LEMBAR HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW KARYA ILMIAH : PROSIDING

Judul Karya Ilmiah (paper)	Sensitivity Analysis of Tall Buildings in Semarang, Indonesia Due to Fault Earthquakes with Maximum 7 Mw				
Jumlah Penulis	: 5 Penulis (Windu Partono, Bambang Par : Rouli Dian Chintami)	Penulis (Windu Partono, Bambang Pardoyo , Indrastono Dwi Atmanto, Lisa Azizah Pouli Dian Chintami)			
Status Pengusul	: penulis pertama/ penulis ke 2/ penulis ke	orespodensi			
Identitas Karya Ilmiah	: a. Nama Prosiding	: AIP Conference Proceedings Vol. 1903 Issue 1, International Conference on Construction and Building Engineering (ICONBUILD-2017), (Prosiding Internasional)			
	b. ISBN/ISSN	: ISBN: 978-0-7354-1591-1			
	c. Tahun Terbit, Tempat Pelaksanaan	: Palembang, 14-16 Agustus 2017 : AIP Conference Proceedings			
	d. Penerbit/ Organizer				
	e. Alamat repository PT/web prosiding :				
	htt	p://aip.scitation.org/doi/abs/10.1063/1.5011488			
	f. Terindeks di (jika ada)	: Scopus			
Kategori Publikasi Jurnal Ilm	iah : 🗹 Prosiding forum ilmiah	Internasional			
(contropada Mategori Jung tep	Prosiding forum ilmiah	Nasional			
Hasil Penilaian Peer Review :		MORVIMA			

		Nilai R	Nilai	
	Komponen Yang Dinilai	Reviewer I	Reviewer II	Rata-rata /Nilai Akhir yang diperoleh
a.	Kelengkapan unsur isi prosiding (10%)	3.00	3.00	3.00
b.	Ruang lingkup dan kedalaman pembahasan (30%)	8.25	8.80	8.525
c.	Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	7.50	8.80	8.15
d.	Kelengkapan unsur dan kualitas penerbit (30%)	8.10	9.00	8.55
	Total = (100%)	26.85	29.60	28.225

Penulis ke 2 dari 5 = 28.225 x 10% = 2.82

Reviewer I

Prof. Dr. Ir. Han Ay Lie, M.Eng NIP 1955/1091985032002 Unit kerja : Departemen T.Sipil FT.UNDIP

Reviewer II

Prof. Dr. Ir. Sri Tudjono, MS NIP .195303091981031005 Unit kerja : Departemen T.Sipil FT.UNDIP

LEMBAR HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW KARYA ILMIAH : PROSIDING

Judul Karya Ilmiah (paper) Jumlah Penulis	sitivity Analysis of Tall Buildings in Semarang, Indonesia Due to Fault Earthquakes with ximum 7 Mw rang (Windu Partono, Bambang Pardoyo, Indrastono Dwi Atmanto, Lisa A, Rouli Dian C)			
Status Pengusul :	penulis pertama /penulis ke 2 / penulis korespodensi			
Identitas Karya Ilmiah :	 a. Nama Prosiding b. ISBN/ISSN c. Tahun Terbit, Tempat Pelaksanaan AIP Conference Proceedings Vol. 1903 Issue 1, "International Conference on Construction and Building Engineering (ICONBUILD-2017)", (Prosiding Internasional) ISBN: 978-0-7354-1591-1 14 November 2017, (Palembang, 14-16 Agustus 2017) 			
	d. Penerbit/ Organizer: AIP Publishinge. Alamat repository PT/web prosiding: http://aip.scitation.org/doi/abs/10.1063/1.501148f. Terindeks di (jika ada): SCOPUS			
Kategori Publikasi Karya Ilmia (beri √pada kategori yang tepa	h : M Prosiding forum ilmiah Internasional t) Prosiding forum ilmiah Nasional			

Hasil Penilaian Peer Review :

	Nilai Maksimal Prosiding		Nilai Yang Diperoleh
Komponen Yang Dinilai	Internasional	Nasional	
a. Kelengkapan unsur isi prosiding (10%)	10		3
 B. Ruang lingkup dan kedalaman pembahasan (30%) 	27.5		8.25
c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	25		7.5
d. Kelengkapan unsur dan kualitas penerbit (30%)	27		8.1
Total = (100%)			26.85

