<table>
<thead>
<tr>
<th>Komponen Yang Dinilai</th>
<th>Nilai Maksimal Prosiding</th>
<th>Nilai Akhir Yang Diperoleh</th>
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Judul Karya Ilmiah : A Detailed Study of Vibro Fluidized Bed Dryer Exergy and Exergy Model of Tea Process Application

Jumlah Penulis : 5 Orang
Status Pengusul : Penulis pertama/-penulis ke 3/-penulis korespondensi

Identitas Prosiding :
  b. ISBN/ISSN : 9610-9612
  c. Tahun, Tempat Pelaksanaan : 2018, Semarang
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Hasil Penilaian Peer Review :

<table>
<thead>
<tr>
<th>Komponen Yang Dinilai</th>
<th>Nilai Maksimal Prosiding</th>
<th>Nilai Akhir Yang Diperoleh</th>
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<tr>
<td>a. Kelengkapan unsur isi prosiding (10%)</td>
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</tbody>
</table>

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NIP. 197002171994121001
Unit kerja : Departemen Teknik Mesin FT UNDIP
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KARYA ILMIAH : PROSIDING

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<table>
<thead>
<tr>
<th>Komponen Yang Dinilai</th>
<th>Nilai Reviewer</th>
<th>Nilai Rata-rata</th>
</tr>
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<td>a. Kelengkapan unsur isi prosiding (10%)</td>
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</tbody>
</table>

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Reviewer 1
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Prof. Dr. Rer. Nat. Ir. A.P. Bayuseno, MSc.
NIP. 196205201989021001
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E Yohana, G Natalio, H Pachusadewo… - Advanced Science …, 2018 - ingentaconnect.com

Tea is a very beneficial drink for one's health. It is known for its anti-oxidant and anti-inflammatory content that could prevent Coronary Heart Disease (CHD). Unfortunately, without a proper processing step, tea will lose its benefits. One of the steps of processing tea is the process of drying. To achieve a good drying result, a machine with Fluid Bed Dryer (FBD) type is used. Along with the development of technology, the FBD machine is evolving into Vibro Fluid Bed Dryer (VFBD), in which the FBD machine is equipped with a vibrator…

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research-article

Selected Peer-Reviewed Articles from the International Conference on Engineering Application, Physics and Sciences (ICEAPS2017), Johor Bahru, Malaysia, 26–27 October, 2017
pp. 9023-9025(3)
Authors: Supriyono; Siswanto, Waluyo Adi; Darmawan, Agung Setyo; Utomo, Wahyu Mulyo; Supriyono, Heru; Setiawan, Wisnu; Solikin, Mochamad; Ulinuha, Agus; Prasetyo, Hari; Purnama, Herry

Vibration Analysis of Steam Turbine Blade: A Finite Element Analysis
pp. 9026-9030(5)
Authors: Amini, Kourosh; Heidari, Milad

The Experimental Investigation of Injector Research: A Review
pp. 9031-9036(6)
Authors: Semin; Cahyagi, Danang; Mustono, Eddy
Experimental Piston Modification on Internal Combustion Engine: A State of the Art Review
pp. 9037-9040(4)
Authors: Semin; Rudianto; Darmawan

The Effect of Additional Reflector on the Burner of TLUD Gasification Stove
pp. 9041-9045(5)
Authors: Wijianto; Sarjito; Subroto; Himawanto, D. A; Adityarini, H

Wear and Corrosion Resistance of Aluminium Nitride Produced by DC Glow Discharge
pp. 9046-9048(3)
Authors: Riyadi, Tri Widodo Besar; Tjahjono, Tri; Sarjito; Margono; Suprapto; Sujitno, Tjipto

Enhancing the Trailing-Edge Cooling Performance of Gas Turbine Blade Using Cylindrical Pin-Fins Cooling
pp. 9049-9053(5)
Author: Effendy, Marwan

The Effect of the Cycle Number on the Product Characteristics of Shaker High Energy Ball Milling to Produce Nano Particle from Bamboo Charcoal
pp. 9054-9057(4)
Authors: Supriyono; Ngafwan; Joharwan, J. W

Experimental Static Cavitation Tunnel for Underwater Marine Propeller Cavitation Study
pp. 9058-9062(5)
Authors: Choong, Wai Heng; Yeo, Kiam Beng; Tamiri, Fadzlita Mohd; Dalimin, M. Noh

Performance Evaluation of Impact Simulation on Cluster Computing
pp. 9063-9066(4)
Authors: Ibrahim, Mohd Norihan; Siswanto, Waluyo Adi; Zaidi, Ahmad Mujahid Ahmad; Handaga, Bana

Simulation on Steady and Unsteady State of Aerodynamic Behavior a Minivan Model Using CFD
pp. 9067-9074(8)
Authors: Sarjito; Novianto, Ridwan; Aklis, Nur
<table>
<thead>
<tr>
<th>Title</th>
<th>Pages</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercity Passenger Trip Generation in Jawa Corridor Based on National O-D Survey</td>
<td>9075-9080(6)</td>
<td>Abidin, Zainal</td>
</tr>
<tr>
<td>Slope Failure Behavior Analysis in Open Pit Coal Mining</td>
<td>9081-9088(8)</td>
<td>Saptono, Singgih; Musa, Rachmat Hamid</td>
</tr>
<tr>
<td>Simulation of Shoreline Change Related Coastal Structure</td>
<td>9089-9093(5)</td>
<td>Hargono, Slamet; Augusto, Erhar; Wiranto, Adi P; Pramana, Rendi</td>
</tr>
<tr>
<td>Feasibility Pressure Test of Precast Hollow Trapezoid Foundation for Simple Household Development</td>
<td>9094-9097(4)</td>
<td>Mudjanarko, Sri Wiwoho; Koespiadi; Mayestino, Alexander Machicky; Rasidi, Nawir</td>
</tr>
<tr>
<td>Diagonal Reinforcement as Strengthening to Increase the Stiffness and Strength of Concrete Frame</td>
<td>9098-9103(6)</td>
<td>Nurchasanah, Yenny; Ujianto, Muhammad; Gagah; Winoto, Adinda Tri</td>
</tr>
<tr>
<td>The Effect of Bamboo and Wiremesh Reinforcement on Brick Wall Panel Due to Compressive and Flexural Strength</td>
<td>9104-9108(5)</td>
<td>Ujianto, Muhammad; Islamia, Rozzaana; Baskoro, Ifandi</td>
</tr>
<tr>
<td>The Effectiveness of Model D&amp;M IS Success SIM-LITABMAS in UPN Veteran East Java</td>
<td>9109-9112(4)</td>
<td>Rosadi, Aswin; Winarno; Lukman</td>
</tr>
<tr>
<td>Disposal Site Selection Using TOPSIS in Wonogiri District Central Java</td>
<td>9113-9117(5)</td>
<td>Djunaidi, Much; Angga; Setiawan, Eko</td>
</tr>
<tr>
<td>Investigation on Friction Stir Welding of 2 mm Thick Aluminium Sheet</td>
<td>9118-9123(6)</td>
<td>Sugito, Bibit; Anggono, Agus Dwi; Hariyanto, Agus; Subroto; Sarjito; Darmawan, Agung Setyo</td>
</tr>
<tr>
<td>Title</td>
<td>Authors</td>
<td>Pages</td>
</tr>
<tr>
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<td>----------------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>Positioning Household Waste Transfer Points: A Municipality Government-Organized Waste Perspective</td>
<td>Setiawan, Eko; Nugrahadi, Beki; Widiyastuti, Yesi; Djunaidi, Much; Suranto</td>
<td>9128-9132(5)</td>
</tr>
<tr>
<td>Stevia rebaudiana in Food and Beverage Applications and Its Potential Antioxidant and Antidiabetic: Mini Review</td>
<td>Harismah, Kun; Mirzaei, Mahmoud; Fuadi, Ahmad Muhammad</td>
<td>9133-9137(5)</td>
</tr>
<tr>
<td>The Influence of Organic Materials to Nitrogen Content of Leaf Tissue of Corn Planted in Coastal Sand Soil</td>
<td>Budiyanto, Gunawan</td>
<td>9138-9140(3)</td>
</tr>
<tr>
<td>Acquisition of Blackberry Messenger’s Digital Evidence in Android Based Smartphone</td>
<td>Riadi, Imam; Umar, Rusydi; Firdonsyah, Arizona</td>
<td>9141-9145(5)</td>
</tr>
<tr>
<td>Smart Class Design to Improve the Quality of Learning Process at Universitas Muhammadiyah Surakarta</td>
<td>Murtiyasa, Budi; Handaga, Bana; Wantoro, Jan</td>
<td>9146-9150(5)</td>
</tr>
<tr>
<td>Identification of Egg Fertility Using Gray Level Co-Occurrence Matrix and Backpropagation</td>
<td>Sunardi; Yudhana, Anton; Saifullah, Shoffan</td>
<td>9151-9156(6)</td>
</tr>
<tr>
<td>Measurement of Copy-Move Forensic Image Similarity Using Distance Function</td>
<td>Fadli, Abdul; Riadi, Imam; Sari, Titi</td>
<td>9157-9162(6)</td>
</tr>
<tr>
<td>DDoS Detection Using Artificial Neural Network Regarding Variation of Training Function</td>
<td>Riadi, Imam; Sunardi; Muhammad, Arif Wirawan</td>
<td>9163-9167(5)</td>
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<td>Optimized Palmprint Recognition with Gabor Parameters Adjustment and Matching Method Selection</td>
<td>9168-9172(5)</td>
<td>Kusban, Muhammad; Budiman, Aris; Hari, P. Bambang</td>
</tr>
<tr>
<td>Developing Mobile Interactive Learning Media with Educational Game for Supporting Javanese Letters Learning</td>
<td>9173-9177(5)</td>
<td>Supriyono, Heru; Adhantoro, Muhammad Syahriandi; Rahmadzani, Rifqi Fauzi</td>
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<tr>
<td>Determination of Appropriate Fish Culture Method Based on Water Quality Using Expert System</td>
<td>9178-9181(4)</td>
<td>Suwarsito; Mustafidah, Hindayati</td>
</tr>
<tr>
<td>Correlation Analysis Between Error Rate of Output and Learning Rate in Backpropagation Network</td>
<td>9182-9185(4)</td>
<td>Mustafidah, Hindayati; Suwarsito</td>
</tr>
<tr>
<td>Web-GIS Application Using Multi-Attribute Utility Theory Method as an Alternative Classification of New Highway Development with Heavy Traffic</td>
<td>9186-9192(7)</td>
<td>Vitianingsih, Anik Vega; Cahyono, Dwi; Choiron, Achmad</td>
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<tr>
<td>Impact of Photovoltaic System Penetration on the Operation of Voltage Regulator Equipment</td>
<td>9193-9198(6)</td>
<td>Taufik; Mubaraki, Abesh; Utomo, Wahyu M; Bakar, Afarulrazi A</td>
</tr>
<tr>
<td>Arm Robot Prototype with Analog Servo Using Arduino Controller and Visual Basic 6.0</td>
<td>9199-9202(4)</td>
<td>Iqbal, Mohd; Omar, Rosli</td>
</tr>
<tr>
<td>Harmonic Current Reduction Using Soft-Switching Active Power Filter</td>
<td>9203-9208(6)</td>
<td>Jumadril, J. N; Utomo, Wahyu Mulyo; Ponniran, Asmarashid; Bakar, A. A; Sulaiman, Erwan; Taufiq, T</td>
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<td>---------</td>
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</tr>
<tr>
<td>The Role of Geometric Shape of Javanese Traditional Mosque in</td>
<td>9209-9213(5)</td>
<td>Syamsiyah, Nur Rahmawati; Dharoko, Atyanto; Utami, Sentagi Sesotya</td>
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<tr>
<td>Forming the Characteristic of Room Acoustics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Place Attachment Study for Conservation Approach (Majasto Cemetery—</td>
<td>9214-9218(5)</td>
<td>Indrawati, I; Soetomo, Sugiono; Setioko, Bambang; Murtini, Titin Woro;</td>
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<tr>
<td>The Sites of Islamic Heritage in Central Java)</td>
<td></td>
<td>Nurhasan, N</td>
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<tr>
<td>Analysis of Social Sustainability Models: Toward More Sustainable</td>
<td>9219-9222(4)</td>
<td>Sholihah, Arif Budi; Athas, Syarifah Ismailiyah Al</td>
</tr>
<tr>
<td>Indonesian Cities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Guidance for Sustainable Airport Building Design: A Review</td>
<td>9223-9228(6)</td>
<td>Setiawan, Wisnu; Sadewa, Rilo Alief</td>
</tr>
<tr>
<td>Implication of Spacial Pattern for Patients Safety of Surakarta</td>
<td>9229-9234(6)</td>
<td>Mutiari, Dhani; Pamujiono, Iwan</td>
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<tr>
<td>Regional Mental Hospital</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Selected Peer-Reviewed Articles from the 2017 3rd International</td>
<td>9235-9237(3)</td>
<td>Othman, Mohd Azlishah; Sulaiman, Hamzah Asyrani; Hanapi, Ahmad Na’im Che</td>
</tr>
<tr>
<td>Conference on Business, Management, Tourism and Hospitality</td>
<td></td>
<td>Pee Che; Othman, Mohd Fairuz Iskandar; Rahim, Yahaya Abd</td>
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<tr>
<td>(BIZMATOUR 2017), Bandung, Indonesia, 28–30 November, 2017</td>
<td></td>
<td></td>
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<tr>
<td>Islamic Institution and Its Impact Towards Local Community: A Case</td>
<td>9238-9242(5)</td>
<td>Omar, Nuredayu; Mustaffa, Che Su</td>
</tr>
<tr>
<td>of Yayasan Daarut Tauhiid, Bandung Indonesia</td>
<td></td>
<td></td>
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<tr>
<td>Empowerment of Village Community Through the Village Budget</td>
<td>9243-9246(4)</td>
<td>Muin, Fatkhul; Absori</td>
</tr>
<tr>
<td>Management Based on Good Governance Principles</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Ethics and Law Enforcement in Consumer Protection Perspective
Law No. 8 of 1999 Concerning Consumer Protection
pp. 9247-9250(4)
Authors: Mucharom, Rully Syahrul; Aspihanto, Aan

