

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

Judul karya ilmiah (paper) : Comfortable Pedestrian Ways With a Climate Sensitive Urban Design Approach in The Old City Semarang.

Jumlah Penulis : 5 orang

Status Pengusul : Penulis Utama\* (Rina Kurniati \*; Wakhidah Kurniawati; **Diah Intan Kusumo Dewi** ; Annisa Sarasadi; Endah Kartika Syahri)

Identitas prosiding : a. Judul Prosiding : The 5th International Conference on Energy, Environmental and Information System (ICENIS 2020)

b. ISBN/ISSN : -

c. Tahun Terbit/tempat pelaksanaan : 2020

d. Penerbit/organiser : EDP Sciences

e. DOI artikel : <https://doi.org/10.1051/e3sconf/202020206041>

f. Alamat repository PT/web : <https://www.e3s-conferences.org/>

g. Terindeks di : SCOPUS

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


Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Maksimal <i>Prosiding</i>		Nilai Akhir Yang Diperoleh
	Internasional Terindeks Scopus <input type="text" value="30"/>	Nasional <input type="text"/>	
a. Kelengkapan unsur isi paper (10%)	3		2,5
b. Ruang lingkup dan kedalaman pembahasan (30%)	9		7,0
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9		6,5
d. Kelengkapan unsur dan kualitas terbitan/prosiding (30%)	9		7,0
<b>Total = (100%)</b>	<b>30</b>		<b>23,0</b>
<b>Nilai Pengusul : (40% x 23) = 9,2/4 = 2,3</b>			

Catatan Penilaian paper oleh Reviewer:

- Kelengkapan unsur artikel cukup.
- Kelengkapan artikel terkait Climate Sensitive Urban Design pembahasannya cukup komperhensif.
- Sitasi yang digunakan ada 19 referensi, 57% terbitan ≤ 10 tahun terakhir. Turnitin Similarity Index 2%.
- Prosiding terbitan EDP Science. Terindeks Scopus SJR 0,21.

Semarang, 24 Agustus 2022  
 Reviewer 1,

  
 Prof. Dr. Ir. Nany Yuliasuti, MSP.  
 NIP. 195407171982032001  
 Departemen PWK, FT. UNDIP

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

Judul karya ilmiah (paper) : Comfortable Pedestrian Ways With a Climate Sensitive Urban Design Approach in The Old City Semarang.

Jumlah Penulis : 5 orang

Status Pengusul : Penulis Utama\* ( Rina Kurniati\*; Wakidah Kurniawati; **Diah Intan Kusumo Dewi** ; Annisa Sarasadi; Endah Kartika Syahri)

Identitas prosiding : a. Judul Prosiding : The 5th International Conference on Energy, Environmental and Information System (ICENIS 2020)

b. ISBN/ISSN : -

c. Tahun Terbit/tempat pelaksanaan : 2020

d. Penerbit/organiser : EDP Sciences

e. DOI artikel : <https://doi.org/10.1051/e3sconf/202020206041>

f. Alamat repository PT/web : <https://www.e3s-conferences.org/>

g. Terindeks di : SCOPUS

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

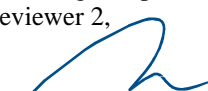
Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Maksimal <i>Prosiding</i>		Nilai Akhir Yang Diperoleh
	Internasional Terindeks Scopus 30	Nasional <input type="checkbox"/>	
a. Kelengkapan unsur isi paper (10%)	3		2
b. Ruang lingkup dan kedalaman pembahasan (30%)	9		4
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9		5
d. Kelengkapan unsur dan kualitas terbitan/prosiding (30%)	9		4
<b>Total = (100%)</b>	30		15
<b>Nilai Pengusul : <math>40\% \times 15 = 6 / 4 = 1,5</math></b>			

Catatan Penilaian paper oleh Reviewer :