Catatan Penilaian artikel oleh Reviewer:

a) Daftar isi, peer review statement ada, reviewer maupun perserta memenuhi persyaratan berasal dari 4 negara. Prosiding jelas, paper berasal dari berbagai institusi luar dan dalam negeri, kerja sama dengan UTM Malaysia

- b) Analisa dipusatkan pada perilaku 8 gedung tinggi di wilayah Semarang. Data ini membuat hasil penelitian cukup komprehensif. Keterangan gambar kecil dan sulit dibaca. Time history yang digunakan sebagai dasar analisa global, dan memilih sampling wilayah dengan risiko gempa tinggi
- c) Hasil analisa mendalam, namun kesimpulan yang disajikan sebatas pernyataan, dan belum mengedepankan kemanfaat studi ini. Potensi dari penelitian ini tinggi, karena menawarkan metoda yang relatif murah dengan angka ketelitian tinggi
- d) AIP sampai pada tahun ini (2019) masih memperoleh index Scopus, dan Unsri maupun UTM adalah perguruan tinggi dengan reputasi bagus, sehingga selaku penyelenggara dinilai cukup mampu untuk menyiapkan berkas prosiding

Penulis I :0.4 x 26.58 = 10.632

Semarang, Reviewer r. Han Ay Lie, M.Eng. Prof. Dr.

Prof. Dr. Yr Han Ay Lie, M.Eng. NIP. 1956/1091985032002 Unit kerja : Departemen Teknik Sipil FT UNDIP

LEMBAR HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW KARYA ILMIAH : PROSIDING

Judul Jurnal Ilmiah (paper)	: Sensitivity Analysis of Tall Buildings in Semarang, Indonesia Due to Fault Earthquakes with Maximum 7 Mw				
Jumlah Penulis	: 5 orang (Windu Partono,	Bambang Pardoyo	, Indrastono Dwi Atma	nto, Lisa A, Rouli Dian C)	
Status Pengusul	: penulis pertama/penulis k	e 2 / penulis kores	podensi		
Identitas Jurnal Ilmiah	 a. Nama Prosiding b. ISBN/ISSN c. Tahun Terbit, Tempa d. Penerbit/ Organizer e. Alamat repository P f. Terindeks di (jika ada 	: t Pelaksanaan : T/web prosiding : a) :	AIP Conference Proce "International Confere Building Engineerin (Prosiding Internasional ISBN: 978-0-7354-159 Palembang, 14-16 Ag AIP Publishing http://aip.scitation.org/o SCOPUS	eedings Vol. 1903 Issue 1, ence on Construction and g (ICONBUILD-2017)", al) 11-1 ustus 2017 doi/abs/10.1063/1.5011488	
Kategori Publikasi Jurnal Ilmiah : M Prosiding forum ilmiah Internasional					
(beri ✓ pada kategori yang tepat) Prosiding forum ilmiah Nasional					
Hasil Penilaian Peer Review	Hasil Penilaian Peer Review :				
		Nilai Mak	simal Prosiding	Nilai Yang Diperoleh	
Kom	onen	Internasional	Nasional		

Komponen Yang Dinilai	Internasional	Nasional	
a. Kelengkapan unsur isi prosiding (10%)	3.00		3.00
b. Ruang lingkup dan kedalaman pembahasan (30%)	9.00		8.80
 Kecukupan dan kemutahiran data/informasi dan metodologi (30%) 	9.00		8.80
 Kelengkapan unsur dan kualitas penerbit (30%) 	9.00		9.00
Total = (100%)	30.00		29.60

Catatan Penilaian artikel oleh Reviewer:

- a. Kelengkapan unsur isi prosiding lengkap
- b. Ruang lingkup dan kedalaman pembahasan 1 pustaka yang disitasi dalam pembahasan , pembahasan dalam rangka penyempurnaaan pustaka tersebut
- c. Kecukupan dan kemutahiran data/informasi dan metodologi 5 pustaka dari 12 pustaka terbitan 5 tahun terakhir
- d. Kelengkapan unsur dan kualitas penerbit: Penerbit terindeks scopus

