

**Geas**

GI Engineering, Technology, Applied Sciences Forum

**2023**  
**EIDAS**  
**ABSTRACT PROCEEDING**  
**BOOK**

**June 24-25, 2023**  
**Barcelona, Spain**

**5th International Conference  
on Engineering Challenges  
in IT, Design, Agriculture and  
Applied Sciences**

5th International Conference on  
Engineering Challenges in IT, Design, Agriculture and Applied Sciences  
(EIDAS-JUNE-2023)  
EIDAS© 2023 Barcelona, Spain  
GI Engineering, Technology, Applied Sciences Forum, Kuala Lumpur,  
Malaysia.



# **EIDAS 2023**

## **Conference Proceeding**

### **Book of Abstracts**

**5th International Conference on  
Engineering Challenges in IT, Design, Agriculture and  
Applied Sciences (EIDAS-JUNE-2023)**  
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Country Director (Global Illuminators Iraq)

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## TABLE OF CONTENTS

<b>EIDAS 2023 CONFERENCE ORGANIZING COMMITTEE.....</b>	<b>IV</b>
<b>CONFERENCE CHAIR MESSAGE.....</b>	<b>V</b>
<b>TYPE OF EASIT PAPERS.....</b>	<b>VII</b>
<b>REVIEWING CRITERIA .....</b>	<b>VII</b>
<b>ACKNOWLEDGMENT .....</b>	<b>IX</b>
<b>SCIENTIFIC REVIEW COMMITTEE .....</b>	<b>X</b>
<b>EIDAS 2023 TRACKS' CHAIRS.....</b>	<b>XIII</b>
<b>EIDAS 2023 CONFERENCE COMMITTEE.....</b>	<b>XIV</b>
<b>CONFERENCE PROGRAM .....</b>	<b>XV</b>
<b>TRACK A: BUSINESS MANAGEMENT &amp; ECONOMIC STUDIES 19</b>	
1. A REVIVAL ENGAGEMENT PROTECTS THE ENVIRONMENT: A STUDY OF ECO-SUFISM CONCEPT OF ISKANDAR WAWORUNTU .....	20
2. REMOTE INTERNAL AUDITING PROCESS AS A ONE OF KEY FACTORS FOF BUSSINES CONTINUITY .....	21
3. REMOTE CERTIFICATION AUDITING PROCESS IN UNCERTAIN TIMES .....	22
4. THE EFFECTS OF MOBILE SERVICE QUALITIES ON CUSTOMER REUSE INTENTION OF GOJEK SUPER APP .....	23
5. CLASSIFICATION OF AUTHOR'S ONLINE COMMUNITIES USING RNN BASED MODELS.....	24
6. A STUDY ON THE FORECASTING MODEL OF DELISTING COMPANIES BY FINANCIAL STATEMENT USING MACHINE LEARNING .....	25
7. THE EFFECT OF REGIONAL ECONOMIC INTEGRATION ON FOREIGN DIRECT INVESTMENT. STUDY CASES OF FIVE ASEAN COUNTRIES AND FIVE OUTSIDE ASEAN COUNTRIES IN THE PERIOD 2006 UNTIL 2016 .....	26
8. COMPUTER SCIENCE CREATES REASONABLE DOUBT .....	27
<b>TRACK B: COMPUTER, ENGINEERING, TECHNOLOGY &amp; APPLIED SCIENCES.....</b>	<b>28</b>

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9. GREEN SYNTHESIS OF GOLD NANOPARTICLES (GNPS) FROM DIFFERENT ALGAL SPECIES, AND THEIR POTENTIAL EFFECT ON THE GROWTH AND HYDROCARBON BIOREMEDIATION BY THERMOPHILIC HYDROCARBON- DEGRADING BACTERIA .....	29
10. FOCUSING ON ICT-MANAGEMENT – HOW TO USE PARTNERSHIPS .....	30
<b>FUTURE EVENT .....</b>	<b>31</b>
<b>CSR .....</b>	<b>33</b>

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## **Conference Chair Message**

**Farooq Ahmed Jam (Ph.D.)**



5th International Conference on Engineering Challenges in IT, Design, Agriculture and Applied Sciences (EIDAS-JUNE-2023) 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 EASIT Papers**

For this year, ITEAS 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 EIDAS, 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
15	13	03	02	62.5%

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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 EIDAS 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 EIDAS tradition.