- Unsur artikel cukup. Sumber pendanaan dari Penelitian Dasar UNDIP.
- Pembahasan didukung 19 pustaka tetapi hanya 4 yang pustaka primer, itu pun terlalu lokal (jurnal berbahasa Indonesia). Tidak menunjukkan konteks keilmuan secara global. Diskusi kurang tajam untuk menunjukkan hubungan antara temuan penelitian dengan konsepsi teori yang dibahas.
- Metode cukup aktual menggunakan analisis spasial berbasis GIS. Data diperoleh dari data primer.
- Artikel diterbitkan oleh EDP series. Meskipun sebagian besar penulis dari Indonesia, tetapi ada beberapa dari LN sehingga syarat diversity author terpenuhi. Source Figure 6 tidak lazim dan tidak konsisten dengan teknik penulisan sitasi. Tidak terindeks SCOPUS sehingga tidak masuk kategori prosiding terindeks

Semarang, 3 April 2023  
Reviewer 2,

  
Prof. Dr. rer. nat. Imam Buchori, ST  
NIP. 197011231995121001  
Departemen PWK, FT. UNDIP

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

Judul karya ilmiah (paper) : Comfortable Pedestrian Ways With a Climate Sensitive Urban Design Approach in The Old City Semarang.

Jumlah Penulis : 5 orang

Status Pengusul : Penulis Utama\* (Rina Kurniati \*; Wakidah Kurniawati; **Diah Intan Kusumo Dewi** ; Annisa Sarasadi; Endah Kartika Syahri)

Identitas prosiding : a. Judul Prosiding : The 5th International Conference on Energy, Environmental and Information System (ICENIS 2020)

b. ISBN/ISSN : -

c. Tahun Terbit/tempat pelaksanaan : 2020

d. Penerbit/organiser : EDP Sciences

e. DOI artikel : <https://doi.org/10.1051/e3sconf/202020206041>

f. Alamat repository PT/web : <https://www.e3s-conferences.org/>

g. Terindeks di : SCOPUS

Kategori Publikasi Makalah :  *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
	Reviewer I	Reviewer II	
a. Kelengkapan unsur isi paper (10%)	2,5	2	2,25
b. Ruang lingkup dan kedalaman pembahasan (30%)	7,0	4	5,5
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	6,5	5	5,75
d. Kelengkapan unsur dan kualitas terbitan/prosiding (30%)	7,0	4	5,5
<b>Total = (100%)</b>	23,0	15	19,0
<b>Nilai Pengusul</b>	13,8	9,0	<b>11,4</b>

Semarang, 3 April 2023

Reviewer 1,



Prof. Dr. Ir. Nany Yuliaswati, MSP.  
NIP. 195407171982032001  
Departemen PWK, FT. UNDIP FT.

Reviewer 2,



Prof. Dr. rer. nat. Imam Buchori, ST  
NIP. 197011231995121001  
Departemen PWK, FT. UNDIP

## Preface

The 5<sup>th</sup> International Conference on Energy, Environment, Epidemiology and Information System 2020 (5<sup>th</sup> ICEN IS 2020) has been organized by the School of Postgraduate Studies, Universitas Diponegoro, Indonesia with the support by World Class University (WCU) Program. The conference was held on August 12<sup>th</sup>-13<sup>th</sup> 2020 in Semarang, Indonesia by using Online Conference System. The aim of the conference was to distribute research outcomes on multidisciplinary research area on energy, environment, health and epidemiology and information system.

The 5<sup>th</sup> ICENIS 2020 have presented 10(ten) international honorable keynote speakers from representative institutions and continents: i) Prof. Elco van Burg, Vrij University Amsterdam, The Netherlands; ii) Prof Peter Gell, Federation University, Australia., iii) Prof. Jerry Miller, Western Caroline University, USA; iv) Prof. Shabbir Gheewalla, Joint Graduate School of Energy and Environment (JGSEE), Kingmookut University, Thailand; v) Assoc. Prof. Zainul Zakaria, Chemical Engineering Department, UTM Malaysia; (vi) Dr Yurdi Yasmi; Regional representative of IRRI for Southeast Asia, Cambodia; (vii) Dr Nuki Agya Utama, Executive Director of Asean Energy research; (viii) Patrick van Schijndel, TU Delft, The Netherlands, (ix) Barokah Sri Utami, Former President Director of PT Phapros, Indonesia, and (x) Dr Liew Kian heng from Strategics Singapore. Pursuing the international network of researchers and industrial applications, this event also has been attended by overseas colleagues to share their best research works as well as local academia and practitioners. Over 320 representatives from various institutions participated in this event, involving more than 340 abstracts submitted. After a rigorous selection process, the Scientific & Editorial Board of 5<sup>th</sup> ICENIS 2020 made selection of 300 articles to be published in E3S Web of Conferences, an open-access proceedings in environment, energy and earth sciences, managed by EDP Sciences, and indexed on Scopus, Scimago, Conference Proceedings Citation Index-Science (CPCI-S) of Clarivate Analytics's Web of Science, DOAJ (Directory of Open Access Journals). The Proceedings of 5<sup>th</sup> ICENIS 2020 consists of selected articles from Kazakhstan, Libya, Netherlands, Thailand, Malaysia. The published papers have passed all necessary improvement requirements in accordance to the Web of Conferences standard, reviewer's comments, SI, similarity tests by Turnitin program.