Forecasting Foreign Tourist in Thailand by Artificial Neural Network
pp. 9251-9254(4)
Author: Chaivichayachat, Bundit

Communication Style and Psychological Well-Being Among Flood Victim in Malaysia
pp. 9255-9257(3)
Authors: Mustaffa, Che Su; Marzuki, Najib Ahmad; Khalid, Mohamad Sukeri; Sipon, Sapora; Zakaria, Nurlela

Advance Income Tax: The Case of Ecuador
pp. 9258-9260(3)
Authors: Fernanda, Yaguache María; Elvia, Inga; Raquel, Córdova; Reinaldo, Armas

Reflection of Gross Domestic Product into the Income Values According to the Attained Level of Education in Europe
pp. 9261-9265(5)
Authors: Antonyová, Anna; Antony, Peter; Soewito, Benfano; Abdullah, Abd Halid Bin; Nagapan, Sasitharan

Effectiveness of Social Media Campaigns in Improving Participation of Younger Generations in Beach-Cleaning Programs
pp. 9266-9269(4)
Authors: Hanan, Hanif; Wee, Hassnah; Aminudin, Norliza; Hamid, Zuliah Abdul

The Role of Technology, Leadership, Organizational Culture, Measurement, and SECI Process in Developing Innovation
pp. 9270-9273(4)
Authors: Kurniawan, Catherine Devina; Prasetya, Agustian Budi; Sudibjo, Niko

Criteria Towards Sound Information Technology Governance
pp. 9274-9278(5)
Authors: Sibanda, Mbusi; Solms, Rossouw Von

Unlocking the Component of Food Souvenir Quality
pp. 9279-9282(4)
Authors: Suhartanto, Dwi; Sosianika, Adila; Suhaeni, Tintin
<table>
<thead>
<tr>
<th>Title</th>
<th>Pages</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Community-Based Tourism in Rural Areas: A First Approach to the Ecuadorian Case</td>
<td>9283-9286(4)</td>
<td>Morales-Urrutia, Diana; Morales-Urrutia, Ximena; Carvajal-Larenas, Patricio</td>
</tr>
<tr>
<td>Rural Tourism in Spain: An Overview by Autonomous Communities</td>
<td>9287-9290(4)</td>
<td>Morales-Urrutia, Ximena; Morales-Urrutia, Diana; Simbaña-Taipe, Luis</td>
</tr>
<tr>
<td>Characterization of Corporate Social Responsibility in the Textile Industry of Jeans: Pelileo-Ecuador. A Case Study</td>
<td>9291-9295(5)</td>
<td>Vayas-Ortega, Germania; Larzabal-Fernandez, Aitor; Rivera, María G; Perez, Amparito; Gonzalez, Andrea</td>
</tr>
<tr>
<td>Process Community Relations Behind Smoke Waste Pollution in PT. Prakasa Alam Segar</td>
<td>9296-9298(3)</td>
<td>Safitri, Dini; Octavia, Aldilla</td>
</tr>
<tr>
<td>A Literature Review of Information Technology Governance Implementation in Higher Educations</td>
<td>9299-9302(4)</td>
<td>Liew, Chinwei; Aziati, A. H. Nor; Abdullah, Nor Hazana</td>
</tr>
<tr>
<td>Is the Conversion of Rice Straw Waste into Activated Carbon and Silica Particles Industrially Feasible?</td>
<td>9303-9306(4)</td>
<td>Nandiyanto, Asep Bayu Dani; Machmud, Amir; Abdullah, Ade Gafar</td>
</tr>
<tr>
<td>Neuromarketing: State of the Arts</td>
<td>9307-9310(4)</td>
<td>Aditya, Dana; Sarno, Riyanarto</td>
</tr>
<tr>
<td>Characterization of the Environment of the Businesses That Provide the Bodybuilder Sector of the Province of Tungurahua and Its Economic-Financial Situation</td>
<td>9311-9315(5)</td>
<td>Vayas-Ortega, Germania; Villacís-Yank, José; Bombón-Orellana, Danilo; Gutierrez-Zambrano, Javier</td>
</tr>
</tbody>
</table>
Moderated Mediation of Innovation Between Total Quality Management (TQM) and Business Performance

Authors: Shan, Ang Wei; Ahmad, Mohd Fauzi; Chan, Shiau Wei; Nor, Nik Hisyamudin Muhd; Hashim, Filozib Bin; Hassan, Mohd Fahrul; Rahman, Nor Aida Abdul

Management of Postpartum Haemorrhage Reduction by the Effective Practices in the Scope of Midwife: A Review

Authors: Abujarad, Sawsan. A; Ahmad, Md Fauzi; Hamid, Nor Aziati Abdul; FarajAllah, Heba K

Korean Restaurant Atmosphere and Impression: Impact on Repurchase Intention

Authors: Rahayu, Agus; Koeswandi, Tika Annisa; Wibowo, Lili Adi

Modeling and Forecasting Price Volatility of Crude Palm Oil and Sarawak Black Pepper Using ARMA and GARCH Model

Authors: Razali, Jelani Bin; Mohamad, Afiqah Munira Bt

Planning a Dark Tourism Experience: A Case of the Province of Cavite, Philippines