Farooq Ahmed Jam (Ph.D.), Tariq Iqbal Khan (Ph.D.)  
And Muhammad Abbas ( Ph.D.)  
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## **EIDAS 2023 Tracks' Chairs**

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**Engineering, Techonology, Computer and Applied  
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# CONFERENCE PROGRAM

**DAY 01 Saturday (June 24, 2023)**

**Welcome Reception & Registration**

**9:00 am – 09:30 am**

09:30 am – 09:40 am	Opening Speech – <b>Confearnce Coordinator</b> Coordinator, Global Illuminators
09:40 am – 10:00 am	Group Photo & Award Ceremony

**Grand Networking Session and Tea Break (10:00 am – 10:30 am)**

**DAY 01 Saturday (June 24, 2023)**

**Session 1 (10:30 am – 12:00 pm)**

**Venue: Room 1**

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

<b>GISSPBM-23-101</b>	A Revival Engagement Protects The Environment: A Study of Eco-Sufism Concept of Iskandar Waworuntu	Suheri
<b>GISSPBM-23-105</b>	Remote Internal Auditing Process as a One Of Key Factors FOF Bussines Continuity	Paweł Nowicki
<b>GISSPBM-23-106</b>	Remote Certification Auditing Process In Uncertain Times	Piotr Kafel

**Track B: Engineering, Technology and Applied Studies**

<b>EIDAS-23-101</b>	Focusing on ICT-Management – How to Use Partnerships	Seppo Sirkemaa
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**Lunch Break (12:00 pm – 01:00 pm)**

**DAY 01 Saturday (June 24, 2023)**  
**Session II (01:00 pm – 03:30 pm)**

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

<b>GISSPBM-23-108</b>	The Effects of Mobile Service Qualities on Customer Reuse Intention of Gojek Super App	Adisthy Shabrina Nurqamarani & Andi Indrawati
<b>GISSPBM-23-109</b>	Computer Science Creates Reasonable Doubt	Tony Zipp
<b>GISSPBM-23-110</b>	The Effect of Regional Economic Integration on Foreign Direct Investment. Study Cases of Five ASEAN countries and Five outside ASEAN countries in the period 2006 until 2016.	Raihan Imaduddin Rahmat & Quieska Kenya Wicaksono
<b>GISSPBM-23-111</b>	Classification of Author's Online Communities Using RNN based Models	Sojung Kim & Geonhyeong Lee
<b>GISSPBM-23-112</b>	A Study on the Forecasting Model of Delisting Companies by Financial Statement Using Machine Learning	Hyung-Ju Seon

## **DAY 02 Sunday, (June 25, 2023)** **“CITY TOUR”**

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: BUSINESS MANAGEMENT & ECONOMIC STUDIES**

## A Revival Engagement Protects The Environment: A Study of Eco-Sufism Concept of Iskandar Waworuntu

**Suheri**

Gadjah Mada University, Indonesia

### Abstract

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Climate change is an example of the problematic relationship between humans and nature. So we can consider that natural phenomena such as the earth's warming temperature, increasing sea levels, floods, and long drought, are certainties in the dark history of modern humans. Adaptation and preventive actions are an obligation in facing this challenge. One of the figures who tried to restore the relationship between humans and nature suitable with Fitrah was Iskandar Waworuntu. He has practiced the concepts of ecoSufism in his daily life to become live-action, and he also established Bumi Langit Institute as a real place in the relationship between humans and nature, which brings a new perspective on building environmental ethics. This research examines how the paradigm building in Bumi Langit Institute concerns eco-Sufism values, where tries to provide a place to learn to become a real caliph as Allah's task has given to continue to actualize God's blessing for all the universe (Rahmatan Lil Alamain). This study uses an in-depth interview to extract data, supplemented by writings or videos related to Mr. Iskandar. Then data management used a descriptiveanalytical method. The result shows three big points regarding the concept of eco-Sufism that he practices, including 1) The notions of Khalifah Fil Ardh as External Ecosystem, 2) The Ideas of Sunatullah, 3) Halal Food and Thayyib as Internal Ecosystem.

