

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

Judul karya ilmiah (paper)	: The Impact of Urbanization to Forest Degradation in Metropolitan Semarang: A Preliminary Study		
Jumlah Penulis	: 3 orang		
Status Pengusul	: Sejati, A.W., Buchori, I., I Rudiarto		
Identitas prosiding	a. Judul Prosiding	: IOP Conference Series:Earth and Environmental Science	
	b. ISBN/ISSN	: 1755-1315	
	c. Tahun Terbit/tempat pelaksanaan	: 2018	
	d. Penerbit/organiser	: IOP Publishing	
	e. Alamat repository PT/web	http://iopscience.iop.org/article/10.1088/1755-1315/123/1/012011	
	f. Terindeks di (jika ada)	: SJR 0,175 (2019) dan SNIP 0,514 (2019)	
Kategori Publikasi Makalah (beri ✓ pada kategori yang tepat)	<input checked="" type="checkbox"/> <i>Prosiding Forum Ilmiah Internasional</i> <input type="checkbox"/> <i>Prosiding Forum Ilmiah Nasional</i>		

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Total = (100%)	30		28,0
Nilai Pengusul :			

Catatan Penilaian paper oleh Reviewer :

- a. Kelengkapan artikel lengkap. Substansi sesuai bidang ilmu penulis
- b. Pembahasan cukup mendalam. Analisis cukup. Secara umum hasilnya dapat lebih di explore terkait forest degradation di Semarang
- c. Data cukup lengkap. Ada 47 daftar pustaka, 85% terbitan \leq 10 tahun terakhir
- d. Prosiding diterbitkan oleh IOP Conference Series, terindeks pada Scopus SJR = 0,17 (2018)

Semarang, 09-03-2020

Reviewer 1,

Prof. Dr. Ir. Nany Yuliastuti, MSP
NIP. 195407171982032001
Departemen PWK, FT. Undip

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b. Ruang lingkup dan kedalaman pembahasan (30%)	9		8,0
c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	9		8,0
d. Kelengkapan unsur dan kualitas terbitan/prosiding (30%)	9		8,0
Total = (100%)	30		27,0
Nilai Pengusul :			

Catatan Penilaian paper oleh Reviewer :

- a. Penulisan sesuai dengan Author Guidelines; Judul sesuai dengan isi tulisan
- b. Artikel sesuai bidang ilmu penulis; referensi total 47 (85% di bawah 10 tahun)
- c. Terdapat sekitar 40 rujukan < 10 tahun terakhir; unsur inovasi cukup
- d. Prosiding terindeks Scopus (IOP Conference Series)

Semarang, 11-02-2020

Reviewer 2,



Prof. Ir. Bakti Setiawan, M.A., Ph.D

NIP. 195906281985031006

Departemen Arsitektur & Perencanaan, FT. UGM

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a.Kelengkapan unsur isi paper (10%)	3,0	3,0	3,0
b.Ruang lingkup dan kedalaman pembahasan (30%)	7,0	8,0	7,5
c.Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	9,0	8,0	8,5
d.Kelengkapan unsur dan kualitas terbitan/prosiding (30%)	9,0	8,0	8,5
Total = (100%)	28,0	27,0	27,5

Semarang, 13-03-2020

Reviewer 1,

Prof. Dr. Ir. Nany Yuliastuti, MSP
NIP. 195407171982032001
Departemen PWK FT.Undip

Reviewer 2,

Prof. Ir. Bakti Setiawan, M.A., Ph.D
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d. Kelengkapan unsur dan kualitas terbitan/prosiding (30%)	9		8,5
Total = (100%)	30		27,5
Nilai Pengusul :			

Semarang, 13-03-2020

Reviewer 1,

Prof. Dr. Ir. Nany Yuliastuti, MSP
NIP. 195407171982032001
Departemen PWK FT.Undip

Reviewer 2,

Prof. Ir. Bakti Setiawan, M.A., Ph.D
NIP. 195906281985031006
Departemen Arsitektur & Perencanaan, FT. UGM

