Conference Program & Abstract

Bandung, Indonesia
06-08 March 2020

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2020 IPN CONFERENCES BANDUNG, INDONESIA

BANDUNG, INDONESIA
06-08 MARCH 2020

Welcome to IPN Conferences 2020

Dear Professor, Dr and distinguished delegates,

Welcome to the IPN Conferences 2020 in Bandung, Indonesia. On behalf of ***IPN Education Group Indonesia***, I would like to thank all the Conference Chair, Program Chairs and the Technical Committees. Their high competence and professional advice enable us to prepare the high-quality programs. For the participants, we hope all of you have a wonderful time at the conference and also in Bandung, Indonesia.

We believe that by this excellent conference, you can get more opportunities for further communication with researchers and practitioners. For the conferences of **ICEMIE 2020, ICABE 2020 and ICAEP 2020** more than 40 submitted papers have been received and 25 papers have been accepted and published finally.

In order to hold more professional and significant international conferences, your suggestions are warmly welcomed. And we are looking forward to meet you again next time.

Best Regards,
Thank you.

Yours Sincerely,

Datin MZ Zainab
Director – Conference Management IPN Education Group Indonesia
Chairman, IPN Conferences 2020 Bandung, Indonesia

Message from IPN Honorary Advisor

On behalf the IPN Education Group Indonesia, it is my privilege to welcome you to the IPN Conferences Bandung, Indonesia 2020. IPN Education Group Indonesia is an independent, non-political, non-governmental organization of distinguished scientists dedicated to advancing science around the world. We aim to help scientists and researchers to publish their findings in scientific journals and to promote and help to organize worldwide conferences. We believe that has no boundaries, regardless of the great distances between countries and continents. Thus IPN Education Group Indonesia welcomes contributions from researchers from all concern irrespective to the race, colour, religion and nationality.

Best Regards

Prof. Dr. Abdel Rahman Mohammad Said Al Tawaha
Honorary Advisor IPN Education Group Indonesia
IPN Conferences 2020 Bandung, Indonesia

About IPN Education Group Indonesia

The IPN Education Group Indonesia is a non-profit international association dedicated to the promotion of international education and university cooperation in the field of Business, Art, Social Science, Management, Education, Science, Technology, Engineering and any other related field.

Through the organization of different international events, it brings together institutions, bodies and organizations from different countries of the world for discussion and cooperation IPN Education Group Indonesia Mission is to promote and enhance the dialogue in education among the institutions devoted to field mentioned above through:

- Promotion of best practice standards in the service of international education.
- The facilitation of relevant forums, training and information exchange.
- Creation and dissemination of knowledge; exert an influence in public policy.
- Production of publications used as a database document for research works, projects and innovation activities held on the international education field.

IPN Education Group Indonesia believes that this is best achieved through international cooperation and promotes the development of closer links among relevant institutions and individuals around the world. IPN Education Group Indonesia supports that such international cooperation can help countries learn from each other and promotes the dissemination of scientific and engineering activities. IPN Indonesia Group Indonesia intends to achieve the mentioned objectives and get an international visibility by the organization of international conferences and by interacting with public and private organisms from all parts of the world.

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www.ipneducationgroup.org
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ANNOUNCEMENT

All accepted papers will be published in:

- Active Scopus Indexed Journal
- ESCI Journal
- Active ERA Journal
- International Journal of Business and Globalisation (IJBG)M (EISSN: 1753-3635/ISSN: 1753-3627)
- Chemical Engineering Transactions (CET) (Issn: 2283-9216)
- Journal of Industrial Engineering Research (JIER) (ISSN:2077-4559) (International Indexed Journal)
- Science International Journal (SI) ISSN: 1013-5316 (Google Scholar)
- Journal of Asian Scientific Research EISSN: 2223-1331, ISSN: 2226-5724
- International Journal of Asian Social Science EISSN: 2224-4441 ISSN: 2226-5139
- Journal of Mechanics of Continua and Mathematical Sciences EISSN: 0973-8975, ISSN: 2454-7190
- Research Journal of Social Sciences (RJSS) (ISSN:1815-9125) (CNKI SCHOLAR, SIS DATABASE, ULRICH'S PERIODICALS, THOMSON GALE,DOAJ,OPEN J-GATE,INDEX COPERNICUS,ELECTRONIC JOURNALS LIBRARY,EBSCO HOST)
- International Journal of Administration and Governance (IJAG)(ISSN 2077-4486) (Google scholar, Scientific World Index, Directory of Indexing and Impact Factor (DIIF), Academia.edu.
- International Journal of Business and Management (IJBM) (ISSN 2321 8916) (Google scholar, Scientific World Index, Directory of Indexing and Impact Factor (DIIF), Academia.edu.
- Journal of Engineering and Science Research (ISSN 2289-7127) (Google Scholar, MyJurnal)
- Advances in Environmental Biology (AEB) (ISSN 1995-0756)
- Advanced Journal of Technical and Vocational Education (AJTVE) (eISSN : 2550-2174)(Google Scholar, MyJurnal)

