

CONFERENCE BOOK OF ABSTRACT PROCEEDING

 Chinese Foundation for
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Venue: Shanghai Ever Bright Convention Exhibition Centre
International Hotel Shanghai, China
Date: November 25-26, 2017

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Book of Abstracts Proceedings

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CONFERENCE TRACKS

- Social and Community Studies
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- Organizational Studies
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- Interdisciplinary
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- Paramedical Sciences
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- Biological and Life sciences
- Veterinary Medicine and Sciences
- Food Science & Nutrition
- Agricultural sciences
- Interdisciplinary

CONFERENCE CHAIR MESSAGE

Dr. Vincent

“International Conference of Akademika Nusa Internasional” is a platform that thrives to support the worldwide scholarly community to analyze the role played by the multidisciplinary innovations for the betterment of human societies. It also encourages academicians, practitioners, scientists, and scholars from various disciplines to come together and share their ideas about how they can make all the disciplines interact in an innovative way and to sort out the way to minimize the effect of challenges faced by the society. All the research work presented in this conference is truly exceptional, promising, and effective. These researches are designed to target the challenges that are faced by various sub-domains of the social sciences, business and economics, applied sciences, engineering and technology, health and medical sciences.

I would like to thank our honorable scientific and review committee for giving their precious time to the review process covering the papers presented in this conference. I am also highly obliged to the participants for being a part of our efforts to promote knowledge sharing and learning. We as scholars make an integral part of the leading educated class of the society that is responsible for benefitting the society with their knowledge. Let’s get over all sorts of discrimination and take a look at the wider picture. Let’s work together for the welfare of humanity for making the world a harmonious place to live and making it flourish in every aspect. Stay blessed.

Thank you.

Dr. Vincent

Conference Chair

Email: Conferencechair.ani@gmail.com

CONFERENCE SECHDULE

CFAR-AF-2017

Venue:Shanghai Everbright Convention Exhibition Centre International Hotel

Time: Registration & Kit Distribution (09:00 - 09:30 am)

Day: Saturday

Date: November 25, 2017

Venue: Room 1

09:30 am - 09:40 am	Introduction of Participants
09:40 am - 09:50 am	Inauguration and Opening address
09:50 am - 10:00 am	Grand Networking Session

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

DAY 01 Tuesday (November 25, 2017)

First Presentation Session (10:30 am - 12:00 pm)

Venue: Room 1

Session Chair: Zhu Zhiwei

Track A:Engineering, Technology& Applied Sciences

Presenter Name	Manuscript Title	Paper ID
Chenn-Jung Huang	An Intelligent Energy Management System for Renewables-based Virtual Power Plant	SHE-3117-101
Hongin, Cheng	Digital musical therapy system development for the mild cognitive impaired elderly	SHE-3117-102
Haegoo Lee	Digital musical therapy system development for the mild cognitive impaired elderly	SHE-3117-102A
Eunbin Choi	Setup box design for the mild cognitive impaired seniors	SHE-3117-103A
Soobin Jung	Setup box design for the mild cognitive impaired seniors	SHE-3117-103B

Track B:Business Management and Social Sciences

Shak Bernard Hanish	The Kurdish Referendum in Iraq: An Assessment	IGESH-NOV-SC111
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Lunch Break & Ending Note: (12:00 pm - 01:00 pm)

Conference Day 02 (November 26, 2017)

Second day of conference will be specified for touristy. Relevant expenses are borne by Individual him/herself.

TRACK A
ENGINEERING, TECHNOLOGY & APPLIED SCIENCES

An Intelligent Energy Management System for Renewables-based Virtual Power Plant

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³Kai-Wen Hu,⁴Chao-Yang Deng

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Keywords: Virtual power plant, Renewables, Energy management, Data mining, Optimization

With the rapid development of the emerging technologies and significant cost reduction of the deployment for solar energy and wind power, the replacement of traditional power generation by renewable energy becomes feasible in the future. However, different from currently deployed centralized power sources, renewables are categorized as one kind of intermittent energy sources, and the scale of renewables is small and scattered. In the recent literature, the architecture of virtual power plant was proposed to replace the current smart grid in the future. However, the energy sharing concept and the uncertainties of intermittent energy sources will cause the short-term energy management for the future virtual power plant much more complicated than current centralized control energy management for traditional power generation system. To the best of our knowledge, no researcher has addressed on the above-mentioned short-term energy management problems for the future virtual power plant so far. Accordingly, a hierarchical day-ahead energy management system based on the architecture of virtual power plant is proposed in this work to tackle the complex energy management problems. We first collect electricity consumption data from smart appliances used in households and predict power-generating capacity of renewable energy sources at the prosumer level. Then, the proposed hierarchical energy management system is employed to schedule the usage of electricity for the customers by considering the efficiency of the use of distributed renewables. Notably, a reallocation mechanism is presented in this work to allocate excess electricity generated in a community virtual power plant to others facing with power supply shortage, and the maximal usage of renewables and reduction of the burden on community virtual power plants during time period of peak load can be achieved accordingly. The experimental results show that the hierarchical day-ahead energy management system proposed in this work can mitigate the dependency on community virtual power plants effectively, and balance peak and off-peak period load of electricity market.

