

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

Judul karya ilmiah (paper) : Evaluation of The Use of Prefabricated Bridge Elements With Design For Manufacture And Assembly (DFMA) Criteria

Jumlah Penulis : Yan Purnomo Safaa, Jati Utomo Dwi Hatmoko, Bambang Purwanggono

Status Pengusul : Penulis ke-3

Identitas Makalah : a. Judul Prosiding : Proceedings of The 2nd Conference for Civil Engineering Research Networks (ConCERN-2 2018)

b. eISSN : 2261-236X

c. Tahun Terbit, Tempat Pelaksanaan : 22 Februari 2019, Bandung

d. Penerbit/organiser : MATEC Web of Conferences

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f. Terindeks di (jika ada) : SCOPUS

g. Turnitin Similarity :

Kategori Publikasi Makalah : \surd Prosiding Forum Ilmiah Internasional
 Prosiding Forum Ilmiah Nasional

Hasil Penilaian Peer Review :

Komponen Yang Dinilai	Nilai Maksimal Karya Ilmiah (Isikan di kolom yang sesuai)		Nilai Akhir Yang Diperoleh
	Internasional <input type="checkbox"/>	Nasional <input type="checkbox"/>	
a. Kelengkapan unsur isi prosiding (10%)	1.5		1.5
b. Ruang lingkup dan kedalaman pembahasan (30%)	4.5		4.5
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	4.5		4
d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	4.5		2.5
Total = (100%)	15		12.5
Nilai Pengusul = (20%)*12.5 = 2.5			

Catatan Penilaian Paper oleh Reviewer :

- Kesesuaian dan kelengkapan unsur isi paper:** kesesuaian dan kelengkapan dipenuhi
- Ruang lingkup dan kedalaman pembahasan:** 1 pustaka yang disitasi dalam pembahasan dari 19 pustaka yang disitasi
- Kecukupan dan kemutakhiran data/informasi dan metodologi:** 19 pustakan dari 19 pustaka yang disitasi terbitan 10 tahun terakhir
- Kelengkapan unsur dan kualitas terbitan:** .23 pustaka terlampir hanya 19 pustaka yang disitasi. Fig 1, 4, 7, 8 tidak disitasi. Terdapat 2 kesalahan penyebutan sitasi gambar. Tabel 5 dan 6 tidak disitasi. Penerbit Ber ISSN, tahun 2019 tidak terindex Scopus.

Semarang,
Reviewer 1

Prof. Dr. Ir. Sri Tudjono, MS
NIP: 195303091981031005
Departemen Teknik Sipil
Fakultas Teknik
Universitas Diponegoro
Kelompok Keahlian: Struktur

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

Judul karya ilmiah (paper) : *Evaluation of The Use of Prefabricated Bridge Elements With Design For Manufacture And Assembly (DFMA) Criteria*

Jumlah Penulis : 3 orang (Yan Purnomo Safaa, Jati Utomo Dwi Hatmoko, **Bambang Purwanggono**)

Status Pengusul : Penulis ke-3

Identitas Makalah : a. Judul Prosiding : The 2nd Conference for Civil Engineering Research Networks (ConCERN-2 2018)

b. eISSN : 2261-236X

c. Tahun Terbit, Tempat Pelaksanaan : 22 Februari 2019, Bandung

d. Penerbit/organiser : MATEC Web of Conferences

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f. Terindeks di (jika ada) : Google Scholar

g. Turnitin Similarity : %

Kategori Publikasi Makalah : \surd Prosiding Forum Ilmiah Internasional
(beri \surd pada kategori yang tepat) Prosiding Forum Ilmiah Nasional

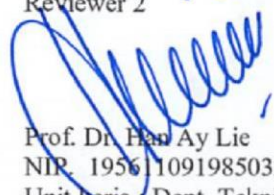
Hasil Penilaian Peer Review :

Komponen Yang Dinilai	Nilai Maksimal Prosiding		Nilai Akhir Yang Diperoleh
	Internasional <input type="text" value="15"/>	Nasional <input type="text"/>	
a. Kelengkapan unsur isi prosiding (10%)	1.5		1.5
b. Ruang lingkup dan kedalaman pembahasan (30%)	4.5		4.2
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	4.5		3.75
d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	4.5		3
Total = (100%)	15		12.45
Nilai Pengusul = (20%)*12.45 = 2.49			