One Best Presenter Award will be selected from each oral session. The Certificate for Best Presenter award will be awarded after presentation session.


Advances in Environmental Biology
International Journal of Administration of Governance
Journal of Applied Sciences Research
Research Journal of Social Sciences
Journal of Engineering and Science Research
ADVANCED JOURNAL OF TECHNICAL AND VOCATIONAL EDUCATION
eISSN (online) : 2550-2174
RMP PUBLICATIONS
SCIENCE INTERNATIONAL
PUBLICATIONS INTERNATIONAL
Journal of Industrial Engineering Research
ISSN: 2077-4559
Mathematics and Statistics Journal

KEYNOTE SPEAKER:

Prof. Dr. Abdel Rahman Mohammad Said Al-Tawaha, (Ph.D)
Honorary Advisor IPN.org

Dato' Syed Azuan Syed Ahmad Al-Idrus, D.I.M.P., M.Eng, B.Sc, Dip
Honorary Advisory MDSG
Fellow, Institute of Materials, Malaysia
Fellow, IPN.org
Senior Member, Society of Manufacturing Engineers USA

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INSTRUCTION FOR ORAL PRESENTATION

Devices Provided by the Conference Organizer:

- Laptop (with MS-Office & Adobe Reader)
- Projector & Screen
- Laser Sticks

Materials Provided by the Presenters:

- PowerPoint or PDF files

Duration of each Presentation (Tentatively):

- Regular oral presentation: about 15 minutes (including Q&A)
- Keynote speech: about 40 minutes (including Q&A)

Notice: Please keep your belongings (laptop and camera etc) with you!

During registration:

Original Receipt
Representative / Pass Card with lanyard
Printed Program
Lunch Coupon
Participation Certificate (collected from Session Chair after the session)
Conference Bag

IPN Conferences 2020, Bandung, Indonesia

Conference Program

March 6, 2020	Venue:	1000 - 1200	Registration	
March 7, 2020	Venue:	0830 – 0845	Opening Remarks	**Opening Remarks**
		0845 – 1000	Plenary Speech 1	**Keynote Speaker**
		1000 – 1030	Group Photo and Coffee Break	
	Venue:	1030 – 1230	Session 1	
	Venue:	1230 – 1400	Lunch	
	Venue:	1400 – 1600	Session 2	
March 8, 2020	Lobby hotel	0800 - 1200	Networking	

Session 1
Time: 1030 – 1230
Venue:
Session Chair:

No	Paper ID	Presenter
1	007-bdo	**Optimization of Y-Shaped Mixing Chamber Carburetor for Dual Fuel Operation in UiTM Pulau Pinang Go-kart SI Engine** **M.M. Mahadzir,** M.F. Faiz, A.R. Hemdi, N.I. Ismail, H. Sharudin, N.H. Hanafi and S. Mohamad *Universiti Teknologi MARA, Malaysia*
2	001-bdo	**A Faster Method to Decide Collision Occurrence for a Stage in a Series-Parallel Machines Model** **Taiki Otsuka** and Eishi Chiba *Hosei University, Japan*
3	002-bdo	**Customer-Brand Engagement in Event Marketing Context: A Conceptual Model** **Romi Setiawan,** Dermawan Wibisono and Mustika Sufiati Purwanegara *Institut Teknologi Bandung, Bandung, Indonesia*
4	015-bdo	**Investigating Marketing Performance among One District One Industry Enterprises in Peninsular Malaysia** Khatijah Omar, Muhammad Abi Sofian Abdul Halim, Wan Fayyadhana Husna Wan Zulkifli, Siti Sarawati Johar, and **Sri Djatnika Sya'diah, Ahmad** *Universitas Padjadjaran, Bandung, Indonesia*
5	004-bdo	**One-Step Novel Synthesis of Cofe2o4/Graphene Composites for Organic Dye Removal** **M.A. Gabal,** K.M. Abou Zeid, A.A. El-Gendy and M.S. El-Shall *King Abdulaziz University, Jeddah, KSA*
6	016-bdo	**An Emperical Study of Entrepreneurial Assistance Program on Business Performance in One District One Industry Program** Muhammad Abi Sofian Abdul Halim, Khatijah Omar, Noor Fadhiha Mokhtar, Zuha Rosufila Abu Hasan and Marhana Mohamed Anuar, **Sri Djatnika Sya'diah** *Universitas Padjadjaran, Bandung, Indonesia*

Session 2
Time: 1400 - 1600
Venue:
Session Chair:

1	**005-bdo**	**Strategic Dynamic Capability for Indonesia Real Estate Companies** **Kelik Hastjarjo,** Prof. Dr. Dwi Kartini Yahya, SE., Spec. Lic., Dr. Hj. Umi Kaltum, S.E, M.S. and Dr. H. Sulaeman Rahman Nidar, SE.MBA. *Padjadjaran University, Bandung, Indonesia*
2	**008-bdo**	**Identification Control Structure and Distribution of Mineralization Alteration The Mount Gupit, Magelang, Central Java Geomagnetic Methods** **Arief Rachman Maulana** *UPN "Veteran" Yogyakarta, Geophysical Engineering, Yogyakarta, Indonesia*
3	**009-bdo**	**The Influence of Technopreneurship Scientific Learning, and Prior Knowledge Towards Ability to Identify Entrepreneurial Opportunities in Technical and Vocational Education Students** **Hendra Hidayat** and Eril Syahmaidi *Universitas Bung Hatta, Padang, Indonesia*
4	**011-bdo**	**Transition Metal Dichacogenide Transmutation Through Neutron Irradiation, Case Study: ZrS2** Ghaylen Laouini, Karim Hossny, Tariq AlZoubiand **Mohamed Moustafa** *The American University in Cairo, Egypt*
5	**014-bd0**	**Experimental Study Single Droplet Impingement onto Inclined Heated Surface in Various Metals** **Rio Budiman,** Indarto, Deendarlianto and Teguh Wibowo *Universitas Gadjah Mada Yogyakarta, Indonesia*
6	**010-bdo**	**Pedagogic-Competency Training: Global Skills Mobility and Student Teaching in Vocational Education and Training** **Eril Syahmaidi,** Hendra Hidayat, Suryo Hartanto and Ade Fitri Rahmadani *Universitas Bung Hatta, Padang, Indonesia*

Conference Venue

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Contact Person:
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Note

List of Abstract

No	Paper	Abstract
1	001-bdo	**A Faster Method to Decide Collision Occurrence for a Stage in a Series-Parallel Machines Model** **Taiki Otsuka** and Eishi Chiba *Department of Industrial and Systems Engineering, Hosei University, 3-7-2 Kajino-cho, Koganei-shi, Tokyo, 184-8584 Japan* **Abstract:** In this paper, we study a method to decide collision occurrence in a manufacturing line model. The method to decide collision occurrence is used to compute collision probability. Collision probability is the probability of jobs colliding in a manufacturing line and is a comparatively new and important evaluation item in systems in an unsteady state. Several methods to compute collision probability using collision decision methods already exit. The main contribution of this paper is to propose a faster collision decision method which, in turn, provides an efficient method to compute collision probability. The key idea of the proposed method is to manage the number of active machines when a job is fed to the line. We implement the method presented and show the findings obtained from computational experimentation.
2	002-bdo	**Customer-Brand Engagement in Event Marketing Context: A Conceptual Model** **Romi Setiawan**, Dermawan Wibisono and Mustika Sufiati Purwanegara *School of Business and Management, Institut Teknologi Bandung, Bandung, Indonesia* **Abstract:** The event has been believed as active media for building a bond with the customers by the marketers. As the experience base, event stimulates the customer's senses, mind, and feel to make an engagement with the brand. The customers actively involve the brand when they engage with the brand. Although the study of engagement has been developed on the marketing discipline in the past decades, the research in the event marketing context is still limited. The purpose of this research is to fill this gap by developing a conceptual