Setup Box Design for the Mild Cognitive Impaired Seniors

* Haegoo Lee, ² Byungyong Min

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Keywords: Mild Cognitive Impaired Seniors, Preference Survey, Product Design

A preference survey was conducted to decide the main body design of a digital musical therapy device for the elderly with mild cognitive impairment. 60 senior patients of neurology participated in the survey. The device would be connected to TV and digital musical instruments. The target users are seniors aged over 65 with presbyopia and mild impaired cognition. The survey questionnaire was composed with 4 questions about the shape, size, color and texture of the setup box. Mockups were prepared by using 3D printer for the survey and the participants just selected which mockup is most preferred. We observed significantly different preference for the shape. 35 and 18 percent of the participants indicated they liked spherical and doggy setup box respectively. Seniors showed significantly different selection for the size. 32 and 22 percent of the respondents selected 20cm20cm20cm and 25cm25cm25cm size respectively. We expected smaller sized mockups would be selected for the setup box. The elderly preferred green and blue colors to red color. 20 percent of the potential users chosen plastic texture for the device skin. They might like familiar tactility. It would be concluded the senior users would pick simple and familiar product design.

Digital Musical Therapy system Development for the mild Cognitive Impaired elderly

^{1*} Hongin, Cheng, ² Hong-In Cheng

³ Sooji Jang, ⁴ Haegoo Lee

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Keywords: Mild Cognitive Impairment, Musical Therapy, Usability Engineering Lifecycle

We are developing a digital music therapy system activating the brain functions for Korean seniors especially for the cognitively impaired seniors. The system is mainly composed with a set-top box and two digital musical instruments. The set-top box is main body connecting TV and the musical instruments. The usability engineering lifecycle, composed with requirement analysis, design, testing, development, and installation, was employed to design the user interface of the system. Music therapy classes were recorded and analyzed to understand the elderly with mild cognitive impairment (MCI). The classes have been offered for the local senior residents. Usability goals were setup based on the results of the observation. Basic operation methods and process of the musical instrument were also planned after analyzing the music therapy class videos. Mild cognitive impaired and normal senior citizens were not significantly discriminated in their behavior and cognitive ability. We assume the target users could hold 32 visual objects and words in their working memory. User interface consists of 3 4 components for easy operation. Correct and incorrect operation of the musical instrument was evaluated considering seniors ability to play beats. Live video was designed to be recorded optionally when the score is ranked in the top five. We also prepared a system showing the actual age by assessing users music play. In this study, the video analysis and some parts of UI/UX design processes to design are presented

TRACK B

BUSINESS MANAGEMENT SOCIAL SCIENCE AND HUMANITIES

The Kurdish Referendum in Iraq: An Assessment

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Keywords: Kurds, Iraq, The Middle East, Nationality Problem

The Kurdish issue in Iraq is one of the most complex issues in a multi-national state of Iraq. The Iraqi state that was built on the concept of Arab nationalism has reinforced the concepts of chauvinism toward non-Arab ethnic groups. This policy led to historical struggle of the Kurdish people to gain their rights, which eventually lead to a referendum for independence in the Iraqi Kurdistan region. In my paper, I will discuss the current situation in northern Iraq, going back to the creation of modern state of Iraq and its policies toward the Kurds. I will specifically speak about the post-2003 regime in Iraq and its 2005 construction. I will assess the current relationship between the federal government in Baghdad and the regional government in Iraqi Kurdistan. Then I will discuss the reasons behind the referendum, the worlds reaction, and see if it is legitimate and practical to have such move for session.

Developing a Sustainable Neighbourhood Design Framework throughout Bees Habitat and Behaviour from the Holy Quran

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Keywords: Sustainable Design, Neighbourhood, Bees Habitat, Biomimicry

The concept of sustainable environmental could be in disagreement to a fundamental clarity of designing a vibrant neighbourhood design for a community place. Therefore, our environment change uninterrupted and considerably in a more or less disordered way and reflect social and economic. Worthlessly, it is t many sudden and complete transformations caused by natural disruption and human action. Henceforth, a good concept of sustainable environment should also be derived from the Islamic value as provides a holistic way of life. The research objective is to develop a new concept of sustainable environment for neighbourhood design through systems via simulation of the Quranic verses on the habitats of bee. The chapter of An-Nahl, verse 68-69 of the Quran on the habitats of the bee will derived to develop component sustainable environment ecology for neighbourhood area. This paper used a qualitative approach. The content analysis is applied in this research to analyse contextualisation of quran and its tafseer of the Ibnu Kathir with inherent of sustainable habitat design. The Quran portrays the socio-ecological, behavioural and spatial dimensions the three insects' habitats. Simulation of the Quranic Verses & Principles of Islamic will be drawn from the habitats from the bee. It also supports sustainable environment of neighbourhood preserve of the ecosystem, low carbon, social responsibility, low crimes, security and safety, comprehensiveness and respect for human rights and solemnity

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