Authors: Notorio, Paul Anthony C; Lubang, Jeffrey A

Education, Peer Pressure, Broken Family and Perpetrating Crime Among Community in Malaysia

Authors: Arshad, Mohd Ramlan Mohd; Rahim, 'Ainatul Fathiyah Abdul

Corporate Social Responsibility (CSR): An Opportunity for the Poverty Alleviation

Authors: Anggraini, Choiria; Kriyantono, Rachmat; Wulandari, Maulina Pia

Reverse Mortgage as an Alternative for Additional Retirement Income in Malaysia

Authors: Ramli, Suraya Fadilah; Adzhar, Zahrul Azmir ABSL Kamarul; Redzwan, Norkhairunnisa Mohamed
The Economic Incentives Towards Low-Income Communities in Malaysia
pp. 9349-9353(5)
Author: Osman, Saripah

The Culture Change of Potato Farmers in Wonosobo Region, Central Java in Dealing with Export Competitiveness via Online
pp. 9354-9356(3)
Authors: Sanny, Lim; Sarjono, Haryadi

The Meaning of Accountability of Stakeholders’s Perspective in Faculty of Economics State University of Jakarta
pp. 9357-9359(3)
Authors: Pahala, Indra; Sudarma, Made; Sutrisno; Rosidi

Financial Accountability on Stakeholders’ Perspective in Faculty of Economics of State University of Jakarta (UNJ)
pp. 9360-9363(4)
Authors: Pahala, Indra; Sudarma, Made; Sutrisno; Rosidi

Customers’ Acceptance on e-Banking: Study on Government’s Bank in Jakarta
pp. 9364-9367(4)
Authors: Usman, Osly; Syinar, Ina Primiana; Kaltum, Umi; Febrian, Erie

Relationship Between Employee Satisfaction, Productivity, and Profitability: A Conceptual Model
pp. 9368-9371(4)
Authors: Ruhadi; Utami, Fiesty; Suhartanto, Dwi; Triyuni, Ni Nyoman

The Effect of Capital Structure on Profitability of Manufacturing Company
pp. 9372-9375(4)
Authors: Martati, Indah; Suminto; Kusrihandayani, Dyah

Sales and Tax to Measure Economy?
pp. 9376-9378(3)
Authors: Salam, Zarina Abdul; Zakaria, Zukarnain; Rizal, Adriana Mohd; Mahadi, Nomahaza; Jamil, Rosillah; Hussin, Nazimah; Habib, Farzana Quoquab; Ali, Nor Raihana Mohd
An Exploratory Factor Analysis (EFA) for Developing and Validating a Scale of Public Acceptance on Willingness to Pay (PAWP) Maximum Demand (MD) Charge in Malaysia
pp. 9379-9383(5)
Authors: Abdullah, W. M. Z. Wan; Zainudin, W. N. R. A; Ramli, N. A

The Scale for Assessment of Public Participation Towards Renewable Energy (RE) Development in Malaysia: An Exploratory Factor Analysis (EFA)
pp. 9384-9388(5)
Authors: Abdullah, W. M. Z. Wan; Zainudin, W. N. R. A; Ishak, W. W. Mohamad

Strategic Analysis of the Logistics Industry in Indonesia
pp. 9389-9392(4)
Authors: Sanny, Lim; Tuori, Michael A; Simek, Lea

Analysis of Venture Capital Strategic Investment Decision Process in Indonesia Digital Industry
pp. 9393-9396(4)
Authors: Sanny, Lim; Setiawan, Raymond; Junaidi, Wendy

Customer Brand Identification and Dimensions of Brand Equity—A Study on Tour and Travel Companies
pp. 9397-9400(4)
Authors: Foster, Bob; Sidharta, Iwan; Rahman, Robbi Saepul

Impact of Non-Advertisement Mass Media Tourism Contents on Tourists’ Choice of Destination
pp. 9401-9404(4)
Authors: Kasim, Hendy; Furinto, Asnan; Masman, Ronnie Resdianto

Distant Work: Essence and Perspective of Legal Regulation in Ukraine
pp. 9405-9409(5)
Authors: Vyshnovetska, Svitlana; Pyvovar, Yuriy; Kmetyk, Khrystyna

Cellular Automata Based Entrepreneurial Growth Model
pp. 9410-9413(4)
Authors: Nugraheni, Cecilia E; Natali, Vania

The Influence of Price and Quality of Service on Purchase Decision: A Case Study on Entertainment Industry
pp. 9414-9418(5)
Authors: Lutfie, Harrie; Hidayat, Rahmat

https://www.ingentaconnect.com/content/asp/asl/2018/00000024/00000012
A Review on Technology Utilization of Malaysian Broiler Industry in Enhancing Food Security
pp. 9419-9422(4)
Authors: Shahidan, Nur Shafizah; Othman, Norfaridatul Akmaliah

The Resilience of Tengger People in Dealing with the Mount Bromo Eruption
pp. 9423-9428(6)
Authors: Rachmawati, Turniningtyas Ayu; Rahmawati, Dwi

Analysis of External Stimuli Consumer Behavior Factor for Optimalization Digital Marketing Tools Used (Bandung Society, 2017)
pp. 9429-9432(4)
Authors: Rahmat, Hidayat; Hidayat, Agus Maolana

The Effect of Celebrity Endorser, Advertising and Brand on Customer Purchase Decision: An Empirical Study
pp. 9433-9436(4)
Authors: Ahmad, Suryana H; Komariah, Nur

Personality-Based Selection to Improve Recruitment and Retention of Doctors in Rural Areas
pp. 9437-9440(4)
Authors: Arshad, Hartini Md; Jamil, Rossilah; Salam, Zarina Abdul

Sustainable Tourism Development Review: Stepping Poverty on Samosir Cultural Landscape
pp. 9441-9445(5)
Authors: Surjono; Maulidi, Chairul; Sitanggang, Ruth Mayasari

Food Preferences for Generation Z: A Literature Study
pp. 9446-9448(3)
Authors: Rahadi, Raden Aswin; Noh, Siti Nur Nabilah; Zulkiffli, Siti Nur ‘Atikah; Padlee, Siti Falindah

Co-Movement Relationship of Asian Listed Property Companies
pp. 9449-9451(3)
Authors: Hamid, Muhammad Yusaimi; Razali, Muhammad Najib

Service Quality in Halal Restaurants: The Roles of Religiosity and Values
pp. 9452-9455(4)
Authors: Hamid, Noor Raihan Ab; Saaidin, Munira; Kamari, Muhammad Naim; Rose, Roslan Mohd; Ahmad, Siti Nor Bayaah
Researcher Attitudes and Commercialisation Intention Among Researchers in Public Universities in Malaysia
pp. 9456-9459(4)
**Authors:** Anuar, Norazura; Zakaria, Zukarnain; Shamsuddin, Sofian

Reintroducing “Wayang Punakawan” as Cultural Heritage in LINE Stickers Chat Form
pp. 9460-9464(5)
**Author:** Darmawan, James

Demand for Tourism in AEC with AIDS Model
pp. 9465-9469(5)
**Author:** Chaivichayachat, Bundit

Influence of Market Attractiveness and Value Creation on Reputation of Beauty Shop Industry in Jakarta
pp. 9470-9474(5)
**Author:** Gozali, Harry

Students’ Intention in Pursuing Accounting Study: Theory of Planned Behaviour Perspective
pp. 9475-9478(4)
**Authors:** Rosnidah, Ida; Johari, Razana Juhaida; Sulistyowati, Wiwit Apit; Siddiq, Dedi Muhammad; Setiawan, Adi

Selected Peer-Reviewed Articles from the International Conference of Vocational Studies on Applied Research (ICoVAR) 2017, Indonesia, 13–15 September, 2017
pp. 9479-9480(2)
**Authors:** Siswanto, Anggun Puspitarini; Budiyono; Weiss, Andrea; Otsuka, Takehiko

Factors Influencing the Auditor’s Intentions to Take Whistleblowing Action
pp. 9481-9484(4)
**Authors:** Purwanto, Agus; Hanjani, Andreani; Kusumadewi, R. R. Karlina Aprilia

The Performance Evaluation on QIM Hospital in JKN Era Using Balanced Scorecard
pp. 9485-9488(4)
**Authors:** Purwanto, Agus; Restuningsih, Lilis; Jati, Sutopo Patria
<table>
<thead>
<tr>
<th>Title</th>
<th>Pages</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ballistic Performance Investigation of Hybrid Ramie-Hard Facing</td>
<td>9489-9492(4)</td>
<td>Mukhammad, Alaya Fadllu Hadi; Setyoko, Bambang; Murni; Mujiyono; Nurhadiyanto, Didik</td>
</tr>
<tr>
<td>Metal Reinforced Polymer Composite</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Effect of Decortication Process and 5% NaOH Treatment Industrial</td>
<td>9493-9495(3)</td>
<td>Mukhammad, Alaya Fadllu Hadi; Setyoko, Bambang; Murni; Bramiana, Chely Novia; Mujiyono; Nurhadiyanto, Didik</td>
</tr>
<tr>
<td>Ramie Fiber (Boehmeria Nivea Linn) on the Tensile Strength</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Use of Social Media in the Community-Based Literacy Movement</td>
<td>9496-9498(3)</td>
<td>Yanto, Andri; Rizal, Edwin</td>
</tr>
<tr>
<td>Dielectric Barrier Discharge Plasma Approach for Bio-Oils Chemical</td>
<td>9499-9501(3)</td>
<td>Siswanto, Anggun Puspitarini; Kuvshinov, Dmitriy; Holmes, Thomas; Yulianto, Mohamad Endy; Rehman, Fahad; Zimmerman, William</td>
</tr>
<tr>
<td>Detoxification: An Advanced Technology on Industrial Application</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plasma Reactor Characterization of Lignocellulosic Materials on</td>
<td>9502-9504(3)</td>
<td>Siswanto, Anggun Puspitarini; Kuvshinov, Dmitriy; Pandhal, Jagroop; Zimmerman, William</td>
</tr>
<tr>
<td>Agricultural Waste Treatment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Family Social Responsibility (FSR) as a Co-Creative Family</td>
<td>9505-9508(4)</td>
<td>Endriastuti, Annysa; Saraswati, Rina; Kusumo, Eko</td>
</tr>
<tr>
<td>Empowerment Model of Business Practice for an Early-Marriage Live at</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tanah Merah District, Bangkalan, Madura</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mini Automatic Weather Station Development for Android Based Weather</td>
<td>9509-9515(7)</td>
<td>Budianto, Anwar; Rashaki, Yoiko; Nugroho, Ginaldi Ari</td>
</tr>
<tr>
<td>Parameters Monitoring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Translating the Legend of Teluk Awur into English</td>
<td>9516-9519(4)</td>
<td>Jati, Ariya</td>
</tr>
</tbody>
</table>

https://www.ingentaconnect.com/content/asp/asl/2018/00000024/00000012
Development of Information System Based on Web Application for Measuring Educational Performance Indicator Using Codeigniter Framework
pp. 9520-9522(3)
**Author:** Subari, Arkhan