Semarang, Reviewer

Prof. Dr. r. Sri Tudjono, MS. NIP. 195303091981031005 Unit kerja : Departemen Teknik Sipil FT UNDIP



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The 3rd International Conference on Constructions and Building Engineering 2017

August 14 - 17, 2017

Palembang, Indonesia

Certificate of Appreciation

present to

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in recognition and appreciation of your contribution as

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Executive Chairman

Prof. Dr. Ir. H. Anis Saggaff, MSCE

ICON BUILD 2017

PROGRAM AND ABSTRACTS

INDEXED BY

The 3rd International Conference on Constructions and Building Engineering (ICONBUILD 2017) August 14 - 17, 2017 Palembang, Indonesia

"Smart Constructions Toward Global Challenges"





Palembang, Indonesia 14-17 August 2017

KEYNOTE SPEAKERS



Prof. Datuk Ir. Dr. Wahid Omar V.C. Universiti Teknologi Malaysia, Malaysia

Wahid Omar is a Professor of Structural Engineering at the Faculty of Civil Engineering, Universiti Teknologi Malaysia (UTM). He was appointed as the Vice-Chancellor of UTM in September

2013. He obtained his Ph.D.in Structural Engineering from the University of Birmingham, his Master's degree in Bridge Engineering from the University of Surrey, and his Bachelor of Science in Civil Engineering degree from the University of *Strathclyde*, United Kingdom. He is a Fellow of the Institution of Engineers Malaysia, a registered Professional Engineer with the Board of Engineers Malaysia and a member of various professional bodies. He is also an Honorary Member of the ASEAN Federation of Engineering Organization (AFEO). His areas of expertise include structural assessment, reinforced and pre-stressed concrete and ductility of high strength concrete and project management. Prior to his present appointment, he was the Deputy Vice-Chancellor (Development) (2011-2013) and the Director of the Office of Asset and Development, he was entrusted with a major task to manage UTM campus development projects worth RM1 billion.

Advocating Mindset for Cooperative Partnership for Better Future of Construction Industry

Construction industry players are known for their low acceptance on the changes. Hence, it is identified that the biggest challenge in the industry is changing the mindset. This paper highlights the importance of transformation in shaping for better future of the industry. Transformation favors innovation and progressive development in the industry and specifically in managing a project. Thus changes in mindset of players with an eye to the future and focus on what is coming are paramount in inculcating the transformation culture in construction eco-system. The key to the success of transformation is the collaborative and cooperative partnering which ensuring the performance of every stage of project delivery. The collaborative, cooperative, and concerted effort of all parties involved in the project create mutual understanding on mission and vision of project. Adopting healthy and harmonious project culture, implementing innovative procurement that emphasis on fair risk sharing. This cooperative partnership should be the future of the project undertaking in the construction industry.





Prof. Dr. Ir. Anis Saggaff, MSCE Rector of Sriwijaya University, Indonesia

Prof. Dr. Ir. H. Anis Saggaff, MSCE is the Rector of Sriwijaya University, South Sumatera, Indonesia for period of 2015 – 2019. He was bord on Octorber 28th 1962. He got a bachelor degree in Civil Engineering at Sriwijaya University in

1986, obtained his Master of Science in Prestressed Structures in Civil Engineering Department at University of Kentucky USA in 1994, and awarded PhD in Steel Composite and Structure from Universiti Teknologi Malaysia (UTM) in 2007. He has been Lecturer in Civil Engineering Department of Engineering Faculty and a Researcher at Sriwijaya University since 1987. He becomes a Professor in the field of Cold Formed Steel science May 1, 2013. Prof. Dr. Ir. Anis Saggaff, MSCE is a head of Structure and Construction Research Laboratory (SCRL) Sriwijaya University. His research interests are steel, concrete, wood design, composite building structure and composite bridges design. His works have been published in many international and national journals. He also actively participates in national and international conference as Speakers, Steering Committee and Scientific Committee. He participated in several workshops overseas and domestic, such as Short Course; Laminated Wood for Construction in Kyoto, Japan (2002) which held by Wood Research Institute (WRI) University of Kyoto Japan (JSPS – LIPI).