We would like to express our gratitude to the official committee, scientific & editorial boards, organizing partners. A very special thanks to Universitas Diponegoro for financially supporting this conference especially for financing indexing of proceeding in E3S. Finally, we would like to briefly acknowledge all presenters and attendees for their efforts sharing the beautiful ideas and useful research outcomes to inspire further research and collaborations. Although, this time the conference has been successfully conducted via webinar, but the number of participants showed a great increases and we do hope that this also will be the same for the coming 6<sup>th</sup> ICENIS 2021.

See you again in the next year conference 5<sup>th</sup> ICENIS 2021

The chairman

Prof. Hadiyanto

## SCIENTIFIC and EDITORIAL BOARD

1. Prof. Tri Retnaningsih Soeprbowati (Graduate Program of Environmental Sciences, Universitas Diponegoro, Indonesia)
2. Prof. Sudahrto P Hadi ( Graduate Program of Environmental Sciences, Universitas Diponegoro, Indonesia)
3. Prof Purwanto (Chemical Engineering Department , Universitas Diponegoro, Indonesia)
4. Prof. Henk Heijnis, (ANSTO Australia)
5. Dr Zainul Zakaria (UTM Malaysia)
6. Prof. Shabbir Gheewala (JGSEE, Thailand)
7. Prof. Hadiyanto (School of Postgraduate Studies, Universitas Diponegoro, Indonesia)
8. Prof. Peter Gell (Federation University, Australia)
9. Prof. Elco van Burg (Vrij University, The Netherlands)
10. Dr Thomas Putranto Triadi (Faculty of Engineering, Universitas Diponegoro, Indonesia)
11. Dr Hartuti Purnaweni (Graduate Program of Environmental Sciences, Universitas Diponegoro, Indonesia)
12. Dr Sudarno (Graduate Program of Environmental Sciences, Universitas Diponegoro, Indonesia)
13. Dr Budi Warsito (Graduate Program of Information System, Universitas Diponegoro, Indonesia)
14. Dr Suryono (Graduate Program of Information System, Universitas Diponegoro, Indonesia)
15. Dr Maryono (Graduate Program of Environmental Science, Universitas Diponegoro, Indonesia)

Open Access

Water quality assessment and control efforts use the pollution index method in the Sikendil river 06039

Ade Lenty Hoya, Yuliasuti Nany, Sudarno Utomo and Andrea Ramadhani Maharlika

Published online: 10 November 2020

DOI: <https://doi.org/10.1051/e3sconf/202020206039>

PDF (932.3 KB) | [References](#) | [NASA ADS Abstract Service](#)

---

 Open Access

Water quality condition of Sani river as source of drinking water of PDAM Tirta Bening in Pati Regency 06040

Evta Rina Mailisa, Bambang Yulianto and Budi Warsito

Published online: 10 November 2020

DOI: <https://doi.org/10.1051/e3sconf/202020206040>

PDF (381.0 KB) | [References](#) | [NASA ADS Abstract Service](#)

---

 Open Access

Comfortable Pedestrian Ways With a Climate Sensitive Urban Design Approach in The Old City Semarang 06041

Rina Kurniati, Wakhidah Kurniawati, Diah Intan Kusumo Dewi, Annisa Sarasadi and Endah Kartika Syahri