Implementation of Password Guessing Resistant Protocol (PGRP) in Improving User Login Security on Academic Information System
pp. 9523-9525(3)
**Authors:** Subari, Arkhan; Manan, Saiful; Ariyanto, Eko

Preliminary Study Biogas Production from Saw Dust Waste with NaOH Pretreatment
pp. 9526-9528(3)
**Authors:** Zumalla, Asfarina; Sumardiono, Siswo; Budiyono; Ardhiansyah, Hanif

Community Based Indigenous People's Human Settlement Preservation in Indonesia: A Conceptual Framework
pp. 9529-9533(5)
**Authors:** Manaf, Asnawi; Wahyudi, Imam; Puspita, Astrini Ayu; Wahyono, Hadi; Haryanto, Ragil; Rusmanto, Totok

Identification of Risk Factors Cause Cost Overrun at Toll Road Project
pp. 9534-9536(3)
**Authors:** Nurdiana, Asri; Susanti, Riza; Suwarto, Fardzanela

Risk Management Application at Performance Based Contracts Based on Project Life Cycle Using AHP Method (Case Study at Road Maintenance Project in Indonesia)
pp. 9537-9539(3)
**Authors:** Nurdiana, Asri; Wibowo, Mochammad Agung

The Development of Monomaran Fishing Boat Hullform to Improve Ship Stability Performance in Supporting the Safety Improvement of Fishing Activity
pp. 9540-9544(5)
**Authors:** Windyandari, Aulia; Sasono, Eko Julioanto; Suharto

Influence of Corrosion Resistant and Hardness of AISI 316L and AISI 304 Shot Peened for Biomaterial Application
pp. 9545-9547(3)
**Authors:** Priyambodo, Bambang Hari; Malau, Viktor; Iswanto, Priyo Tri
<table>
<thead>
<tr>
<th>Title</th>
<th>Pages</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study of Outdoor Thermal Comfort in Old City Open Space. Case Study Semarang Old City</td>
<td>9548-9551(4)</td>
<td>Harsritanto, Bangun I. R; Widiastuti, Ratih; Rusyda, Hana Faza Surya</td>
</tr>
<tr>
<td>Hull Characteristics of 3 GT Traditional Fishing Boat with Additional Fins Installment</td>
<td>9552-9555(4)</td>
<td>Santoso, Budhi; Romadhoni; Ikhsan, M</td>
</tr>
<tr>
<td>Robot Arm Control by Hand Tracking Using Stereo Camera</td>
<td>9556-9558(3)</td>
<td>Sugandi, Budi; Alfianto, Ary; Toar, Handri</td>
</tr>
<tr>
<td>Long Term Stability Test of Biogas Production from Cattle Manure Using Rumen Fluid as Inoculum</td>
<td>9559-9562(4)</td>
<td>Budiyo; Sumardiono, Siswo; Widiasa, I. Nyoman; Matin, Hashfi Hawai Abdul</td>
</tr>
<tr>
<td>Controlling Robot Eyes Using Pupil Detection</td>
<td>9563-9566(4)</td>
<td>Pamungkas, Daniel S; Aditia, Erico; Toar, Handri</td>
</tr>
<tr>
<td>Implementation of Locality in the Interior to Strength the Identity of Indonesian Culture (Case Study: Ultimate Terminal 3 Soekarno Hatta International Airport Food Court)</td>
<td>9567-9571(5)</td>
<td>Putri, Debrri Haryndia; Rosyida, Novita; Veronika, Natasya</td>
</tr>
<tr>
<td>English Expressions in Javanese Conversations of Friends of English Department Students of Diponegoro University: Cognitive Linguistic Perspective</td>
<td>9572-9575(4)</td>
<td>Nirmala, Deli; Candria, Mytha</td>
</tr>
<tr>
<td>The School Type Choices and Employment Opportunities: The Case of Indonesia</td>
<td>9576-9579(4)</td>
<td>Pratomo, Devanto Shasta</td>
</tr>
<tr>
<td>Leakage Gas Detector Interconnected with 1 Phase Electrical Wiring Installation for Minimize Home Safety System</td>
<td>9580-9582(3)</td>
<td>Fittrin, Dhanis Woro; Giyatno, Selo Nur; Winarno, Hendi; Thufaila, Qonita; Tataka, Berdikaria Rangga</td>
</tr>
<tr>
<td>Title</td>
<td>Authors</td>
<td>Pages</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>Strategy of Hotel Marketing Management in Traditional Cultural Events in Solo</td>
<td>Sumarsono, Dicky; Sudardi, Bani; Warto; Wijaya, Mahendra</td>
<td>9583-9585(3)</td>
</tr>
<tr>
<td>Increasing Efficiency of Cassava Chips Water Removing by Using Stepped Conical Basket Centrifugal Dewatering Equipment</td>
<td>Ariwibowo, Didik; Indarto</td>
<td>9586-9588(3)</td>
</tr>
<tr>
<td>Energy Consumption Characteristics of Disc Mill to Produce Cob Flour</td>
<td>Ariwibowo, Didik; Mrihardjono, Juli; Handayani, Sri Utami</td>
<td>9589-9591(3)</td>
</tr>
<tr>
<td>Study of Process Optimization of Temperature and Long Drying of the Quality and Quantity of Starch from Sweet Potato</td>
<td>Elvia, Dina; Arifan, Fahmi; Mirvanda, Nindy; Devara, Hafiz Rama</td>
<td>9592-9594(3)</td>
</tr>
<tr>
<td>Design and Implementation of SCADA Training Module: Human Machine Interface (HMI) Based on Open Software</td>
<td>Tadeus, Dista Yoel; Yuniarto; Yuwono, Teguh</td>
<td>9595-9598(4)</td>
</tr>
<tr>
<td>The Development of Vocational Higher Education in Livestock Sector</td>
<td>Irawati, Diwi Acita; Karsidi, Ravik; Muktiyo, Widodo; Saputro, Sutrisno Hadi</td>
<td>9599-9601(3)</td>
</tr>
<tr>
<td>Effect of the Ni/Al₂O₃ Catalyst Synthesis Conditions at Application of the Solution Combustion Preparation Method on the Catalyst's Properties and Efficiency in the Process of Nanofibrous Carbons Synthesis from Methane</td>
<td>Kuvshinov, D. G; Kurmashov, P. B; Bannov, A. G; Siswanto, A. P; Popov, M. B; Cherkov, A. G</td>
<td>9602-9604(3)</td>
</tr>
<tr>
<td>Measures of Symbolic Tembang Dolanan Based on Facts How to Play in Javaansche Kinderspelen Naskah</td>
<td>Sulistyorini, Dwi; Suharso, Putut</td>
<td>9605-9606(2)</td>
</tr>
<tr>
<td>Title</td>
<td>Authors</td>
<td>Pages</td>
</tr>
<tr>
<td>-------</td>
<td>---------</td>
<td>-------</td>
</tr>
<tr>
<td>Effective Emulsifier Concentrate Liquid Insecticide to Eradicate Mosquito <em>Aedes aegypti</em> to Prevent Dengue Fever and Zika</td>
<td>Supriyo, Edy; Abidin, Zainal; Nugraheni; Handayani, Dwi</td>
<td>9607-9609(3)</td>
</tr>
<tr>
<td>A Detailed Study of Vibro Fluidized Bed Dryer Exergy and Energy Models of Tea Process Application</td>
<td>Yohana, Eflita; Natalio, Geny; Pachusadewo, Haryo; Romadhon, Revki; Indrayani, Novi Laura</td>
<td>9610-9612(3)</td>
</tr>
<tr>
<td>Studies of Physical Factors on Rare Collection Damage in Public Library and Regional Archives Malang</td>
<td>Wulandari, Eka Ratri Noor; Asri, Tri Mega; Pangestu, Putri</td>
<td>9613-9615(3)</td>
</tr>
<tr>
<td>Constitutive Parameters of the Extensional Flow Defined by an Inverse Method</td>
<td>Kuvshinova, Elena; Siswanto, Anggun Puspitarini; Zimmerman, William; Rees, Julia</td>
<td>9616-9619(4)</td>
</tr>
<tr>
<td>Preliminary Test on Cross Axis Type Wind Turbine</td>
<td>Achdi, Endang; Fajar, Berkah; Winoto, S. H; Lufti, Ibnu</td>
<td>9620-9622(3)</td>
</tr>
<tr>
<td>Representation of Academic Library Space as Interest Contestation</td>
<td>Fatmawati, Endang; Udasmoro, Wening; Noviani, Ratna</td>
<td>9623-9625(3)</td>
</tr>
<tr>
<td>Harmonics on Types of Energy Save Lights</td>
<td>Erlina</td>
<td>9626-9628(3)</td>
</tr>
<tr>
<td>The Acoustical Properties of Fiber Reinforced Polyester (FRP) Panel Made of Oyster Shell Waste</td>
<td>Setyowati, Erni; Hardiman, Gagoek; Purwanto, Purwanto</td>
<td>9629-9631(3)</td>
</tr>
<tr>
<td>NANURA O’SEMARANG (Oleh-Oleh Sehat Semarang) Layer Cake Fruits and Vegetables Rich in Fiber and Vitamins</td>
<td>Telussa, Ezra Sutaningtyas; Arianto, Maria Angelina; Wahyuni, Endah Sri; Kusumayanti, Heny</td>
<td>9632-9636(5)</td>
</tr>
</tbody>
</table>
Characterization of Enzyme Bromelain Through Immobilization in Polysaccharide
pp. 9637-9638(2)
Authors: Arifan, Fahmi; Pudjiastuti, Isti; Nugraheni, FS; Devara, Hafiz Rama; Nuswantari, Sri Risdhiyanti