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Volume 123, Issue 1, 22 February 2018, Article number 012011
2nd Geoplanning - International Conference on Geomatics and Planning; Surakarta - Central Java; Indonesia; 9 August 2017 through 10 August 2017; Code 134955

The Impact of Urbanization to Forest Degradation in Metropolitan Semarang: A Preliminary Study (Conference Paper) (Open Access)

Sejati, A.W.^{a,b,c}, Buchori, I.^{a,b}, Rudiarto, I.^{a,b}

^aDepartment of Urban and Regional Planning, Universitas Diponegoro, Indonesia
^bCenter of Geomatic's Application for Sustainable Development, Universitas Diponegoro, Indonesia
^cDoctoral Program in Architecture and Urbanism, Universitas Diponegoro, Indonesia

Abstract

This paper aims to examine the relationship of urbanization and the consequences of environmental impacts, especially the availability of forests. The analysis used remote sensing data ie Landsat 7 ETM (1990), Landsat 7 ETM (2000), and Landsat 8 OLI (2015). Analysis of forest availability used green vegetation cover parameters with NDVI techniques, while urbanization was measured by looking at the built-up area growth with NDBI techniques. The detection result in 1990 area of urban area was 74.85 km², in 2000 was 130.83 km², and in 2015 was 292.74 km². Given the overall size of the metropolitan area of Semarang (932.14 km²), the proportion of the built up area in 2015 was 31% with an average of 6% per year change in 1990-2000 and 8.2% per year in 2000-2015. Urbanization in this region is characterized by forest conversion into residential and industrial buildings. With increasing area and built-up density, NDBI is found to be proportionately increasing, while NDVI decrease is significant. The results show that NDBI-NDVI correlation is negative (-0.99). It is very important for policy makers to formulate land use control policies in Metropolitan Semarang particularly in responding to the issue of forest conversion. © Published under licence by IOP Publishing Ltd.

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SciVal Topic Prominence ⓘ

Topic: Regency | Open Space | Spatial Planning

Prominence percentile: 81.379 ⓘ

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8.90 Field-Weighted Citation Impact

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Cited by 7 documents

Effect of Urban Expansion Intensity on Urban Ecological Status Utilizing Remote Sensing and GIS: A Study of Semarang-Indonesia
Indrawati, L., Sigit Heru Murti, B.S., Rachmawati, R. (2020) IOP Conference Series: Earth and Environmental Science

Open-source web GIS framework in monitoring urban land use planning: Participatory solutions for developing countries
Sejati, A.W., Buchori, I., Rudiarto, I. (2020) Journal of Urban and Regional Analysis

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Ana Virtudes and Victor Cavaleiro

PREFACE

The 2nd Geoplanning - International Conference was held on 9-10th September, 2017 in Solo, Central Java, Indonesia. Geoplanning is an international conference covering research and development in the field of applied geomatic's technologies for spatial planning, including GIS, Remote Sensing, and Satellite Image Processing. More than 132 abstract were submitted and after an initial review 80 papers were presented. Through peer review process, 50 papers were accepted for publication in the Geoplanning Conference Proceeding.

The present volume is highlighting major issue of Sustainable Development with focusing topic on “Geomatic's Application for Disaster Management and Spatial Planning.” Furthermore, the topic was divided into four themes;

Theme 1: Disaster Modelling & Management

Theme 2: Infrastructure and Settlement

Theme 3: RS-GIS for Spatial Modelling

Theme 4: Urban and Regional Planning

We would like to thank all the reviewers for their time and effort in reviewing the documents. The published papers have passed the process of improvement accommodating the discussion during the conference as well as the reviewers' comments who have guided any necessary improvement. Finally, we would like to thanks to all of the proceeding team who have dedicated their constant support and countless time to bring these scratches into a book.

Chair Committee of Geoplanning



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2018

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Surakarta - Central Java, Indonesia**

Accepted papers received: 07 February 2018

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