		framework of the antecedents of customer-brand engagement (CBE) in the event marketing context, which does not exist yet. The study begins with a systematical review from the past literature that related to the theme then synthesizes it into the CBE construct. There are four antecedents of CBE in event marketing that have been assembled from the past studies, as the result of this study. These variables – the original concept of the event, congruency between customer-event-brand, customer's involvement in the event, and customer experiences – influence the engagement between the customer and the brand. This research provides a new guideline and reveals opportunities for future research of engagement in the event marketing arena.
3	**004-bdo**	**One-Step Novel Synthesis of Cofe2o4/Graphene Composites for Organic Dye Removal** **M.A. Gabal[1,2],** K.M. Abou Zeid[2], A.A. El-Gendy[3] and M.S. El-Shall[2] *[1]Chemistry department, Faculty of Science, King Abdulaziz University, Jeddah, KSA* *[2]Department of Chemistry, Virginia Commonwealth University, Richmond, VA, 23284, USA* *[3]Department of mechanical and nuclear engineering. Virginia Commonwealth University, Richmond, VA, 23284, USA* **Abstract:** The present study was adopted for the synthesizing of $CoFe_2O_4$/Graphene nanocomposites via facile, environment friendly and novel in-situ reduction-auto-combustion sucrose route. The graphene based materials as well as the obtained nanocomposites were characterized using X-ray diffraction (XRD), transmission electron microscopy (TEM), differential thermal analysis-thermogravimetry (DTA-TG) and vibrating sample magnetometery (VSM) measurements. All the above measurements confirmed the formation of densely distributed $CoFe_2O_4$ nanoparticles firmly anchored on graphene nanosheets when the reduction of graphene oxide (GO) component was carried through refluxing with sucrose prior to the auto-combustion formation of entire ferrite. On the other hand, when the process was carried out without reflux, the in-situ reduction of GO during auto-combustion ferrite formation was resulted in the formation of uniformly distributed $CoFe_2O_4$ nanoparticles anchored on reduced graphene oxide (rGO) nanosheets. The changes in the thermal stability of the prepared graphene based materials and their ferrite nanoncomposites was discussed in the view of exposed surface area and agglomeration phenomena of the entire ferrite. The obtained nanocomposites were examined for the adsorption/removal of toxic malachite green dye (MG) from aqueous media depending on their magnetic sensitivity besides their porous surface morphology.
4	**007-bdo**	**Optimization of Y-Shaped Mixing Chamber Carburetor for Dual Fuel Operation in UiTM Pulau Pinang Go-kart SI Engine** **M.M. Mahadzir[1],** M.F. Faiz, A.R. Hemdi, N.I. Ismail[1], H. Sharudin[1], N.H.