**Keywords:** Ecology Environmental Ethics Eco-Sufism Halal Food Climate Change.

---

\*All correspondence related to this article should be directed to Suheri, Gadjah Mada University, Indonesia

## Remote Internal Auditing Process as a One of Key Factors FOF Bussines Continuity

**Pawel Nowicki\*<sup>1</sup>, Piotr Kafel<sup>2</sup>**

<sup>1,2</sup>The Department of Quality Management, Institute of Quality Sciences and Product Management, Cracow University of Economics, Cracow, Poland

### Abstract

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The COVID-19 pandemic has had a significant impact on voluntary standards certification and audit services. The traditional on-site approach to auditing and certification has been greatly reduced. It is well known that the results of the audit can be used both in the obligatory area, such as the conformity assessment of products (CE mark), and in the voluntary area. Regardless of the area in which auditing is used, one of its most basic assumptions is to ensure that all stakeholders have confidence in its results. On the other hand, taking into account the stages of the internal audit process and the possibility of using remote techniques, it can be assumed that the most sensitive stage is the stage of determining the properties. The submission of the application or the review and decision activities are elements that can be performed through standard communication channels, e.g. by regular mail or e-mail, or are activities that can be entirely performed at the certification body. The stage of determining the properties by auditing the management system or assessing production processes is much more difficult to assess at a distance. This does not mean that it is not possible. On the other hand, the elements of product testing (eg product taste and aroma assessment) or inspection may not be feasible remotely. The results of research conducted in Poland in 2021 on the conduct and effectiveness of remote internal audits during the COVID-19 pandemic will be shown in this presentation. The main results obtained during the research are information that remote audits have significantly contributed to maintain business continuity and confirmed the significantly high effectiveness of such audits.

**Keywords:** Remote Audits, Internal Audits, Management Systems, Business Continuity.

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\*All correspondence related to this article should be directed to Pawel Nowicki, The Department of Quality Management, Institute of Quality Sciences and Product Management, Cracow University of Economics, Cracow, Poland

## Remote Certification Auditing Process In Uncertain Times

**Piotr Kafel\*<sup>1</sup>, Pawel Nowicki<sup>2</sup>**

<sup>1,2</sup>The Department of Quality Management, Institute of Quality Sciences and Product Management, Cracow University of Economics, Cracow, Poland

### Abstract

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The COVID-19 pandemic has had a significant impact on voluntary and obligatory standards certification and audit services. The traditional on-site approach to auditing and certification has been greatly reduced. The research goal was to investigate the impact of the pandemic on the certification process and the organization of external audits. In particular, the purpose of the study was to check how the necessity of the restriction of personal contacts has affected the organization of audits by certification bodies. The research was conducted in Poland in 2021 on a sample of 205 organizations with at least one certified management system, such as ISO 9001 quality management system. The main results confirm that despite the pandemic, both the audited organizations and certifying bodies preferred to conduct audits on-site. There are some benefits of remote activities such as cost reduction or a more flexible process of planning, but still, for future collaboration on-site audits method is preferable.

**Keywords:** Remote Audits, External Audits, Management Systems, Certification, ISO 9001

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\*All correspondence related to this article should be directed to Piotr Kafel, The Department of Quality Management, Institute of Quality Sciences and Product Management, Cracow University of Economics, Cracow, Poland

## The Effects of Mobile Service Qualities on Customer Reuse Intention of Gojek Super App

Adisthy Shabrina Nurqamarani<sup>1\*</sup>, LCA Robin Jonathan<sup>2</sup>,  
Elvyani NH Gaffar<sup>3</sup>, Andi Indrawati<sup>4</sup>

<sup>1,3,4</sup> University of 17 Agustus 1945 Samarinda, Indonesia,

<sup>2</sup> Mulawarman University, Indonesia

### Abstract

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The trend of mobile application has altered the way business operates. Importance of mobile application arises because of massive increase of users utilizing internet on mobile phone for various things. Gojek is the first super app in the world at once the first “decacorn” company in Indonesia. As Gojek develops a super app, it requires Gojek to have developed systems in order to reach their goals in increasing customer satisfaction and maintaining customer reuse intention. Understanding factors affecting reuse intention of an app is necessary for the companies. This study determines the dimensions of mobile service quality and their effect on customer reuse intention. In this study, we determine the dimensions of mobile service quality and their effect on satisfaction and re-intention to use. We also examine most dominant factor influence the customer satisfaction and reuse intention to use.