The Analysis of Gojek as Mode Choice in Semarang Based on Stated Preference Data
pp. 9639-9641(3)
Authors: Suwarto, Fardzanela; Purwadi, Didik

Project Design of Smoked Fish Production House Integrated with Waste Treatment Unit in Bandarharjo, North Semarang
pp. 9642-9644(3)
Authors: Devara, Hafiz Rama; Nisa, Qurrotun Ayuni Khoirun; Siswanto, Anggun Puspitarini

Enhanced Biogas Production from Sawdust with Various Pretreatments During Solid-State Anaerobic Digestion: An Overview
pp. 9645-9647(3)
Authors: Ardhiansyah, Hanif; Budiyono

Study of 4G Network Services User Acceptance in the City of Malang (Indonesia) by Extended Technology Acceptance Model
pp. 9648-9650(3)
Authors: Abdullah, Harnan Malik; Widia, I Dewa Made; Mandita, Fridy

Optimization of C/N Ratio to Biogas Production from Rice Husk Waste by Using Solid State Anaerobic Digestion (SS-AD)
pp. 9651-9652(2)
Authors: Matin, Hashfi Hawali Abdul; Hadiyanto

Evaluation of Handling Policy Street Children Through Empowering the Parents in Semarang City
pp. 9653-9655(3)
Authors: Dwimawanti, Ida Hayu; Zakiyya, Ifwanda Mar’atuz

Sekolah Vokasi Sebagai Solusi Pengangguran Di Indonesia Vocational School as a Solution for Unemployment in Indonesia
pp. 9656-9658(3)
Authors: Dwimawanti, Ida Hayu; Zakiyya, Ifwanda Mar’atuz
Are There Any Differences Between *Arsiparis* and Independent Professional Record Manager?
pp. 9659-9661(3)
**Author:** Lawanda, Ike Iswary

Influence of Capacitor Using to Lighting Strong and Electrical Saving Use on Led Lamp and Energy Saving Lamp
pp. 9662-9664(3)
**Authors:** Setiono, Iman; Yuniarto

Stake Evaluation Model for Curriculum Evaluation of Electrical Engineering Study Program in Vocational High School
pp. 9665-9667(3)
**Authors:** Setiono, Iman; Soenarto; Soedarsono, FX

Microwave Assisted-Organosolv Pulping of Sugarcane Bagasse
pp. 9668-9670(3)
**Authors:** Hartati, Indah; Kholisoh, Ismiyatul; Suwardiyono; Riwayati, Indah

Moda Choice of Public Transportation on Banyumanik-Johar Route Based on Travel Time
pp. 9671-9674(4)
**Author:** Harjanti, Intan Muning

Smart Solar-Powered Street Light Monitoring and Control System
pp. 9675-9677(3)
**Authors:** Pujotomo, Isworo; Diantari, Retno Aita

Design Analysis of High Density Polyethylene Plastic in Fisherman Ship Structure
pp. 9678-9682(5)
**Authors:** Jamal; Haryanto, Edy

Instrumentation of 3D Positions for Topology Mapping Using Global Positioning System (GPS) and Barometric Pressure Sensors
pp. 9683-9686(4)
**Authors:** Suseno, Jatmiko Endro; Sitompul, Andreas; Setyawan, Agus; Gunadi, Isnain; Priyono; Widodo, Catur Edi

Dynamic Assessment to Improve Students’ Summary Writing in ESP Class
pp. 9687-9690(4)
**Authors:** Mauludin, Lutfi Ashar; Ardianti, Triubaida Maya
Ranking Consumers' Buying Decision Reasons on Organic Products: A Descriptive Study
pp. 9691-9694(4)
**Authors:** Permatasari, Maurisia Putri; Bahtera, Novyandri Taufik

The Development of Construction Supply Chain Model on Ready Mix Concrete with Value Stream Mapping Method
pp. 9695-9697(3)
**Authors:** Sholeh, Moh Nur; Fauziyah, Shifa; Darmo, Budhi; Widodo, Puji; Christiawan, Ignatius

Investigation on Hydrothermal Extraction Rate on Curcumin from *Curcuma domestica Val*
pp. 9698-9700(3)
**Authors:** Yulianto, Mohamad Endy; Amaliaa, Rizka; Paramita, Vita; Hartati, Indah; Handayani, Dwi; Eliana, Kartika Dian

Analysis of Marine Transportation Route Between Islands at Karimunjawa-Central Java
pp. 9701-9705(5)
**Authors:** Ridwan, Mohd; Zainuri, Muhammad; Waluyo, Bambang Sri; Sulaiman, H

The Role of ERP in Increasing Marketing Performance of SMEs in Central Java, Indonesia
pp. 9706-9709(4)
**Authors:** Mudiantono; Prasetiono; Mu'id, Dul; Laksito, Harry; Nugraheni, Rini

The Increasing of Sales Performance Through Shopping Emotion and Impulse Buying of the Customers in Supermarket
pp. 9710-9713(4)
**Authors:** Mudiantono; Warahma, Rizki; Soesanto, Harry; Santosa, Suryono Budi

The Effectiveness of Drying and Foraying Time on Making Ginger Dip by Using Random Variables
pp. 9714-9716(3)
**Authors:** Fawrin, NAILA RAHIMA; Arifan, Fahmi; Amalia, Lia; Devara, Hafiz Rama

Preference of Sales Force Criteria for Electronic Products Personnel
pp. 9717-9721(5)
**Authors:** Muna, Nalal; Fatmasari, Fajria

Cooperative and Poverty Alleviation: Exploring the Role and Effort of *Serba Usaha Melati* Cooperative in Wonyosono Village Semarang
pp. 9722-9725(4)
**Authors:** Marlina, Neny; Iskandar, Dian
<table>
<thead>
<tr>
<th>Title</th>
<th>Pages</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scaling Mitigation of Barium Sulfate in Vibrated Piping Systems</td>
<td>9726-9728(3)</td>
<td>Karaman, N; Mangestiyono, W; Muryanto, S; Jamari, J; Bayuseno, A. P</td>
</tr>
<tr>
<td>Increasing Reliability in Medium Voltage Air Channel Using Post Isolator Pin</td>
<td>9729-9732(4)</td>
<td>Pahiyanti, Novi Gusti; Sukmajati, Sigit</td>
</tr>
<tr>
<td>Application of Recycle and Reuse Technique for Commercial Building Interiors Design</td>
<td>9733-9735(3)</td>
<td>Rosyida, Novita; Putri, Debrti Haryndia; Gusti, R. Linggar</td>
</tr>
<tr>
<td>Text in Posters of Anti-Hoax Campaign</td>
<td>9736-9738(3)</td>
<td>Kurniasih, Nuning</td>
</tr>
<tr>
<td>Electronic School Books Dissemination Application for Batam Hinterland Schools</td>
<td>9739-9744(6)</td>
<td>Janah, Nur Zahrati; Rokhayati, Yeni; Kurniawan, Dwi Ely; Muvariz, Mufti Fathonah</td>
</tr>
<tr>
<td>Pre-Feasibility Study Yogyakarta City – Kulonprogo (Aerotropolis City) Using Hyperloop One Technology</td>
<td>9745-9749(5)</td>
<td>Putriani, Okkie; Fauzi, Ibnu</td>
</tr>
<tr>
<td>The Influence of Building Facade Design on Thermal Comfort in the Classroom Case Study: Nasima Elementary School Semarang</td>
<td>9750-9753(4)</td>
<td>Suradhuhita, Pratiwi Purnama; Hardiman, Gagoek; Setyowati, Erni</td>
</tr>
<tr>
<td>Acquisition of Shading Coefficient Value for OTTV Calculation on Multiple Glass Buildings by Using Autodesk Ecotect Software</td>
<td>9754-9757(4)</td>
<td>Pramesti, Previari Umi; Budi, Wahyu Setia; Setyowati, Erni</td>
</tr>
<tr>
<td>Library Management in Rural Based Community Participation</td>
<td>9758-9760(3)</td>
<td>Suharso, Putut; Sudardi, Bani; Widodo, Sahid Teguh; Habsari, Sri Kusumo</td>
</tr>
</tbody>
</table>
Comparative Effect of Roof Material Toward Thermal Condition on the Roof Space. Case Study: High Density Settlement in Semarang City pp. 9761-9763(3)
Authors: Widiastuti, Ratih; Prabowo, Bintang Noor; Bramiana, Chely Novia; Ramandhika, Mirza; Sukawi; Werdhiningsih, Hermin