Catatan Penilaian Paper oleh Reviewer :

- Kesesuaian dan kelengkapan unsur isi paper:**
Reviewer mewakili 4 negara, informasi pada web lengkap, daftar isi dan informasi tentang topik conference jelas, scientific committee ada
- Ruang lingkup dan kedalaman pembahasan:**
Paper ini mengevaluasi kondisi eksisting elemen jembatan prefabricated. Data lengkap, dan mencakup tujuh type girder. Data sangat detail, tersaji dengan baik dan runtun. Pengolahan data sesuai kaidah statistik
- Kecukupan dan kemutakhiran data/informasi dan metodologi:**
Kebaruan ada, metodologi riset dan analisa data memadai. Kesimpulan belum bisa menyajikan hasil akhir, dan masih diperlukan studi lebih lanjut untuk mendapatkan kesimpulan yang baku
- Kelengkapan unsur dan kualitas terbitan:**
MATEC tertanggal 1 Januari 2019 tidak terindex Scopus lagi, ini memandakan ada mata rantai dalam proses produksi atau sistematisa evaluasi yang menurun. Pengelola conference dari ITB cukup dikenal reputasinya

Semarang, 4-3-2019
Reviewer 2



Prof. Dr. Has Ay Lie
NIR. 195611091985032002
Unit Kerja : Dept. Teknik Sipil
Fakultas Teknik, Universitas Diponegoro
Kelompok Keahlian: Struktur

**LEMBAR
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f. Terindeks di (jika ada) : SCOPUS

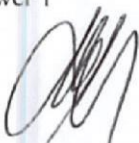
g. Turnitin Similarity :

Kategori Publikasi Makalah (beri pada kategori yang tepat) : *Prosiding Forum Ilmiah Internasional*
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Hasil Penilaian *Peer Review* :

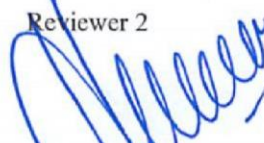
Komponen Yang Dinilai	Nilai Maksimal Jurnal Ilmiah		Nilai Yang Diperoleh
	Reviewer 1	Reviewer 2	
a. Kelengkapan unsur isi prosiding (10%)	1.5	1.5	1.5
b. Ruang lingkup dan kedalaman pembahasan (30%)	4.5	4.2	4.35
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	4	3.75	3.875
d. Kelengkapan unsur dan kualitas penerbit (30%)	2.5	3	2.75
Total = (100%)	12.5	12.45	12.475
Nilai Pengusul = 20%*12.475 = 2.495	2.5	2.49	2.495

Semarang,
Reviewer 1



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Reviewer 2



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Bidang Ilmu: Struktur

SERTIFIKAT



ConCERN-2
The 2nd Conference for Civil Engineering
Research Networks 2018

CERTIFICATE

OF APPRECIATION

THIS CERTIFICATE IS PRESENTED TO

YAN PURNOMO SAFAA

in recognition and appreciation as **Participant** at ConCERN-2:
The 2nd Conference for Civil Engineering Research Networks
from the 27th to 29th of November at Institut Teknologi
Bandung, Indonesia

Ir. Biemo W. Soemardi, M.Sc., Ph.D.
ConCERN-2 Chairman



Prof. Ir. Ade Sjafruddin, M.Sc., Ph.D.
Dean of FCEE ITB



UNIVERSITI
TEKNOLOGI
PETRONAS

COVER DAN DAFTAR ISI

PROCEEDINGS CONCERN-2 2018

THE 2ND CONFERENCE FOR CIVIL ENGINEERING
RESEARCH NETWORKS 2018

Bandung, 27 - 29 November 2018

Editors :

Reini D. Wirahadikusumah

Budi Hasiholan

Patria Kusumaningrum

Institut Teknologi Bandung



The 2nd Conference for Civil Engineering Research Networks 2018

November 27-29, 2018 – Institut Teknologi Bandung, Indonesia

Proceedings

RESEARCHES AND DEVELOPMENTS IN CIVIL ENGINEERING TECHNOLOGIES FOR FUTURE CHALLENGES OF ASIA-PASIFIC INFRASTRUCTURE DEVELOPMENTS

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Sugeng Krisnanto	Institut Teknologi Bandung, Indonesia
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Sony Sulaksono Wibowo

The conference was attended by researchers from 7 countries: Indonesia, Malaysia, Thailand, Australia, Russia, Japan, and Algeria.