Structural Aspects of Cold-Formed Steel Section Designed as U-Shape Composite Beam

Composite beam construction usually associated with old-style Hot-Rolled Steel Section (HRSS) has proven to act much better in compare with Cold-Formed Steel Section (CFSS) sections due to thicker section. However, the use of cold-formed steel section as composite beam is getting popular to replace HRSS in some aspects of design such as composite beam due to its advantages. The advantages such as lightweight, cost effective and easy to install have contributed to the use of cold-formed steel as a preferred construction material for composite beam design. There is a few technical data available regarding the application of composite systems that incorporates the use of CFSS, despite the potentials of the system in residential and light industrial constructions. This paper presents on experimental tests results which have been conducted using CFSS as composite beam. Composite action of CFSS arranged as double beam with Self-Compacting Concrete (SCC) slab are integrated together with bolted shear connectors were used. A full-scale test comprised of 3 proposed composite beam specimens with bolted shear connector spaced at 300mm interval of grade 8.8 was installed with single nut and washer on the CFS flange, cast to slab and tested till failed. The experimental test results show that the bolted shear connector possessed good ultimate strength and ultimate moment capacities for the proposed composite beam. It was therefore concluded that, bolted shear connectors of 16mm in diameter performed better than the rest of bolted shear connectors.





Prof. Kohei Komatsu, Dr. Agric. SCI Research Institute for Suistainable Humanosphere (RISH), Kyoto University, Japan

Prof. Kohei Komatsu, Dr. Agric. SCI. is a Researcher at Laboratory of Structural Function, Research Institute for Sustainable Humanosphere at Kyoto University, Japan and Distinguished Professor of Nanjing Forestry University,

Department of Timber Construction, College of Materials Science and Engineering, Nanjing Forestry University, China. He Obtain his Degree of "Doctor of Agriculture" with thesis titled "Application of Fracture Mechanics to Timber Adhesive Joints" in 1977 from Kyoto University. Professor Kohei Komatsu received "Fiscal 2004 Hideo Sugiyama Award" from Japan Timber Engineering Society, for the work titled as "Application and Popularization of Drift-Pinned Joints to Glulam Structures". During his involvement in research, publication and study for the last 40 years, he has published more than 120 indexed journals domestic and international with 371 citations and also he is an active lecturer in many university around the world. His main area of research and expertise is timber structures and joints. His experience in International Conferences is heavily acquired including as a Chairman, Invited speaker and Key-note speaker. He was entrusted as a Principle researcher of the Grant-in-aid for Scientific Research-B2 with the total amount of budget of ¥16,000,000 "Development and Analyses on Strength Enhancement Mechanism of Innovative Wooden Post & Beam Structures in Which Material's Characteristics are Optimized"

Development of Stiffer and Ductile Glulam Portal Frame

Portal frame structures, which are constituted of straight glulam beams and columns connected semi-rigidly by steel insert gusset plate with a lot of drift pins, were the first successful wooden structures widely used in Japan. In addition to this connection system, the author invented also a new type of jointing devise for glulam structures named as "Lagscrewbolt" which had a full threaded portion at inner part to grip wooden member as well as another thread part at the end of shank to connect with other member. The initial type of "Lagscrewbolt" was successfully applied to a various types of glulam buildings which could be rapidly built-up on construction site. Its strength performance, however, was rather brittle therefore the improvement of the ductility was a crucial research subject. In order to give a sufficient ductility on the "Lagscrewbolted joint system", so-called "Slotted Bolted Connection" concept was adopted for making use of large energy dissipation characteristics due to high-tension bolted steel connection with slotted bolt holes. Static & dynamic performance of glulam portal frame specimens was evaluated by static cyclic loading test as well as shaking table test. Current latest form of the jointing system can show very high ductility as well as stable hysteretic cyclic loops by inserting brass-shim between steel-to-steel friction interface.