Study of Universal Design Principles on Old City Open Space Elements pp. 9764-9766(3)
Authors: Widiastuti, Ratih; Harsritanto, Bangun I. R

The Use of English in the Literary and Cultural Engineering to Develop Tourism in the Tourism Objects of Jepara's Bandengan Beach and Kartini Beach pp. 9767-9769(3)
Authors: Asmarani, Ratna; Atrinawati, R. Aj

The Effect of Social Media Usage to the Nonfinancial Performance and Financial Performance of Small Medium Enterprises (SMEs) Kampung Batik Semarang pp. 9770-9773(4)
Authors: Werdani, Riandhita Eri; Djoko, W. Handojo

Seismic Risk Assessment of Buildings in Padang City, West Sumatra pp. 9774-9777(4)
Author: Mulyani, Rini

Test Stability of Natural Color Dyes from the Lether Fruit of Palm's Waste pp. 9778-9780(3)
Authors: Broto, R. TD. Wisnu; Supriyo, Edy; Abidin, Zainal; Sudarni, Iin; Ibrahim, M. Hanif

Does an Integrated Midwifery Curriculum Build a Better Understanding of Midwifery Profession is About Among First-Year Midwifery Student at Faculty of Medicine Padjadjaran University? pp. 9781-9783(3)
Authors: Nirmala, Sefita Aryuti; Judistiani, Tina Dewi

Effect of Advanced Steam Explosion on Fibrillating Snake Fruit (Sallaca) Frond Fiber pp. 9784-9787(4)
Authors: Darmanto, Seno; Rochardjo, Heru S. B; Widyorini, Ragil; Jamasri
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Writing and Translation of Local Folklore to Develop Local</td>
<td>Harsono, Siswo</td>
<td>9788-9790(3)</td>
</tr>
<tr>
<td>Tourism in Tegal Sambi Village, Tahunan District, Jepara Regency</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optimization of Total Solid (TS), Temperature, and Rumen Fluid</td>
<td>Sumardiono, Siswo; Matin, Hashfi Hawai Abdul; Widiasa, I. Nyoman; Budiyono</td>
<td>9791-9793(3)</td>
</tr>
<tr>
<td>Content During Biogas Production from Cattle Manure Using Response</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface Methodology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Quality of Analog Rice from Composite Flour: Modified Cassava</td>
<td>Sumardiono, Siswo; Pudjiastuti, Isti; Handayani, Noer Abyor; Kusumayanti,</td>
<td>9794-9796(3)</td>
</tr>
<tr>
<td>Flour, <em>Zea mays</em>, <em>Canavalia ensiformis</em> and <em>Dioscorea esculenta</em></td>
<td>Heny</td>
<td></td>
</tr>
<tr>
<td>Using Hot Extrusion</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Development of Papaya (Carica Papaya L) for Dried-Candied with</td>
<td>Nuswantari, Sri Risdhiyanti; Arifan, Fahmi; Setyawati, Linda; Devara, Hafiz Rama</td>
<td>9797-9799(3)</td>
</tr>
<tr>
<td>the Studies of Lime Water (Ca(OH)$_2$) Soaking Concentration and</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drying Time Process</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Effect of Overhaul on Thermodynamic Performance of Gas Turbine</td>
<td>Handayani, Sri Utami; Mangestiyono, Wiji; Ariwibowo, Didik; Haryadi, Okta;</td>
<td>9800-9802(3)</td>
</tr>
<tr>
<td>Generator in Combined Cycle Powerplant</td>
<td>Mujiarto, Iman</td>
<td></td>
</tr>
<tr>
<td>Thin Layer Modelling of Celery Leaf Under Vibrating Fluidized Bed</td>
<td>Handayani, Sri Utami; Atmanto, Ireng Sigit; Putri, Farika Tono; Yulianto,</td>
<td>9803-9805(3)</td>
</tr>
<tr>
<td>Drying Process</td>
<td>Mohamad Endy; Handayani, Dwi; Siswanto, Anggun Puspitarini</td>
<td></td>
</tr>
<tr>
<td>Tracing the Existence of Troso Weaving from a New Order Era to Early</td>
<td>Indrahti, Sri; Alamsyah; Maziyah, Siti</td>
<td>9806-9809(4)</td>
</tr>
<tr>
<td>Reformation Era Through Audio Archives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Implementation of Learning Management Based on Local Wisdom to</td>
<td>Sudarmiani; Jutmini, Sri; Baedhowi; Gunarhadi</td>
<td>9810-9812(3)</td>
</tr>
<tr>
<td>Increase Critical Thinking</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Pages</td>
<td>Authors</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>----------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Relationship of Wind Movement to Thermal Comfort at the Fencing House in Samarinda</td>
<td>9813-9815(3)</td>
<td>Betariah, Sukma; Budi, Wahyu Setia; Sari, Suzanna Ratih</td>
</tr>
<tr>
<td>The Comparison of Participation Level Between Urban-Type and Rural-Type Community in Supporting the Community-Based Village Road Development Program</td>
<td>9816-9821(6)</td>
<td>Prasetyo, Sumarhadi; Manaf, Asnawi</td>
</tr>
<tr>
<td>Fleet Management of the Travel Boat “Sopek Type” in Semarang</td>
<td>9822-9825(4)</td>
<td>Sugeng, Sunarso; Hutabarat, Sahala; Zainuri, Muhammad; Rosyid, Daniel M</td>
</tr>
<tr>
<td>Converging Curriculum of Accounting Vocational Education with Related Government's Policies</td>
<td>9826-9828(3)</td>
<td>Sururi</td>
</tr>
<tr>
<td>Aareapelajar.com Innovation of Web-Based Sociopreneur Development as Creative Solution to Overcome Costly Cost of Tutoring Guidance</td>
<td>9829-9831(3)</td>
<td>Susilowati; Hamam, Zainal</td>
</tr>
<tr>
<td>The Influence of C/N Ratio to Biogas Production from Water Hyacinth as an Aquatic Weed Plant During Liquid Anaerobic Digestion (L-AD)</td>
<td>9832-9834(3)</td>
<td>Syafrudin; Nugraha, Winardi Dwi; Munkar, Galih; Matin, Hashfi Hawai Abdul; Budiyono</td>
</tr>
<tr>
<td>Study on the Influence of L-AD (Liquid Anaerobic Digestion) and SS-AD (Solid-State Anaerobic Digestion) Methods to Biogas Production from Water Hyacinth (<em>Eichhornia crassipes</em>)</td>
<td>9835-9837(3)</td>
<td>Syafrudin; Nugraha, Winardi Dwi; Natalyn, Fabiola; Matin, Hashfi Hawai Abdul; Budiyono</td>
</tr>
<tr>
<td>Modification of Plugging Sensor Addition on Inlet Coal Pulverizer InPT PJB UBJOM PLTU Indramayu</td>
<td>9838-9841(4)</td>
<td>Hidayat, Syarif; Sutrisno, Gregorius</td>
</tr>
</tbody>
</table>
1. Nusa Penida Area Development as a Renewable Energy Resources for Bali Island
   pp. 9842-9844(3)
   **Author:** Darmana, Tasdik

2. How Students Perceived “Community Internship”: An Innovation for Vocational Studies in Midwifery Education at the Faculty of Medicine Universitas Padjadjaran
   pp. 9845-9848(4)
   **Authors:** Judistiani, Tina Dewi; Wijaya, Merry; Susanti, Ari Indra; Elba, Fardila; Didah; Sundari, Rikma P; Wardhani, Yusrima S; Fitriani, Balkis

3. The Application of Authentic Assessment to Help Students Learn to Read
   pp. 9849-9852(4)
   **Authors:** Ardianti, Triubaida Maya; Mauludin, Lutfi Ashar

4. Application of Flavonoid and Anthocyanin Contents from Rambutan (Nephelium lappaceum) Peel as Natural Dyes on Cotton Fabric
   pp. 9853-9855(3)
   **Authors:** Paramita, Vita; Kusumayanti, Heny; Wahyuningsih; Amalia, Rizka; Leviana, Wilandika; Nisa’, Qurrotun A. K

5. Pressurized Hot Water Extraction of Zingiber officinale Fresh Rhizome
   pp. 9856-9858(3)
   **Authors:** Paramita, Vita; Yulianto, Mohamad Endy; Hartati, Indah; Bahrudin, Udin; Amalia, Rizka; Kusumo, Priyono; Syah, Andi Nur Alam; Arimukti, Tedy Krisna

6. Axial Capacity of Concrete Filled Double Lip Channel
   pp. 9859-9862(4)
   **Authors:** Wahiddin; Dewi, Sri Murni; SMD, Agoes; Wisnumurti

7. The Reduction of H$_2$S of Biogas by Utilize Activated Sludge, Cow Rumen Fluid and Bacteria Culture in a Fermentative Biofiltration System
   pp. 9863-9865(3)
   **Authors:** Wahyuningsih; Paramita, Vita; Hartati, Indah; EndyYulianto, Moh; Wilandika

8. Fouling Resistance of CaCO$_3$ Scale on Shell and Tube Heat Exchanger in the Presence Formic and Oxalic Acid
   pp. 9866-9868(3)
   **Authors:** Mangestiyono, W; Raharjo, S; Sejati, A. W; Rozaqi, F

https://www.ingentaconnect.com/content/asp/asl/2018/00000024/00000012
Inhibition Efficiency of Formic and Oxalic Acid Additive on CaCO₃ Scale Formation of Shell and Tube Heat Exchanger Application
pp. 9869-9871(3)
Authors: Mangestiyono, W; Sutrisno; Mrihardjono, J

Investigation Ion Molecule Interaction of CaCO₃ Scaling Process on Shell and Tube Heat Exchanger by FTIR Spectroscopy
pp. 9872-9874(3)
Authors: Mangestiyono, W; Sutrisno; Mrihardjono, J