There were 8 keynote speakers from various entities, i.e., government agency, local and international academicians, and international Official Development Assistance (ODA) agency, as follows:

1. Herry Vaza, Ph.D - Secretary of Research and Development Agency Ministry of Public Works and Housing, Indonesia
Indonesian Infrastructure Development Challenges and Strategies
2. Mr. Shinichi Yamanaka - Chief Representative, JICA Indonesia Office
JICA's Contribution to Indonesia's Infrastructure Development
3. Mr. Lee Chuan Seng - Former Deputy of Building Construction Authority, Singapore
The Development Journey of Digitization in Singapore's Construction Industry (2011 to Present)
4. Brawijaya, Ph.D - Directorate of Construction Services Development Ministry of Public Works and Housing, Indonesia
Strengthening Construction Safety Management in Indonesia
5. Dr. Bashar Mohammed - Associate Professor Civil & Environmental Engineering Universiti Teknologi Petronas
Rubber Concrete (Rubbercrete) and it's Application
6. Dr. Toong Khuan Chan - Senior Lecturer in Construction Management and Technology, University of Melbourne, Australia
A Rational Economic Approach to Technology Choice and Industry Development
7. Prof. Masyhur Irsyam - Professor of Civil and Environmental Engineering, Institut Teknologi Bandung, Indonesia
Palu Earthquake 2018, a Preliminary Geotechnical Engineering Report

In addition, there was 1 invited speaker from the industry:

1. Mr. Dwi Windarto - Director of Transit Oriented Development (TOD) and Legal of PT Kereta Cepat Indonesia China (High-speed Rail Indonesia-China).
Infrastructure Development of Jakarta-Bandung High-speed Rail

, 00001 (2019) <https://doi.org/10.1051/mateccconf/201927000001>

Preface

The Proceedings of 'The 2nd Conference for Civil Engineering Research Networks (ConCERN-2)' consists of 69 papers. ConCERN-2 was held on November 27-29, 2018 in Bandung, INDONESIA. The conference was hosted by the Faculty of Civil and Environmental Engineering, Institut Teknologi Bandung (ITB).

ConCERN focuses on recent scientific researches in Civil Engineering and aiming at building research networks among institutions. All papers were accepted through a peer-review process by the scientific committee which included international reviewers and edited by ITB editorial team.

On behalf of the organizing committee and the Faculty of Civil and Environmental Engineering of ITB, the editors would like to acknowledge the technical comments from the reviewers. The contribution from the authors from Indonesia and other countries, i.e., Malaysia, Thailand, Australia, Russia, Japan,

and Algeria, is fundamental to the success of the conference. We are also grateful to Novinda Annisa Aulia and Hana Tsurayya for their assistance as the conference secretarial team. Editors

Reini D. Wirahadikusumah

Budi Hasiholan

Patria Kusumaningrum

Institut Teknologi Bandung, INDONESIA

January 31, 2019

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Opening Address

Distinguished guests, ladies and gentlemen,

Assalamu'alaikum, Warahmatullahi Wabarakatuh,

Good Morning.

Welcome to Bandung, welcome to ITB, and welcome to The Second Conference for Civil

Engineering Research Networks (ConCERN-2) 2018.

This conference is organized by Faculty of Civil and Environmental Engineering (FCEE), Institut Teknologi Bandung (ITB) – Indonesia, and co-organized with Universiti Teknologi Petronas (UTP) Malaysia in collaboration with Indonesian Ministry of Public Works and Housing and Indonesian National Construction Services Development Board.

It is our great honor to welcome:

8. Rector of Institut Teknologi Bandung: Prof.Dr.Ir. Kadarsah Suryadi DEA;
9. Mr. Shinichi Yamanaka from JICA Indonesia Office;
10. Dr. Bashar Muhammed from Universiti Teknologi Petronas, Malaysia;
11. Dr. Ir. Syarif Burhanuddin, M.Eng., Director General of Construction Development, Indonesia;
12. Dr. Ir. Danis Hidayat Sumadilaga, M. Eng.Sc, Director General of Human Settlements, Indonesia;
13. Mr. Lee Chuan Seng from Building Construction Authority, Singapore;
14. Dr. Toong-Khuan Chan from University of Melbourne, Australia;
15. Prof. Dr. Ir. Masyhur Irsyam, MSE. from Institut Teknologi Bandung, Indonesia;

To join ConCERN-2 2018.

