

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

Judul Jurnal Ilmiah (paper) : Developing a Prototype of Early Warning System of Delay Risks for Public Projects (EWaSDRiP)
 Jumlah Penulis : 4 Orang (Jati Utomo D H, Hery Priyono, M Agung Wibowo, Hery Priyono)
 Status Pengusul : ~~penulis pertama~~/ penulis ke 3 / ~~penulis korespondensi~~

Identitas Jurnal Ilmiah : a. Nama Prosiding : "Volume 159, 30 March 2018, 2nd International Joint Conference on Advanced Engineering and Technology, IJCAET 2017 and International Symposium on Advanced Mechanical and Power Engineering, ISAMPE 2017; "
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Kategori Publikasi Jurnal Ilmiah : Prosiding forum ilmiah Internasional
 (beri ✓ pada kategori yang tepat) Prosiding forum ilmiah Nasional

Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Reviewer		Nilai Rata-rata /Nilai Akhir yang diperoleh
	Reviewer I	Reviewer II	
a. Kelengkapan unsur isi prosiding (10%)	0.37	0.37	0.37
b. Ruang lingkup dan kedalaman pembahasan (30%)	1.12	1.12	1.12
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	1.12	1.12	1.12
d. Kelengkapan unsur dan kualitas penerbit (30%)	1.12	1.12	1.12
Total = (100%)	3.73	3.73	3.73

Bandung, 24 Oktober 2018

Reviewer I



Prof. Dr. Ir. Rizal Z Tamin
 NIP. 195508181980031005
 Unit kerja : FTSL. ITB

Reviewer II



Prof. Dr. Ir. Puti Farida Marzuki
 NIP. 195411131980032005
 Unit kerja : FTSL. ITB

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Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Maksimal Prosiding		Nilai Yang Diperoleh
	Internasional	Nasional	
	<input type="text" value="30"/>	<input type="text"/>	
a. Kelengkapan unsur isi prosiding (10%)	0.1 x 28		0.4 x 2.8/3 = 0.37
b. Ruang lingkup dan kedalaman pembahasan (30%)	0.3 x 28		0.4 x 8.4/3 = 1.12
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	0.3 x 28		0.4 x 8.4/3 = 1.12
d. Kelengkapan unsur dan kualitas penerbit (30%)	0.3 x 28		0.4 x 8.4/3 = 1.12
Total = (100%)	28		3.73

Catatan Penilaian paper oleh Reviewer:

Makalah mengkaji *prototype early warning system* untuk mengidentifikasi *delay risk* proyek infrastruktur pada tahap pra-konstruksi. Risiko keterlambatan selalu menghantui proyek infrastruktur sehingga kinerja penyelesaian proyek meleset dari kondisi yang diharapkan. Tujuan penelitian adalah menghasilkan model *prototype early warning system* yang dapat memperkirakan *delay risk* suatu proyek infrastruktur pada tahap pra-konstruksi. Berdasarkan studi literatur terdahulu telah diseleksi 20 indikator *delay risk* dalam 4 kelompok sumber risiko yaitu *owner*, konsultan, karakteristik proyek, dan faktor eksternal. Metoda penelitian adalah pengumpulan data melalui kuesioner dan wawancara yang melibatkan 30 responden yang berasal dari *owner*, kontraktor, dan Konsultan. Responden diminta memberikan penilaian dalam skala likert 1-10 terhadap setiap indikator *delay risk* yang selanjutnya dikalikan dengan nilai *weight* dan *accuracy* untuk mendapatkan nilai *Cumulative Total (CT)* yang bervariasi 1-10. Makalah memberikan kontribusi faktor *delay risk* yang perlu diperhitungkan dan model *prototype* untuk memperkirakan nilai risiko sebagai suatu *system early warning*.

Semarang, 17 Oktober 2018
 Reviewer



Prof. Dr. Ir. Rizal Z Tamin
 NIP. 195508181980031005
 Unit kerja : FTSL. ITB

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Komponen Yang Dinilai	Nilai Maksimal Prosiding		Nilai Yang Diperoleh
	Internasional 30	Nasional <input type="text"/>	
a. Kelengkapan unsur isi prosiding (10%)	0,1 x 28 = 2,8		0,4 x 2,8 / 3 = 0,32
b. Ruang lingkup dan kedalaman pembahasan (30%)	0,3 x 28 = 8,4		0,4 x 8,4 / 3 = 1,12
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	0,3 x 28 = 8,4		0,4 x 8,4 / 3 = 1,12
d. Kelengkapan unsur dan kualitas penerbit (30%)	0,3 x 28 = 8,4		0,4 x 8,4 / 3 = 1,12
Total = (100%)			3,73

Catatan Penilaian paper oleh Reviewer

Paper ini membahas pengembangan suatu sistem peringatan dini terhadap risiko keterlambatan proyek pada tahap pra konstruksi. Dengan teridentifikasinya kemungkinan keterlambatan proyek maka dapat disiapkan tindakan strategis untuk meminimalkannya.