COMMITTEES

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. Table of Contents

PROCEEDINGS OF THE 3RD INTERNATIONAL CONFERENCE ON CONSTRUCTION AND BUILDING ENGINEERING (ICONBUILD) 2017: Smart Construction Towards Global Challenges

Conference date: 14-17 August 2017 Location: Palembang, Indonesia ISBN: 978-0-7354-1591-1 Editors: Saloma Volume number: 1903 Published: Nov 14, 2017



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PRELIMINARY

Free . November 2017

Preface: The 3rd International Conference on Construction and Building Engineering (ICONBUILD 2017)

AIP Conference Proceedings 1903, 010001 (2017); https://doi.org/10.1063/1.5011479

Free . November 2017

Committees: The 3rd International Conference on Construction and Building Engineering (ICONBUILD 2017)

AIP Conference Proceedings 1903, 010002 (2017); https://doi.org/10.1063/1.5011480

STRUCTURE AND CONSTRUCTION ENGINEERING

Free . November 2017

Experimental study on the impact of rain water puddle of asphalt pavement structure

Firdaus Chairuddin

AIP Conference Proceedings 1903, 020001 (2017); https://doi.org/10.1063/1.5011481

SHOW ABSTRACT

Free . November 2017

Analysis of rotational and sliding collapse modes of masonry arches via Durand-Clave's method

BROWSE VOLUMES

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Free . November 2017

Experimental behaviour of beam-column connection using cold-formed steel sections with rectangular gusset-plate

K. M. Aminuddin, Anis Saggaff and Mahmood Md Tahir

AIP Conference Proceedings 1903, 020006 (2017); https://doi.org/10.1063/1.5011486

SHOW ABSTRACT

Free . November 2017

Bonding capacity of the GFRP-S on strengthened RC beams after sea water immersion

Mufti Amir Sultan and Rudy Djamaluddin

AIP Conference Proceedings 1903, 020007 (2017); https://doi.org/10.1063/1.5011487

SHOW ABSTRACT

Free . November 2017

Sensitivity analysis of tall buildings in Semarang, Indonesia due to fault earthquakes with maximum 7 Mw

Windu Partono, Bambang Pardoyo, Indrastono Dwi Atmanto, Lisa Azizah and Rouli Dian Chintami

AIP Conference Proceedings 1903, 020008 (2017); https://doi.org/10.1063/1.5011488

SHOW ABSTRACT

:

:



PARALLEL SESSIONS

SUBTOPIC: SCE-001 - SCE-046

	Ballroom 2 - Session I - 15 August 2017 (13.00 - 15.00)						
No.	Time	Paper ID	Title	Authors	Affiliation		
1	13.00 - 13.15	SCE-001	Experimental Study on The Impact of Rain Water Puddle of Asphalt Pavement Structure	Firdaus Chairuddin	Civil Engineering, Hasanuddin University		
2	13.15 - 13.30	SCE-002	The Effectiveness of Nonlinear Acoustic Testing for Evaluation of Damage in Concrete being Exposed at Elevated Temperature	Rabah Hammoud and Hatem Mrad	Ecole Polytechnique de Montreal, Montreal (Qc), Canada.		
3	13.30 - 13.45	SCE-003	Influence of Partial Pre-stressing Ratio Level to the Energy Dissipation and Ductility of Reactive Powder Concrete Beam-Column Joint Sub-assemblages	Siti Aisyah Nurjannah, Bambang Budiono, Iswandi Imran, and Saptahari Sugiri	Balai Diklat PUPR II, Ministry of Public Works and People Housing		
4	13.45 - 14.00	SCE-004	Analysis of rotational and sliding collapse modes of masonry arches via Durand- Claye's method	Riccardo Barsotti, Danila Aita, and Stefano Bennati	Department of Civil and Industrial Engineering, University of Pisa, Largo Lazzarino, 56122 Pisa, Italy		
5	14.00 - 14.15	SCE-005	Construction Method And Performance of Bugis Traditional House In Wind Disasters	Hartawan Madeali, B. Suhendro, E.Pradipto [,] and A.Kusumawanto	Architecture Department, Faculty of Engineering, Hasanuddin University, Makassar, Indonesia		
6	14.15 - 14.30	SCE-006	Predicting Shear Critical Behavior of High- Strength Reinforced Concrete Columns Using Finite Element Methods	Harun Alrasyid, Fahrudin Safi, Data Iranata, Pujo Aji, and Yu Chen-Ou	Civil Engineering Department, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia		
7	14.30 - 14.45	SCE-007	Arizu Sulaiman, Noraini Mohd Salleh, Nuraziyati Sukardi, Tan Cher Siang and Anis Saggaff	Experimental Evaluation of Composite Beam-to-Column Joint Using Cold-Formed Steel Sections	UTM Construction Research Centre (UTM-CRC), Faculty of Civil Engineering, Universiti, Teknologi Malaysia, 81310 Johor Bahru, Johor, Malaysia		
8	14.45 - 15.00	SCE-008	Altho Sagara, Adrian Firdaus, Handrawan Anggara and Winda Herviani Putri	Existing Structure Modelling and Retrofitting of Bridge Column Defect	Civil Engineering Department, Faculty of Engineering, Parahyangan Catholic University, Bandung, Indonesia		