		Hanafi[2] and S. Mohamad[3] *[1] Faculty of Mechanical Engineering, Universiti Teknologi MARA (UiTM) Pulau Pinang, Permatang Pauh, Pulau Pinang, Malaysia.* *[2] School of Electrical Systems Engineering, Universiti Malaysia Perlis, Pauh Putra Campus, Arau, Perlis, Malaysia.* *[3] Faculty of Electrical and Electronic Engineering, Universiti Tun Hussein Onn Malaysia, Batu Pahat, Johor, Malaysia.* **Abstract:** Energy conversion from renewable energy sources is possible and available for future use. Biomass materials such as rice husk can be used as alternative fuel and at the same time reduced fossil fuels in the operation of internal combustion engines. The application of dual-fuelled can also be applied to the SI engine. Producer gas which is combustible gas produced by biomass gasification is one of the solution can be used in dual-fuelled SI engine together with the gasoline. However, the various means of incorporating the producer gas in the SI Engine needs extensive research. In this paper, for the purpose of using SI engine to operate the UiTM Pulau Pinang go-kart with dual fuelled such as producer gas and gasoline, the optimization of Y-shaped mixing chamber carburetor is studied. An experiment have been done to know the best optimization based on the ability of the SI engine operated in time at idle condition. Two parameters such as air producer gas ratio and the percentanges mixture of fuels with varing values has been selected as input. From the study it was found that 1.5:1 air producer gas ratio with a 50% gasoline resulted in better mixing. The SI engine used for UiTM Pulau Pinang go-kart has been run smoothly and longer compared to other parameters without knocking.
5	**015-bdo**	**Investigating Marketing Performance among One District One Industry Enterprises in Peninsular Malaysia** Khatijah Omar[1], Muhammad Abi Sofian Abdul Halim[2], Wan Fayyadhana Husna Wan Zulkifli[3], Siti Sarawati Johar[4], and **Sri Djatnika Sya'diah, Ahmad[6]** *[1,2,3,4] Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Terengganu, Malaysia* *[1,2] Institute of Tropical Biodiversity and Sustainable Development, Universiti Malaysia Terengganu, Terengganu, Malaysia* *[5]Department of Social Science, Universiti Tun Hussein Onn, Batu Phat, Johor, Malaysia* *[6]Faculty of Economics and Business, Universitas Padjadjaran, Bandung, Indonesia* *[*]For correspondence; Tel. + (09) 6683850 , E-mail: khatijah@umt.edu.my* **Abstract:** Community-based enterprise (CBE) is one of the business models that was designed to improve the socio economic of the rural communities through the development of distinctive businesses whereby One District One Industry or SDSI is one of them. SDSI is a business model that is quite similar to OVOP model that is practised in Japan OTOP that is practised in Thailand. In Malaysia, various

		entrepreneurial development programs have been provided including One District One Industry (SDSI), however, SDSI programs are considered as not that successful as OVOP and OTP. Thus, this study aims to investigate the influence of CBE model elements (cooperation, sustainable enterprise and innovation) on marketing performance among the SDSI entrepreneurs in Peninsular Malaysia. 500 sets of questionnaires were distributed and 459 were returned and all were usable. The results revealed that cooperation and sustainable enterprise have significant influence on marketing performance among SDSI enterprises. Overall, the results indicate that CBE model is not well practised among SDSI entrepreneurs in Peninsular Malaysia, as it is practised by OVOP entrepreneurs in Japan and OTOP in Thailand. Thus, those responsible bodies or agencies are urged to play more active roles in promoting the adoption of CBE model among SDSI entrepreneurs since the model has been proven to be successful in Japan and Thailand.
6	**016-bdo**	**An Emperical Study of Entrepreneurial Assistance Program on Business Performance in One District One Industry Program** Muhammad Abi Sofian Abdul Halim, Khatijah Omar, Noor Fadhiha Mokhtar, Zuha Rosufila Abu Hasan and Marhana Mohamed Anuar, **Sri Djatnika Sya'diah** *Faculty of Business, Economy and Social Development, Universiti Malaysia Terengganu, Kuala Terengganu, 20103, Terengganu* *[2]Faculty of Economics and Business, Universitas Padjadjaran, Bandung, Indonesia* **Abstract:** In Malaysia, One District One Industry (SDSI) are often identified as one of the most important strategies for enhancing the development rural areas. Conceived in Program of One Village One Product in Japan as a policy to reverse rural depopulation, it has become more focused to further enhance industrial development as well as poverty alleviation when implemented the Program of SDSI in Malaysia. Thus, the purpose of this study is to investigate the effect of entrepreneurial assistance program on business performance for those entrepreneurs who are operated their business in SDSI in Malaysia. A survey was conducted with 306 registered SDSI selected from East-Coast and West-Coast of Peninsular Malaysia. The sample was obtained by using stratified allocation sampling where the number of SDSI within four clusters was considered. The results revealed that there is significantly effect of entrepreneurial assistance program on business performance. Hence, the results indicated that the authorities need to take any possible initiative to specify as well as improving the entrepreneurial assistance program in order to improve business performance among SDSI entrepreneurs in Malaysia.