**Keywords:** mobile service quality, customer satisfaction, repurchase intention.

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\*All correspondence related to this article should be directed to Adisthy Shabrina Nurqamarani, University of 17 Agustus 1945 Samarinda, Indonesia

## Classification of Author's Online Communities Using RNN based Models

**Sojung Kim<sup>1</sup>, Geonhyeong Lee<sup>2</sup>, Zoonky Lee<sup>3\*</sup>**

<sup>1,2,3</sup> Graduate School of information, Yonsei University, Seoul, Korea

### Abstract

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Unlike the past when people communicated with each other through face-to-face interaction, cyber space has become an important place for social interaction as information technology has developed. Those social groups which emerge within the Internet space, such as Internet clubs and cafes, are called Internet communities. According to a prior study, it can be said that collective identities formed by Internet communities affect users' language patterns and personal identities. Therefore, we assumed that the topics or the tone and manner of postings written by a person in the online space will vary depending on the online community to which the user belongs to. Based on these assumptions, we selected three Korean online communities and conducted a study which classifies the online communities where people belong to, based on the postings they left online by using some RNN based models. The model which performs best derived through hyperparameter tuning was 2-layer biLSTM model with the accuracy of 75.9%. In this study, due to constraints on data collection and preprocessing, postings only about political issues in three communities were analyzed. Expanding this study will give you extensive information on individual characteristics and values. It could be expected to be used in target marketing or digital forensics.

**Keywords:** Classification, Deep learning, Natural Language Processing, Online Community.

---

\*All correspondence related to this article should be directed to Zoonky Lee, Professor, Graduate School of information, Yonsei University, Seoul, Korea

## A Study on the Forecasting Model of Delisting Companies by Financial Statement Using Machine Learning

**Hyung-Ju Seon<sup>1\*</sup>, Gun-Hyung Lee<sup>2</sup>, So-Jung Kim<sup>3</sup>**  
<sup>1,2,3</sup> Graduate School of Information, Yonsei University, Seoul, Korea

### Abstract

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This paper deals with a model for predicting companies to abolish listing based on financial statements. In this work, we used the financial statements of 200 listed and de-listed firms respectively. Since there is not much data from a delisted firm, we used a variety of variable selection method and observed the model's performance for each case.

**Keywords:** Financial analysis, Failure prediction, Support-Vector Machine, Random-Forest, Neural Network.

---

\*All correspondence related to this article should be directed to Hyung-Ju Seon, Graduate School of Information, Yonsei University, Seoul, Korea

## The Effect of Regional Economic Integration on Foreign Direct Investment. Study Cases of Five ASEAN countries and Five outside ASEAN countries in the period 2006 until 2016

**Raihan Imaduddin Rahmat<sup>1\*</sup>, Quieska Kenya Wicaksono<sup>2</sup>**  
<sup>1,2</sup> Parahyangan Catholic University, Bandung City, Indonesia

### Abstract

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Foreign direct investment (FDI) has become the main focus study in international trade activities, especially for countries that are members of regional economic integration. This study wants to see the effect of regional economic integration on foreign direct investment in five ASEAN countries which is a member of regional economic integration (Indonesia, Malaysia, Singapore, Thailand, Philippines) and five countries outside ASEAN (China, Japan, South Korea, India, Israel) from 2006 until 2016 period. This research using panel data of export, GDP (Gross Domestic Product), exchange rate, and taxes on international trade. The data were analyzed using panel least squares (PLS) in regression analysis for five ASEAN countries and five countries outside ASEAN. This study also wants to see the effect of export value, GDP (Gross Domestic Product), exchange rate, and taxes on international trade can influence investors' decisions to carry out foreign direct investment activities. The results of this study will be considered to determine strategies and policies to influence more investors to carry out FDI in a country.