Published online: 01 December 2020

DOI: <https://doi.org/10.1051/e3sconf/202020206041>

PDF (633.8 KB) | [References](#) | [NASA ADS Abstract Service](#)

---

 Open Access

Excellent Commodity of Capture Fisheries and Preservation of Fish Resources in Pekalongan City 06042

Azis Nur Bambang, Imam Triarso and Abdul Kohar Muzakir

Published online: 01 December 2020

DOI: <https://doi.org/10.1051/e3sconf/202020206042>

PDF (301.1 KB) | [References](#) | [NASA ADS Abstract Service](#)

---

 Open Access

Silvofishery as an alternative system of sustainable aquaculture in mororejo village, kendal regency 06043

Woro Kusumaningtyas Perwitasari, Fuad Muhammad and Jaffran Wasiq Hidayat

Published online: 01 December 2020

DOI: <https://doi.org/10.1051/e3sconf/202020206043>

[All issues](#) ▶ [Volume 202 \(2020\)](#) ▶ [E3S Web Conf., 202 \(2020\) 06041](#) ▶ [Abstract](#)

## Open Access

Issue	E3S Web Conf. Volume 202, 2020 The 5 <sup>th</sup> International Conference on Energy, Environmental and Information System (ICENIS 2020)
Article Number	06041
Number of page(s)	10
Section	Green Infrastructure and Resilience
DOI	<a href="https://doi.org/10.1051/e3sconf/202020206041">https://doi.org/10.1051/e3sconf/202020206041</a>
Published online	01 December 2020

E3S Web of Conferences 202, 06041 (2020)

## Comfortable Pedestrian Ways With a Climate Sensitive Urban Design Approach in The Old City Semarang

Rina Kurniati\*, Wakhidah Kurniawati, Diah Intan  
Kusumo Dewi, Annisa Sarasadi and Endah Kartika  
Syahri

Department of Urban and Regional Planning, Faculty  
of Engineering, Diponegoro University

## Table of Contents

## Article

[Abstract](#) [PDF \(633.8 KB\)](#) [References](#)  
[NASA ADS Abstract Service](#)

## Metrics

[Show article metrics](#)

## Services

## Same authors

- [Google Scholar](#)
- [EDP Sciences database](#)

[Recommend this article](#)

[Download citation](#)

[Alert me if this article is corrected](#)

[Alert me if this article is cited](#)

## Related Articles

[Pedestrian Perception about Facility of Pedestrian  
Crossings](#)

MATEC Web of Conferences 147, 02009 (2018)

\*

Corresponding  
rina.kurniati@pwk.undip.ac.id

author:

[COVID-19: The Questions Ahead for Future  
Pedestrian Ways in Transit Area](#)  
E3S Web of Conferences 202, 03021 (2020)

[Pedestrian crossing model in urban street \(Case  
study on commercial area in Bandung\)](#)  
MATEC Web of Conferences 181, 02004 (2018)


[More](#)

### Abstract

The city of Semarang is one of the cities in Indonesia that experiences the phenomenon of heat stroke due to climate change. These conditions cause an increase in the average surface temperature of the city to 22-40 ° C which is included in the category of discomfort for outdoor activities. This is certainly very disturbing for various forms of outdoor activities, such as pedestrian activity. The Old City of Semarang is included in the public area which in the last 5 years seeks to improve the arrangement of the area through the development of pedestrian ways. However, the development that has been carried out is considered not able to create a comfortable climate for pedestrians due to high regional temperatures, especially during the day. For this reason, this study aims to examine how to create a comfortable pedestrian ways to climate change, especially in the Old City Region of Semarang. The method used in the form of analysis of the level of thermal comfort using the ArcGIS application and pedestrian ways analysis using vegetation distribution and building shadow analysis. The result will be found elements of city design that can create pedestrian comfort in the Old City Region of Semarang.

**Key words:** Pedestrian Ways / Old Town / Climate / City Design / Comfort

© The Authors, published by EDP Sciences, 2020

 This is an Open Access article distributed under the terms of the [Creative Commons Attribution License 4.0](#), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

### Bookmarking



-  [Reader's services](#)
-  [Email-alert](#)