HAT), horizontal distance identification, initial position identification, joint angle determination, NAO humanoid robot, Sit to Stand (STS) motion.

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TRACK D: HEALTH AND MEDICINE STUDIES



UNICEF BF Aid and BSESF : Assessing Breastfeeding Behavior in Indonesian Context

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Abstract

Breastfeeding behaviors are influenced by many external and internal factors. Self-efficacy supports the mother to face obstacles during breastfeeding practice. The objective of this research was to determine the relationship between early initiation of breastfeeding (Early-IBF) with breastfeeding performance and self-efficacy. This research employed analytic observational study design with prospective approach to 239 pregnant women selected based on cluster random sampling technique from June 2014 to January 2015 in coastal region in Bone District, South Sulawesi, Indonesia. Mothers were observed in 3 phases, namely: first, during labor to observe early initiation of breastfeeding practice; second, during 7-10 days post partum to assess breastfeeding quality with UNICEF BF Aid instrument with Cronbach's alpha of 0.92; third, during four weeks post partum to assess breastfeeding efficacy degree with Breastfeeding Self-Efficacy Short Form which had been translated into Indonesian Language with Cronbach's Alpha of 0.77. Independent T-test was used to analyze the data to see the difference of efficacy degree and breastfeeding quality between Early-IBF group and Delayed-IBF group. Mothers with Early-IBF breastfeed effectively and were more confident compared to mothers in Delayed-IBF. Early-IBF gave significant differences on mother's confidence and mastering basic technique that determine the breastfeeding quality.

Keywords: Breastfeeding Performance, BSESF, Early Initiation, Indonesia, Self-Efficacy, UNICEF BF Aid Instrument

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The Establishment of Satpolkesmas (Municipal Police of Public Health) to Improve the Understanding and Skill of Students to Classify an Organic and Inorganic Waste

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Abstract

The increasing of a population in Banjarbaru has a direct impact on increasing the waste of 2.4% which is the highest if compared to Banjarmasin (1.8%) and Martapura (1.7%). In 2008, the amount of waste in Banjarbaru was $\pm 2,000 \text{ m}^3/\text{day}$. A school was not only as an educational institution but also a place for the children to learn and apply the proper and useful waste management procedures. The findings in a situational analysis conducted in The Islamic School of Qardan Hasanah indicate that there were still many students who did not know about the correct waste classification so that an interesting method is needed to solve the problem such as regeneration method to establish The Satpolkesmas. According to the results of the pretest of the students, none got the value 0 and 20, and the value 40 of 3.4%, the value 60 of 3.4%, the value 80 of 10.3%, and the value 100 of 93.1%. According to the posttest results of the students, none got the score 0, 20, 40, and 80, the value 60 of 3.4%, and the value 100 of 96.5%. So based on the pre and post test results of the students, the average pretest value was 94.4% and posttest was 98.6%. So it can be concluded that there was an increase in knowledge of 4.2% before and after given education by Satpolkesmas on waste classification. The students showed also a positive response to the material which is delivered by participating in the material directions and volunteering for a discussion, being able to explain the material and willing to try separating and disposing of the waste directly according to the classification.

Keywords: Satpolkesmas, Waste, Students

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Profile of Reproductive Hormones in Women Polycystic Ovary Syndrome Undergoing in-Vitro Fertilization Program

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⁴ Malahayati University, Lampung, Indonesia.

Abstract

This study aims to determine the profile of the reproductive hormone levels and individual characteristics (age and Body Mass Index) of PCOS women undergoing in-vitro fertilization (IVF). The subjects are PCOS women aged from 30-40 years and women patients with the same age range and have a fertility problem, undergoing IVF but not PCOS. The mean age of subjects: 32.21 ± 0.99 years of PCOS group and 32.80 ± 0.516 years of non-PCOS group, unpaired t-test was not significantly different ($p > 0.05$). The mean of BMI: 24.425 ± 0.585 Kg/m² of PCOS group and 22.840 ± 0.494 Kg/m² of non-PCOS group, unpaired t-test result was significantly different ($p < 0.05$). The mean of basal FSH hormone levels: 5.715 ± 0.299 mIU/ml of PCOS group and 5.186 ± 1.033 mIU/ml of non-PCOS group, unpaired t-test was not significantly different ($p > 0.05$). The mean of basal LH hormone levels: 5.626 ± 1.444 mIU/ml of PCOS group and 6.234 ± 0.976 mIU/ml of non-PCOS group, unpaired t-test result was significantly different ($p < 0.05$). The median of basal prolactin hormone levels: 12.27 ng/ml of PCOS group and 15.98 ng /ml of non-PCOS group, Mann Whitney test was significantly different ($p < 0.05$). The mean of progesterone hormone levels: 2.133 ± 1.084 ng/ml of PCOS group and 0.740 ± 0.163 ng / ml of non-PCOS group, the unpaired t-test was not significantly different ($p > 0.05$). The mean of basal estrogen hormone levels: $28,033 \pm 5,254$ pg/ml of PCOS group and $1280,6 \pm 790,7$ pg/ml of non-PCOS group, unpaired t-test was significantly different ($p < 0.05$).(To be continued on page 59)



.....(To be continued from page 58)

The mean of female hormone AMH: 5.705 ± 1.092 ng/ml of PCOS group and 2.988 ± 0.793 ng/ml of non-PCOS group, unpaired t-test was significantly different ($p < 0.05$).

Keywords: Women Reproductive Hormone, Body Mass Index, Polycystic Ovary Syndrome

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Email: gtar@globalilluminators.org

Abstract Submission Date: February 20, 2018

Full Paper Submission Date: February 25, 2018

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Full Paper Submission Date: May 25, 2018

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- Multidisciplinary and Interdisciplinary Studies

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“Multidisciplinary Innovation In Academic Research”
(MIAR - 2018)



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Email: miar@globalilluminators.org

Abstract Submission Date: July 10, 2018

Full Paper Submission Date: July 15, 2018

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“Multidisciplinary Academic Research And Global Innovation ” (MARGI - 2018)



Date: August 24-25, 2018

Venue: Kuntai Hotel Beijing China

Email: margi@globalilluminators.org

Abstract Submission Date: July 25, 2018

Full Paper Submission Date: July 30, 2018

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Environment

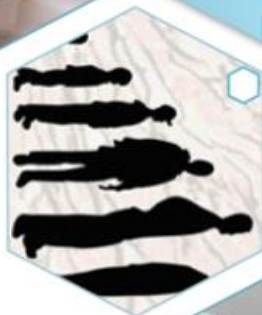
Charities

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 Global Illuminators.



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). Global Illuminators Indonesian team spent time with children and conducted different activities for their moral self-development.

Highlights of this activity are given below:





VISION

“Researching and Developing for Humanity”

MISSION

“Our mission is to persistently nurture the values to promote the human rights, institutional and academic development through quality research contributions. Our unique human capital with constructive attitude is committed to bring change in all spheres of life by using innovative research and intellectual skills. We are here to research and promote the development, prosperity and transparency across the globe without any discrimination”.

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