The Influence of NaOH Pretreatment to Biogas Production from Rice Husk Waste by Using Solid State Anaerobic Digestion (SS-AD)
pp. 9875-9876(2)
Authors: Nugraha, Winardi Dwi; Syafrudin; Permana, Windy Surya; Matin, Hashfi Hawali Abdul; Budiyono

The Effects of Acoustic Material as Absorption Material for Music Room Design by Using Reverberation Time Graph
pp. 9877-9881(5)
Authors: Silaban, Yessy Christanti; Setyowati, Erni; Hardiman, Gagoek

Hashtag Influence to the Truth Information: Case Study of Digital Native City of Semarang
pp. 9882-9883(2)
Authors: Rohmiyati, Yuli; Irhandayaningsih, Ana

The Role of Mothers in Media Literacy Assistance to Digital Native Children in Coastal Region in Developing National Character
pp. 9884-9885(2)
Authors: Rohmiyati, Yuli; Irhandayaningsih, Ana

The Development of Thermal Insulation System on Fish Cargo Hold by Utilizing Paper Waste (Cellulose) for Improving Catch Quality
pp. 9886-9889(4)
Authors: Ariany, Zulfaidah; Said, Solichin Djazuli; Hartono

The Sea Flow Optimizing the Turbine to Produce the Electrical Energy for Fuel Consumption Reducing of Catamaran Ship
pp. 9890-9892(3)
Authors: Ariany, Zulfaidah; Hariansyah, Rinaldi; Fajri, Muhammad; Eko, Maulana
Vibration Analysis of Steam Turbine Blade: A Finite Element Analysis

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A steam turbine is a device which converts heat energy to mechanical energy. The blade is one of the steam turbine components which its failure causes safety risks and repair cost. Hence, it is necessary to consider the basic design aspects of the blades. The study of vibration helps to investigate causes of failure in the blade which alters its dynamic characteristics. Therefore, this paper investigated vibration in two types of steam turbine blades called impulse and reaction using finite element analysis. Blades were modeled using a computer-aided design software. A 248 N widespread tangential force was applied to the blade. All materials were assumed linear, homogenous and isotropic. The root of blades was fitted in internal groove blade fastening. Based on results, deformation was higher in tip and middle of both impulse and reaction blades than their root. Impulse turbine blade in all four modes experienced lower maximum deformation than reaction one. Moreover, impulse turbine blade experienced higher frequency compared with reaction one in all modes except in the second mode of vibration. It can be concluded that the reaction turbine blades are about to failure considerably higher than impulse one in same conditions.

Keywords: Impulse and Reaction Steam Turbine, Finite Element Analysis, Blade, Vibration.

1. INTRODUCTION

The turbine is a device for transferring energy to or from a fluid through rotating blade rows. Rotary mechanical work is extracted which leads to a decreased pressure or applied for increasing the pressure of the fluid. The design of a turbine is complicated, therefore it considers resonance frequencies of the structures and vibrations. For high-pressure ratio turbines, transonic flow velocities occur which causes a new set of effects due to the compressibility of the flow.1,2

As blades are the principal elements that convert the energy of working fluid into kinetic energy, they are considered the heart of a turbine. The reliability and efficiency of a turbine depend on the suitable design of the blades. Hence, it is necessary for all engineers to have an overview of the significance and the basic design aspects of the steam turbine blades. Blade design is a multi-disciplinary task. It involves the aerodynamic, thermodynamic, material and mechanical science disciplines. Therefore, a perfect development of a new blade is feasible when experts of all these fields come together as a team.3 Turbine blades, and hence turbines having these types of blades, are categorized as reactions and impulse. The term reactions and impulse define the basic type of turbine. Apparently, both types of turbines appear equal, however main the difference is in the moving and fixed blade profiles. These profiles specify the velocity and direction of the steam which in turn governs the mode of energy transfer from the steam to the blades.2

In impulse profile, the whole heat drop of steam happens only in stationary blades. Though the theoretical impulse blades have zero pressure drop in the moving blades, there must be a small pressure drop across the moving blades too. Hence, the impulse stages have a small degree of reaction. The moving blades are keyed to the turbine shaft and the fixed blades are stabilized to the casing. At first step, the high-pressure steam coming from the boiler is expanded in the nozzle. The nozzle converts the pressure energy of the steam into kinetic energy. As the steam flows over the blades (due to the shape of the blades) it exposes some of its momentum to the blades and losses some velocity. A part of the high kinetic energy is absorbed by these blades and the rest is exhausted on to the next ring of the fixed blade. The function of the fixed blades is to redirect the steam leaving from the first ring moving blades to the second ring ones.

In the reaction turbine, pressure and velocity loss happens in the moving blades. The moving blades have a converging steam nozzle. Therefore, when the steam passes over the moving blades, it expands with the reduction in steam pressure and growth in kinetic energy. The reaction turbine has an identical number of fixed blades attached to the casing and as well as many rings of moving blades attached to the rotor. In this type of blades, the heat drop of the stage is distributed approximately identically between the moving and guide blades. The steam nozzles are attached to the rotor blades on opposite sides. The nozzles are
Experimental Static Cavitation Tunnel for Underwater Marine Propeller Cavitation Study

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The static cavitation tank set-up and experimental techniques were developed as a complete facility for investigating of underwater marine propeller cavitation flow as presented in this paper. This facility was developed to initiate experimental investigation of underwater marine propeller hydrodynamic with particular emphasis on the modeling and characterizing of propeller thrust and torque performances under cavitating flow. The static cavitation tank, dynamometer, controller, instrumentation and data acquisition were developed as a complete system with the computer aided design and engineering application tools. The system was designed for conducting the open-water test to characterize propeller performance (thrust and torque) as well as observation of cavitation phenomenon up to a maximum propeller rotation speed of 1200 RPM. A highly skewed commercial ‘J’ outboard marine propeller sample with different pitch distance values (248 mm [9.25 × 9.75J], 267 mm [9.25 × 9.75J] and 305 mm [9.25 × 12J]) were utilized to demonstrate the capability and functional of this developed facility. Experiment found that propeller thrust and torque characteristics increases in value along with increasing propeller rotation speed (100 RPM to 1200 RPM), which had conformed to the marine propeller performance convention. Propulsion operation range from 700 rpm to 1200 rpm had also satisfied well above the recommended minimum Reynolds number of 5 × 10⁶ for the flow to simulate a fully turbulent and matching condition of the actual physical model flow. Cavitation and cavitating flow was found to develop on the back section of propeller blade had steadily increased from 800 RPM onwards. Facility drawbacks such as limitation to zero advanced speed operation condition, maximum propeller rotation of 1200 RPM, pressure and velocity measurement ability and rebounding wave were also highlighted. This low cost and capability limitation facility was developed as a start for enhancing the University underwater marine propeller research activities.

Keywords: Marine Propeller Cavitation, Experimental Fluid Dynamic, Static Cavitation Tunnel.

1. INTRODUCTION

Cavitation phenomenon is an unwanted and unavoidable side effect of fluid flow in most hydro-machinery applications. It can result in highly detrimental effects to the hydro-machinery parts such as material erosion or thinning, reducing efficiency of overall performance, source of vibration and noise, and others.¹,² Noise and vibration effects generated are due to the main source of cavitation-induced pressure fluctuation on the hull.³ While the material erosion effect is due to the impact force generated by the continuous event of bubble collapse on the propeller surface.

The marine propeller cavitation phenomena prediction can be conducted either through experimental fluid dynamic—EFD or computational fluid dynamic—CFD to investigate the formation of cavitation occurrence prior to prototype. EFD is a main approach for carrying out hydrodynamic studies, but it is not cost effective due to extensive physical measurement and instrumentation devices and facilities. The EFD facilities such as cavitation tunnel, ship water basin, open sea and static tank are common facilities used in the marine propeller cavitation studies.

Charles Parsons was the main contributor of today’s EFD marine propeller cavitation studies. He had introduced the cavitation tunnel study on marine propeller cavitation and had shown the effectiveness of improving the ‘Turbinia’ propulsion system based on the propeller cavitation phenomena observation.⁴ The Charles Parsons cavitation tunnel design had since been a reference of marine propeller cavitation EFD facilities design and development. Up-to-date, most of the developed countries had established the hydrodynamic or marine transportation research and development centres, such Garfield Thomas Water Tunnel (Penn State Applied Research Laboratory, US), Emerson Cavi- tation Tunnel (University of Newcastle, UK), INSEAN Cavitation Facility (National Institute of Studies and Experiments in Naval Architecture, Rome), Samsung Cavitation Tunnel (Samsung Heavy Industries, South Korea). These cavitation tunnels were uneconomical facilities in both developing and operating. Studies carried out by Molland et al.⁵ and Li et al.⁶ had utilize the wind tunnel facility as the cavitation tunnel as alternative...
Forecasting Foreign Tourist in Thailand by Artificial Neural Network

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Tourism sector is an important sector for Thai economy even in the period of economic slowdown. Thai government has been allocated a significance budget to promote tourism. Then, number of foreign tourists during 2003 to 2015 increased sharply. The empirical works suggested that the number of foreign tourists is the most important variable to set up the policy for promoting tourism. Therefore, this paper aims to forecast the number of foreign tourist in Thailand for the variety of scenario including the normal, positive and negative condition by set up the model called Artificial Neural Network (ANN). The estimated ANN with quarterly data during 2003 to 2015 can be employed for ex post forecast with only 5.5 percent of forecast error. Tourist income and government budget to promote tourism, are the most important factors for forecast foreign tourists in Thailand. For the ex ante forecast, the results show the increasing in foreign tourists although the negative condition were assumed. For policy suggestions, the government budget should be implemented continuously to get the continuous growth in tourism sector. Moreover, the policy on supply side of the tourism sector should be implemented together with the government budget spending for promoting tourism in order to sustain the growing in tourism sector.