I would like also to express our highest appreciation to all authors and participants.

Distinguished guests, ladies and gentlemen,

Today we are gathered here believing that this conference will be one of our invaluable contributions to development of research and education in the field of Civil Engineering, and ConCERN-2 2018 will be an effective event to facilitate research collaborations among our colleagues in the region. In this conference we will have a great opportunity to share our knowledge and experiences and discuss '**Researches and Developments in Civil Engineering Technologies for Future Challenges of Asia-Pacific Infrastructure Developments**'.

Moreover, since we are already gathered in this rare occasion, besides discussing issues related to the themes of the conference, I invite all participants to also open a prospect of initiating further collaboration and networking among us, the practitioners and researchers, in addressing infrastructure and built environment issues for our world sustainability.

ConCERN-2 2018 was initiated not only enhance the academic networks among the ASEAN universities, but also to strengthen Civil Engineering networks in the Asia Pacific region.

Faculty of Civil and Environmental Engineering (FCEE) happily supports this event. As an academic entity dealing with infrastructure development, FCEE ITB has put a great emphasis of its academic activities to support sustainable infrastructure development programs. FCEE is one of 12 faculties in ITB. FCEE has now a student body of around 2,600 out of 24,000 of the whole ITB. We have now 150 faculty members consisting of 10 research groups, 120 administrative and technical staffs, and 13 study programs. I believe with its resources, FCEE - and ITB as a whole - can play a significant role to resolve the issues related to the infrastructure development in communities.

We do hope this event will be held again every four years as a part of the FCEE roadmap to encourage collaborative researches and strengthen partnership across centers of excellence in our region.

Distinguished guests, ladies and gentlemen,

We are very grateful for the support from our sponsors:

2. Ministry of Public Works and Housing, Indonesia
3. Civil Engineering Alumni Association of ITB - ALSI ITB
4. Japan International Cooperation Agency - JICA
5. National Construction Services Development Board of Indonesia
6. Tim AKSI ITB
7. PT Wijaya Karya Beton Tbk
8. PT Aditya Engineering Consultant
9. PT Mitra Plan Enviratama
10. PT Marga Graha Penta
11. PT Rayakonsult
12. PT Lapi Ganeshatama
13. PT Marga Sarana Jabar
14. PT Metanna Engineering Consultant
15. PT Intimulya Multikencana
16. PT Multimera Harapan

We would like to thank you all for your active engagement in the conference.

I would specially like to thank all faculty members from FCEE ITB and UTP and all students who have been working very hard to organize this event. The good collaboration among academic program management, faculty members, and students is essential in delivering the success of this conference.

Once again I am very grateful to have you all in this conference. Please enjoy the conference and thank you very much.

Wassalamu'alaikum Warahmatullahi Wabarakatuh.

Prof. Ir. Ade Sjafruddin, M.Sc., Ph.D.

Dean, Faculty of Civil and Environmental Engineering

Institut Teknologi Bandung



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Construction cost optimization of shallow foundation for sand soil in Indonesia 05005

Abdul Azhim and Widjojo A. Prakoso

Published online: 22 February 2019

DOI: <https://doi.org/10.1051/mateconf/201927005005>

PDF (360.4 KB) | [References](#)



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Evaluation of the use of prefabricated bridge elements with Design for Manufacture and Assembly (DfMA) criteria 05006

Yan Purnomo Safaa, Jati Utomo Dwi Hatmoko and Bambang Purwanggono

Published online: 22 February 2019

DOI: <https://doi.org/10.1051/mateconf/201927005006>

PDF (479.5 KB) | [References](#)



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The cost of implementing OHSMS regulation on high-rise building projects 05007

Reini D. Wirahadikusumah and Felix Adhiwira

Published online: 22 February 2019

DOI: <https://doi.org/10.1051/mateconf/201927005007>

PDF (195.4 KB) | [References](#)