Semarang,
Reviewer



Prof. Dr. Ir. Puti Farida Marzuki
 NIP. 195411131980032005
 Unit kerja : FTSL. ITB

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Volume 159, 30 March 2018, Article number 01015

2nd International Joint Conference on Advanced Engineering and Technology, IJCAET 2017 and International Symposium on Advanced Mechanical and Power Engineering, ISAMPE 2017; Bali; Indonesia; 24 August 2017 through 26 August 2017; Code 135617

Developing a Prototype of Early Warning System of Delay Risks for Public Projects (EWaSDRiP) (Conference Paper)

Utomo Dwi Hatmoko, J. ✉, Priyono, H., Agung Wibowo, M. , Radian Khasani, R. 👤

Civil Engineering Department, Diponegoro University, Semarang, Indonesia

Abstract

Delays may occur during pre-construction or construction phases, or both. The aim of this research is to develop a prototype of an early warning system of delay risks for public projects in pre-construction phase (EWaSDRiP). These delays are attributed to owner, consultant, project characteristics, and external factors. Data was collected through literature review, observations on project reports, interview, and questionnaire surveys with 30 respondents from government client teams, contractors and consultants. The respondents were asked to validate the indicators, and estimate their weight and the degree of accuracy. A 1 to 10 Likert scale reflecting worst to excellent is used to score the state of each of the delay indicators within three zones, i.e. red (scale 1-3), yellow (4-6), green (7-10). The delays in red zone indicates that they pose dangerous threats to the project and must be monitored closely, delays within yellow zone indicate moderate threats to the project, while delays in green zone means that they are unlikely to delay the project. EWaSDRiP gives a visual indication of which zone most delays are distributed. This prototype is potentially beneficial for the owner or government client team to prepare strategic actions for the relevant pre-construction delays accordingly. © The Authors, published by EDP Sciences, 2018.

Indexed keywords

Engineering controlled terms:

Public risks

Engineering uncontrolled terms

Construction phasis

Degree of accuracy

Early Warning System

External factors

Literature reviews

Pre-construction phase

Project characteristics

Questionnaire surveys

Engineering main heading:

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Sponsors:

Publisher: EDP Sciences

👤 Utomo Dwi Hatmoko, J.; Civil Engineering Department, Diponegoro University, Semarang, Indonesia; email:jati.hatmoko@ft.undip.ac.id

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2nd International Joint Conference on Advanced Engineering and Technology
& International Symposium on Advanced Mechanical and Power Engineering



**IJCAET
ISAMPE
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2nd International Joint Conference on Advanced Engineering and Technology
& International Symposium on Advanced Mechanical and Power Engineering



PROGRAM BOOK

Advanced Engineering and
Innovation for Green Technology and
Sustainable Development

SANUR PARADISE PLAZA HOTEL
BALI, INDONESIA
24 - 26 AUGUST, 2017

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Art designed by:

Organized by:
Diponegoro University, Pukyong National University and Udayana University



Supporting Organizations:



Welcome message from General Chair



On behalf of the Organizing Committee, it is our great pleasure to welcome you to the 2nd International Joint Conference on Advanced Engineering and Technology and International Symposium on Advanced Mechanical and Power Engineering (IJCAET & ISAMPE 2017). This year's Conference continues its tradition of being the premier forum for presentation of research results in this field of green technology research, including high-quality papers in all aspects of advanced engineering and innovation.

The call for papers attracted more than 360 paper submissions from Australia, China, India, South Korea, North Korea, Japan Singapore, Malaysia, Thailand, Vietnam, Mauritius, Ethiopia, Nigeria, Srilangka, United Kingdom and Canada. The program committee accepted 333 of those Papers to be presented in this conference. This year's sessions include topics in the field: Aeronautical and Aviation Engineering, Architecture, Automation, Mechatronics and Robotics, Bio-Medical Engineering, Chemical Engineering, Civil Engineering, Computer Science & Engineering, Electrical Engineering, Environmental Engineering, Geodetic and Geology, Image Processing and Recognition, Industrial Engineering, Information Technology, Materials and Metallurgical Engineering, Mechanical Engineering, Nano-Technology, Natural Sciences, Naval Architecture and Marine Systems Engineering, Ocean Engineering, Safety and Reliability in Engineering, Urban Planning and Urban Design.