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Palembang, Indonesia 14-17 August 2017

	Ballroom 2 - Session II - 15 August 2017 (15.15 – 17.15)						
No.	Time	Paper ID	Title	Authors	Affiliation		
1	15.15 - 15.30	SCE-009	Increased of Capacity Integral Bridges with Reinforced Concrete Beams for Single Span	N. Retno Setiati and Septinurriandiani	Institute of Road Engineering, and Development Agency, The Ministry of Public Works and Public Housing, Indonesia		
2	15.30 - 15.45	SCE-010	Wind Tunnel Test of Musi VI Bridge	Robby Permata, Matza Gusto Andika, Syariefatunnisa,Eri Risdhiawan, Budi Hermawan, dan Indra Noordiana	Universitas Bung Hatta, Civil Engineering Department, Sumatera street – Ulak Karang Padang 25133, Indonesia		
3	15.45 - 16.00	SCE-011	Feasibility of ISO Shipping Container as Transitional Shelter- A Review	Philip Ling Chie Hui and Tan Cher Siang	Faculty of Civil Engineering, Universiti Teknologi Malaysia, Johor Bahru, Malaysia		
4	16.00 - 16.15	SCE-012	Image-Based Non-Destructive Evaluation Method for Building Condition Assessment	Hui Lin Ng, Siow Wei Jaw, Mazlan Hashim, Poi Ngian Shek, and Kar Seong Lim	Geoscience & Digital Earth Centre (INSTeG), Research Institute of Sustainable Environment (RISE), Universiti Teknologi Malaysia (UTM), Johor Bahru, Malaysia		
5	16.15 - 16.30	SCE-013	Effects of bleeding on corrosion of horizontal steel bars in reinforced concrete column specimen	Sandra Nevy, Keiyu Kawaai, Isao Ujike, Nakai Ippei, and Nsama Willick	Department of Civil and Environmental Engineering, Ehime University, 3, Bunkyocho, Matsuyama, Ehime, Japan		
6	16.30 - 16.45	SCE-014	Construction Cost Index : A Case Study In Malaysia	Chai Chang Saar, Loo Siaw Chuing, Aminah Md Yusof, Rozana Zakariaand Theong May Chuan	Department of Structure and Materials, Faculty of Civil Engineering, Universiti Teknologi Malaysia, 81310 Skudai, Johor, Malaysia		
7	16.45 - 17.00	SCE-015	Experimental Behaviour of Beam-Column Connection using Cold-Formed Steel Sections with Rectangular Gusset-Plate	K.M. Aminuddin, Anis Saggaff, and Mahmood Md Tahir	Civil Engineering Department, Faculty of Engineering, Sriwijaya University, Indonesia		
8	17.00 - 17.15	SCE-016	Implementation of Industrialized Building System (IBS) in West Sumatra Construction Industry	Alzahri, Rosli Mohamad Zin, Indra Farni, Edrizal, Elfi, and Saeed Balubai	Faculty of Civil Engineering, Universiti Teknologi Malaysia 81310 Skudai, Johor Bahru, Malaysia		