**Keywords:** Foreign Direct Investment, Integration Regional Economic.

---

\*All correspondence related to this article should be directed to Raihan Imaduddin Rahmat, Parahyangan Catholic University, Bandung City, Indonesia

## Computer Science Creates Reasonable Doubt

**Tony Zipp\***

1533 Patchett Road Quesnel, B. C., Canada

### Abstract

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This paper focuses on the intersection and cooperation between computer science and criminal law. It highlights the importance of HASH values, GUID numbers and user registries in either establishing possession at law or creating a reasonable doubt. This traces the beginning of a criminal investigation based on files with specific HASH values designated as illegal content being downloaded to a specific IP address which caused a search warrant to be issued for the seizure of electronic devices, the arrest of the computer user and prosecution of him for possessing and distributing illegal material. From his perspective, he was steadfast that he had no knowledge of the material on his system. He had encountered significant difficulties with his system and suspected hacking or malware but had no definitive proof of that. The paper illustrates how a computer science professor provided expert evidence at trial based on anecdotal, field study and literature review to establish the ubiquity of malware and hacking to invade the systems of unsuspecting shareware users and store illegal materials. Significantly, the professor noted the presence of two distinct file sharing programs which the prosecution was unable to explain and thus give credibility to the user's consistent statement that he had no knowledge of the presence of the offending material on his system.

**Keywords:** Reasonable Doubt.

---

\*All correspondence related to this article should be directed to Tony Zipp, 1533 Patchett Road Quesnel, B. C., Canada

## **TRACK B: COMPUTER, ENGINEERING, TECHNOLOGY & APPLIED SCIENCES**

## Green Synthesis of Gold Nanoparticles (GNPs) from Different Algal Species, and Their Potential Effect on the Growth and Hydrocarbon Bioremediation by Thermophilic Hydrocarbon-Degrading Bacteria

Nedaa Ali Alsarraf<sup>1\*</sup>, Dalia Tareq<sup>2</sup>  
<sup>1,2</sup> Kuwait University, Kuwait

### Abstract

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Hydrocarbon pollution is a significant concern confronting our environment today. Bioremediation is one of the most effective methods for removing environmental pollutants. The research community has been examining potential strategies for enhancing bioremediation. One of these strategies is the use of nanoparticles. The purpose of this study is to determine whether green synthesized gold nanoparticles (GNPs) from various algal species isolated in Kuwait can aid in the bioremediation of hydrocarbons using previously isolated thermophilic hydrocarbon-degrading bacteria (indigenous to oil-contaminated soil in Kuwait). The tested isolates are *Geobacillus subterraneus* strain 34, *Geobacillus thermodenitrificans* strain R-35647, *Brevibacillus thermoruber* DSM 7064, and *Bacillus altitudinis* 41KF2b. The effect of GNPs on bioremediation was investigated in terms of the effect of the synthesized GNPs on the growth, and oil consumption efficiency of these bacterial isolates. Green synthesized GNPs characteristics were determined using UV-vis, XPS, and TEM analyses. At low GNPs concentrations, insignificant enhancement of growth was observed with the majority of the tested strains. On the other hand, at concentrations greater than 2 mM, growth inhibition was detected, and this inhibition was statistically significant. As for the effect of GNPs on oil consumption, the only statistically significant enhancement of oil consumption was detected with *G. subterraneus* at 0.25 mM with a 31.95% increase. For *G. thermodenitrificans*, all GNPs concentrations inhibited growth and oil consumption. It appears that the smaller, spherical GNPs might enhance growth and oil consumption of thermophilic hydrocarbon-degrading bacteria, while the larger, hexagonal GNPs inhibited their growth.

**Keywords:** Bioremediation, gold nanoparticles, thermophiles, oil degradation

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\*All correspondence related to this article should be directed to Nedaa Ali Alsarraf., Kuwait University, kuwait

## Focusing on ICT-Management – How to use Partnerships

**Seppo Sirkemaa\***

Turku School of Economics at the University of Turku, Pori Unit,  
Finland

Abstract

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This article looks at ICT-management and the challenge of developing systems and infrastructures that functions as a reliable basis for business activities and processes. In many cases resources are limited and there is a need for outside expertise and partnerships with providers of ICT-related services and technologies. The views expressed in this article are based on empirical notions from environment where several critical systems and technologies are brought together in an organizational merger. In this setting ICT-management is pressured to integrate and harmonize different types of systems and technologies. It has been noticed that expertise in management, development and maintenance are critical success factors.

**Keywords:** ICT-Management, Partnership, Outsourcing

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## **FUTURE EVENT**

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# CSR



Charities

Environment

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.

**ighlights 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 fellowshipping 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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