We extend our gratitude to the Conference International Advisory Board members, Scientific Committee Members, Session Chairs, to all authors for their invaluable contributions, effort, and time. We sincerely express our appreciation to the numerous technical reviewers and the various Review Committees for their thorough work, making the Program Book a high quality and useful document. The efforts, diligence, and thoroughness of the reviewers are gratefully acknowledged.

Special thanks to the Keynote Speakers: Dr. Arcandra Tahar, Prof. Alexander Cuthbert, Prof. Andrew Price and Prof. Tomomi Honda, the Invited Speakers: Prof. Buntara Sthenly Gan, Prof. Tegoeh Tjahjowidodo, Prof. Niro Nagai, Prof. Junghwan Oh and Prof. Prabir Basu. We appreciate the supporting organizations, Ministry of Research, Technology and Higher Education of the Republic of Indonesia, University of Fukui, and University of Shanghai for Science and Technology (USST), the sponsors and of course to our university main partners: Pukyong National University and Udayana University.

We welcome you to Bali, and we very much hope you enjoy the conference.

Jati Utomo Dwi Hatmoko, Ph.D

IJCAET & ISAMPE 2017 General Chair
VICE DEAN for Research and Innovation
Faculty of Engineering, Diponegoro University, Indonesia

Welcome message from Dean of Faculty of Engineering – Diponegoro University



We are delighted to have you here at the 2nd International Joint Conference on Advanced Engineering and Technology and International Symposium on Advanced Mechanical and Power Engineering (IJCAET & ISAMPE 2017) in Bali, Indonesia. The fact that many of you come from various distant places around the world serves to remind us of how important this gathering is. This year's conference is held jointly by Diponegoro University with Pukyong National University and Udayana University.

The conference's theme is "Advanced Engineering and Innovation for Green Technology and Sustainable Development", it will broadly cover various disciplines of from fundamental research to real world applications for society sustainability, highlight global interactions and interdisciplinary collaborations among academics, scientist, practitioners and industry experts.

We are honored to have outstanding speakers from around the world. These remarkable individuals are going to shed light on some selected novel topics drawn from their life-long work and experience involving Green technology and sustainable development through advanced engineering, innovation, management, and technology.

It is such a pride to get to host this conference in Bali, Indonesia, which is also known as the land of paradise. Specially, welcome all of you to the fabulous small town, Sanur, Bali's earliest beach resort, featuring a relaxed coastal ambiance. Among Bali's first hotels and beachfront retreats, together with an eclectic mix of restaurants, shops and bars and an assortment of innovative and modern entertainment venues share the Sanur Beach coastline. Known for its laidback atmosphere, Sanur Beach maintains its wealth in arts and culture, making it an ideal destination to enjoy the best of both eras, classic and contemporary. Hope you will get a chance to experience them all.

I want to say once more on behalf of the Faculty of Engineering, Diponegoro University, "Welcome." Hope this scholarly gathering will keep you intellectually intrigued and inspired. Thank you all for coming.

M. Agung Wibowo, Ph.D

DEAN, Faculty of Engineering, Diponegoro University, Indonesia

Welcome message from Dean of College of Engineering - Pukyong National University



On behalf of College of Engineering - Pukyong National University, I welcome all of participants and distinguished guests of the 2nd International Joint Conference on Advanced Engineering and Technology and International Symposium on Advanced Mechanical and Power Engineering (IJCAET & ISAMPE 2017) in beautiful Bali, Indonesia.

First of all, I would like to special thank Dr. Agung Wibowo, Dean of Faculty of Engineering, Diponegoro University, Prof. Ngakan Putu Gede Suardana, Dean of Faculty of Engineering, Udayana University, and also to appreciate General Co-chairs, Dr. Jati Utomo Dwi Hatmoko, Prof. Ngakan Putu Sueca, Prof. Tae Wan Kim, and the all other committees as well. This year's conference is held jointly with which Diponegoro University, Udayana University and Pukyong National University host on behalf of the consortium Deans.

Especially, this year's conference is also held together with ISAMPE 2017. ISAMPE 2016 was held on 27-30 October 2016 in Fukui, Japan. For the cooperation of ISAMPE 2017, I also would like to thank Prof. Niro Nagai, Fukui University, Japan and Prof. Dai Ren, University of Shanghai for Science and Technology.

It is my great honor to give you a welcome message. This conference would be a wonderful time to share the progress in Advanced Engineering and Technology with each other, and to find a chance to cooperate with others. No one doubt that many valuable research results will be presented at this conference. So, I hope, you have many creative inspirations and discussions from this conference and that would be your great opportunity to find promising future research topics as well. Especially, for your students, I would like to strongly recommend to experience globalized sociality with friends from other countries and to try make many international friendship with them to enhance your global minds.