Keywords: Tourism in Thailand, Forecasting Tourist Number, Artificial Neural Network (ANN).

1. BACKGROUND

Tourism sector is an important sector for Thai economy even in the period of economic slowdown. Thai government has been allocated a significance budget to promote tourism (Fig. 1). Then, foreign tourism revenue has been increased rapidly and continuously since 2003. Not only in term of revenue but also in term of number. Figure 2 indicates a sharp increase in number of foreign tourists. During 2003 to 2015, the average growth of foreign tourist was 10.01 percent. The highest growth rate of foreign tourist was 20.67 percent in 2011. The increasing in foreign tourists induces the domestic demand in 16 sectors including hotel and lodging place, restaurant and drinking place, railways, route and non-route of road passenger transportation, road freight transportation, ocean transportation, coastal and inland water transport, ocean transport, water transport services, air transports, land transport supporting services, other services, library and museum, amusement and recreation, retail trade, personal services, and hospital. For the empirical views, Teresa (2007), Naude and Saaymom (2005), Dritskis (2004), Li (2004), Song et al. (2003), Song and Witt (2003), Ten et al. (2002), Kalendran and Witt (2001), Lim and McAleer (2001), Movlet (1998), Gonzalez and Moral (1995) and Witt and Witt (1995) suggested that the number of foreign tourists is the most important variable to set up the policy for promoting tourism.

There were many empirical works aimed to forecast the foreign tourists. Song and Li surveyed the empirical works which focused on forecast the number of foreign tourists. They found that more than twenty-five methods could be applied for forecasting foreign tourists. Bloom estimated a model called Artificial Neural Network (ANN) for forecasting the number of foreign visitor in Capetown, South Africa. Fenando (2005) applied ANN to forecast the number of foreign tourists in Japan. Fernandes set up ANN to forecast tourist in Portugal with the forecast error lower than 10 percent. Wei and Dai forecasted the number of tourists in China during the Golden Week with ANN. Kumar and Varshney architected ANN for India to forecast the number of foreign visitor in India. Kua, Chiang and Chiang estimated ANN for Taiwan. They found that ANN could forecast the foreign tourist with mean absolute percentage error (MAPE) less than 5.0 percent. Li et al. employed variety time series models to forecast visitors in the World Expo 2010, Shanghai. They found that ANN is the best method for forecasting foreign tourists. Nor et al., Claveria, Monte and Tora, Lin and Lee, Gjulapi and Durmshi (2014), Cankurt and Subasi, and Wang were forecast the number of foreign tourists in Malaysia, Spain, Taiwan, Albania, Turkey, and China, respectively. Cuhadar et al. set up different artificial neural network architectures to forecast tourism demand in Turkey. This paper found that generalized
Harmonic Current Reduction Using Soft-Switching Active Power Filter

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This paper presents a design of an active power filter (APF) circuit with soft switching features. Generally, the APF circuit is used for compensating power factor and harmonic current. However, when it operates at high frequency, switching loss is increased. The switching loss can be reduced by considering soft switching technique. This proposed soft switching APF circuit includes an auxiliary circuit of resonant of DC to DC converter. By using the auxiliary resonant circuit, switching loss in the APF circuit is reduced and the voltage or current is forced to zero for some duration. The advantages of the proposed APF circuit design are efficiency improvement voltage stress reduction, harmonics current reduction and power factor improvement. The proposed soft switching APF circuit is designed to be operated at 1 kW of rated power and 40 kHz of switching frequency. Sinusoidal line current and near unity power factor are achieved. The proposed APF circuit is designed using Matlab/Simulink. The results show that the proposed APF circuit able reduces harmonic current from 6.12% to 4.12% the IEEE 1159-1995 standard referred, and the power factor is improved from 0.9423 to 0.9999.

Keywords: Soft-Switching, Active Power Filter (APF), Total Harmonic Distortion (THD), Power Filter.

1. INTRODUCTION

The increasing usage of non-linear load such as microwave oven, variable speed drives, battery chargers, industrial electronic equipments and induction heating equipments causes degradation of power quality in power system.¹–³ The harmonic issue become significantly important to be concerned because it may cause overheating, low power factor, data losses, malfunction of the grid components, wiring failure, and blackout.⁴–⁵ Heavy harmonic distortion will shorten the lifetime of electrical appliances and increases heating of electrical insulation. The effect of harmonics in distribution power system lines is losses increasing and will degrade the quality of the power supplied.

Nevertheless, there are several methods to reduce harmonic current that have been used by previous researchers, typically the methods based on passive filter and active filter principles.⁶ The passive filter method still possesses many disadvantages such as tuning problem, parallel and series resonance with source voltage harmonics, dimensions and weight of the device are large.⁷,⁸

The active power filter (APF) is designed to reduce harmonic current and improve power factor. The comparison with the passive filter, APF is avoidable for potential resonance, flexible control, accurate in parametric design, and small in size and effective to suppress the harmonic components in a system.⁹,¹⁰ Thus a single phase APF topology based on load current with APF compensation can be considered. But in some cases when the high switching frequency is used, causes switching loss. In order to overcome of drawback hard switching issue, zero voltage switching (ZVS) and zero current switching (ZCS) based on soft switching technique can be considered.¹¹ This proposed APF use soft switching technique that is coupled with a resonant circuit in the DC to DC converter is an attractive option. The auxiliary switch of the high frequency arm turns on with ZVS and operated turn off with ZCS.

In this paper, comparison APF proposed APF with non-linear load is considered in reducing THD current source and improve power factor is clarified. This proposed analysis of APF operation stages can be divided into six as shown in Figures 1 and 2.

2. METHODS

2.1. Soft-Switching APF Configuration

In the generally a single phase active power (APF) is consisted of four MOSFETs by bridge single phase method connected with a series inductor ($L_s$). The proposed soft-switching APF using an auxiliary resonant circuit as Figure 1. The purpose of APF circuit is suppressed harmonic component generated by nonlinear load.¹²–¹⁴ It consists switching APF proposed...
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- Prof. Takehiko Otsuka (National Institute of Technology, Akashi College, Japan)
- Prof. Dr. Ir. Sigit Pranowo Hadiwardoyo, DEA (Universitas Indonesia, Indonesia)
- Prof. Dr. Ir. Budiyono, MSI (Diponegoro University, Indonesia)
- Prof. Tubagus Ahmad Fauzi Soelaiman (United Nations Education, Scientific and Cultural Organization, France)
- Dr. Hadiyanto, ST, MT (Diponegoro University, Indonesia)
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Email: icovar@live.undip.ac.id

Important Dates
- 27th July 2018 : Abstract submission deadline
- 10th August 2018 : Notification of accepted abstracts
- 17th August 2018 : Early Bird Registration Deadline
- 6th September 2018 : Normal Registration Deadline
- 12th September 2018 : Full paper submission deadline
- 13th - 14th September 2018 : Conference days
- 15th September 2018 : One-day tour
International Conference of Vocational Studies on Applied Research

Aston Semarang Hotel and Convention Center

September 13, 2017 – September 15, 2017

International Conference of Vocational Studies on Applied Research 2017 aims to showcase research applications conducted by Indonesian researchers and international participants. ICoVAR 2017 is hosted by Vocational School, Diponegoro University (UNDIP) which will be held on September, 13th-15th, 2017 in Semarang, Indonesia. Research gap between academic and industries has become a major challenge which is expected to be addressed during the conference. Further implementation of presented research to scientific development is also expected as the outcome of this conference. We invite researchers, academics, industrial partners, students and practitioners to take part in development and innovation in the area of vocational studies and applied research.

All accepted and presented papers will be published in Advanced Science Letters Proceeding which is indexed by SCOPUS*.

* = subject to review process with no additional cost incurred.

Keynote Speakers

Prof. Drs. H. Muhammad Nasir, M.Si, Ak, Ph.D, CA, Minister Of Research, Technology and Higher Education of Indonesia

Ganjar Pranowo, SH, MIP, Governor of Central Java Province, Indonesia

Prof. Dr. Ir. Sigit Pranowo Hadiwardoyo, DEA, Head of Indonesian Forum of Vocational Higher Education, Indonesia

Muliaman D. Hadad, Otoritas Jasa Keuangan, Indonesia

Professor Takehiko Otsuka, Akashi National College of Technology, Japan

Dr Jagroop Pandhal, University of Sheffield, United Kingdom

Andrea Nicola Weiss, Practitioner of Nature Resources, Switzerland

Topics of interest for submission on this conference are as follow, but not limited to:

Vocational Studies
Engineering Technology

Conference Fee

International Participants

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<tr>
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<td>USD 100</td>
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Local Participants

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<td>Additional Paper</td>
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*Early Bird deadline will be at August 15, 2017

Contact Person:

Contact person : Anggun Siswanto (+62 81331698773)
Arkhan Suban (+62 8995583730)
**Information is subject to alterations. Further updates will be notified later**

## Conference Information

- [Overview](#)
- [Registration](#)
- [Accommodation](#)

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Diponegoro University
Prof. Sudarto, SH Street, Tembalang, Semarang
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CERTIFICATE

This certificate is awarded to

Ir. Eflita Yohana, M.T., PhD

as a Presenter

in The International Conference of Vocational Studies on Applied Research (ICoVAR) 2017,
Vocational School, Diponegoro University
13-15th September 2017

Dean of Vocational School
Diponegoro University
Prof. Dr. Ir. Budiyono, M.Si

The ICoVAR 2017
Chair of Organising Committee

Anggun Puspitarini Siswanto, ST, PhD