Once again, our college of engineering, Pukyong National University is very happy to host this International Joint Conference on Advanced Engineering and Technology and International Symposium on Advanced Mechanical and Power Engineering (IJCAET & ISAMPE 2017) with Diponegoro University and Udayana University.

I would like to give sincere thanks to all participants.
Thank you very much.

Prof. Seon Jin Kim

DEAN, College of Engineering, Pukyong National University, South Korea



2nd International Joint Conference on Advanced Engineering and Technology & International Symposium on Advanced Mechanical and Power Engineering

24 - 26 August 2017
Sanur Paradise Plaza Hotel, Bali - Indonesia
Phone. +62 24 7460053, Email:ijcaet@ft.undip.ac.id,
Website: www.ijcaet.undip.ac.id



Welcome message from Dean of Faculty of Engineering – Udayana University



We are delighted to extend a warm welcome to you at the 2nd International Joint Conference on Advanced Engineering and Technology and International Symposium on Advanced Mechanical and Power Engineering (IJCAET & ISAMPE 2017) to be held from 24th to 26th August 2017 in Sanur, Bali, Indonesia.

This year, IJCAET & ISAMPE 2017 is jointly organized by Diponegoro University, Udayana University and Pukyong National University

We are fortunate to have some of the distinguished keynote and invited speakers in the theme areas of the conference. We thank them for their kindness to be with us in this conference.

We would like to thank all authors and participants for their interests and contributions to IJCAET & ISAMPE 2017. We acknowledge the support from the sponsors. We also express our gratitude to all the organizing committee members and the reviewers who gave their valuable time in providing critical reviews. The conference would not have been possible without the help of the organizing committee and the volunteers and we thank them most sincerely.

We hope you have a fruitful conference and a culturally engaging experience in Bali!

Prof. Ngakan Putu Gede Suardana

DEAN, Faculty of Engineering Udayana University, Indonesia

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Dr. Tegoeh Tjahjowidodo – Nanyang Technological University, Singapore
Dr. Turnad Lenggo Ginta – University Technology Petronas, Malaysia
Dr. Wahyu Caesarendra – Nanyang Technological University, Singapore
Dr. Wayan Redana – Udayana University, Indonesia
Dr. WG Ariastina – Udayana University, Indonesia

KEYNOTE SPEAKER



1. Dr. Arcandra Tahar
Vice Minister of Energy and Mineral Resources, the Republic of Indonesia



2. Prof. Alexander Cuthbert
Emeritus Professor of Planning and Urban Development, The University of New South Wales, Sydney, Australia

"Robots, Wind farms, and the internet : The ethics of technology in a changing world"



3. Prof. Andrew Price
Loughborough University, UK
Civil and Building Engineering Department

"Improving critical infrastructure performance through advanced engineering and innovation"



4. Assoc. Prof. Tomomi Honda
University of Fukui, Japan
Department of Mechanical Engineering, Faculty of Engineering
Graduate School of Engineering

"New diagnosis methods of the lubrication oils for the proactive maintenance"

Dr. Tuned Lango Gias – University Technology

Dr. Wahyu Caesarendra – Nanyang Technological University, Singapore

Dr. Wayan Redana – Udayana University, Indonesia

Dr. W.G. Ariawansa – Udayana University, Indonesia

INVITED SPEAKER



Prof. Buntara Sthenly Gan

Architecture Department Nihon University, Koriyama Japan

"Isogeometric Analysis for Beam Element"



Assoc. Prof. Tegoeh Tjahjowidodo

School of Mechanical and Aerospace Engineering, Nanyang Technological University (NTU), Singapore

"An Integrated-Intelligent Re-manufacturing Process"



Prof. Niro Nagai

Mechanical Engineering Department, University of Fukui, Japan

"Boiling research in Japan, cooling technology of high-temperature material"



Assoc. Prof. Rosdiazli Ibrahim

Electrical and Electronics Engineering Department, Universiti Teknologi Petronas (UTP), Malaysia

Dean of Centre for Graduate Studies (UTP)

"The journey towards industrial monitoring and control application of wirelessHART technology"



Prof. Junghwan Oh

Biomedical Engineering Department, Pukyong National University (PKNU), Korea



Prof. Prabir Basu

Mechanical Engineering Department, Dalhousie University, Nova Scotia, Canada

"Torrefaction – an easier, simpler, inexpensive immediately implementable option of reduction in greenhouse gas emission"

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