

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

Judul karya ilmiah : Establishing Grounds for Building Orientation Mapping and Validation of Noise Level Correlation Modeling on Aircraft Take-off and Landing (artikel)
 Jumlah Penulis : 3 penulis
 Status Pengusul : Erni Setyowati, Moch. Arief Budiharjo, Agitta Raras Putri
 Identitas Jurnal Ilmiah :
 a. Judul Jurnal : Buildings
 b. Nomor ISSN : 2075-5309
 c. Vol.,no.,bulan,tahun : Volume 9, Issue 1, artikel no: 27
 d. Penerbit : MDPI AG, Basel, Switzerland
 e. DOI Artikel : <https://doi.org/10.3390/buildings>
 f. Alamat web jurnal : <https://www.mdpi.com/2075-5309/9/1/27>
 g. Terindeks di : the Emerging Sources Citation Index (ESCI - Web of Science), Scopus

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c. Kecukupan/kemutakhiran data dan metodologi :

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e. Indikasi plagiasi :

f. Kesesuaian bidang ilmu :

Semarang, 9 Februari 2019
 Reviewer 1,



Prof. Dr.-Ing. Gagoek Hardiman
 NIP. 195308191983031001
 Departemen Arsitektur, FT. Undip

LAMPIRAN
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : JURNAL ILMIAH

a. KELENGKAPAN UNSUR ARTIKEL

Artikel yang dinilai memiliki kelengkapan yang dipersyaratkan di dalam Pedoman Operasional PAK seperti: Profil Jurnal, Editorial Board, Penerbit, Jurnal Address, Borang penilaian dan Turnitin (Similarities) serta link journal. Secara substansi artikel sudah memenuhi susunan yang dipersyaratkan dalam “*Guide for Authors*” yang terdiri dari: Abstrak, Introduction, Materials and Methods, Results, Discussion (secara terpisah), Conclusion, Acknowledgment, Author contribution and support, serta funding. Manajemen jurnal sangat baik, terbukti volume per tahun dan issue per bulan lengkap serta merupakan jurnal Q1, dengan H index : 9. Link artikel : <https://www.mdpi.com/2075-5309/9/1/27>

b. RUANG LINGKUP DAN KEDALAMAN BAHASAN

Artikel terpublikasi di jurnal internasional: Buildings Vol. 9 no 1 artikel nomor 27, ISSN: 2075-5309, penerbit: MDPI AG, Basel, Switzerland, dengan nilai SJR: 0.48 (Q1), judul artikel: **Establishing Grounds for Building Orientation Mapping and Validation of Noise Level Correlation Modeling on Aircraft Take-off and Landing**. Pengusul sebagai first- author.

Artikel ini berisi tentang validasi correlation modelling antara sudut orientasi dan tingkat bunyi yang dihasilkan serta ranking efektifitas orientasi bangunan dalam hal tingkat bunyi yang belum pernah dipublikasikan (similarity 6%). Jenis tulisan adalah pengembangan dari disertasi yang bersangkutan dalam hal: Teoretical reviews, methods dikaitkan dengan ISO 1996-1: 2016: Acoustics—Description, Measurement and Assessment of Environmental Noise—Part 1: Basic Quantities and Assessment Procedures, vol. 2016; International Organization for Standardization: Geneva, Switzerland, 2016 untuk ‘outdoor noise measurement’, keterkaitan dengan climate beserta modellingnya, serta validasi teoritis dan mapping efektifitas orientasi (dimana dalam naskah disertasi tidak disebutkan secara terperinci). Similaritis yang diuji dengan online Turnitin membuktikan bahwa artikel ini tidak plagirism dengan nilai similarity 6%. Cek proses review di web journal membuktikan bahwa telah dilakukan proses revisi 2 putaran oleh blind reviewers. Bukti komentar para refiewer dilampirkan.

c. KECUKUPAN/KEMUTAKHIRAN DATA DAN METODOLOGI

Artikel ini memiliki kemutakhiran data yang baik, sebagai contoh 32 referensi dari 37 referensi (86,4%) yang dirujuk menggunakan jurnal terbitan 10 tahun terakhir. Metode yang digunakan untuk pengukuran outdoor noise merujuk pada ISO 1996-1: 2016: Acoustics—Description, Measurement and Assessment of Environmental Noise—Part 1: Basic Quantities and Assessment Procedures, vol. 2016; International Organization for Standardization: Geneva, Switzerland, 2016. Pembahasan dan Analisis dalam sesi Discussion menggunakan 11 referensi jurnal. Pembahasan tentang validasi teoritis dan empiris dijabarkan secara detil dalam analisis.

d. KELENGKAPAN UNSUR DAN KUALITAS TERBITAN/JURNAL

Penyusunan artikel sudah memenuhi panduan yang dijabarkan dalam “*Guide for Author*” Buildings (<https://www.mdpi.com/journal/buildings>) terindeks oleh the Emerging Sources Citation Index (ESCI - Web of Science), Scopus and Inspec (IET). Jurnal terbit setiap bulan (12 issue per tahun), manajemen jurnal sangat baik dibuktikan dengan Editorial Board yang berasal dari 16 negara (lihat lampiran Editorial Board).

Penanganan peer review dilakukan secara sistematis dengan blind reviewer (lihat lampiran komentar blind reviewer dan revisi paper dengan highlight yang direvisi).

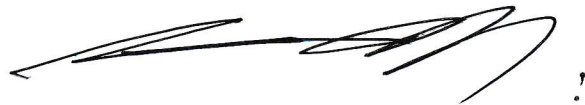
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Penulisan artikel dan topiknya sudah sesuai dengan bidang yang bersangkutan, yaitu: Sistem dan teknologi bangunan (SK 213/D2.1/KP/PAL-LK/2017 dan SK terakhir nomor:73705/A2.3/KP/2017 tentang SK Lektor kepala dalam MK Sistem dan Teknologi Bangunan).

Semarang, 9 February 2019
Reviewer I



Prof. Dr.-Ing. Gagoek Hardiman
NIP. 195308191983031001
Departemen Arsitektur, FT. Undip

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Total = (100%)	40					38.0
Kontribusi Pengusul (Penulis Pertama)	24 (60%)					22.8

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- d. Kelengkapan unsur dan kualitas terbitan/jurnal :
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- e. Indikasi plagiasi :
Secara umum tidak terdapat unsur plagiasi.
- f. Kesesuaian bidang ilmu :
Sesuai bidang ybs. dalam MK Sistem dan Teknologi Bangunan.

Makassar, 28 Februari 2019
 Reviewer 2,


 Prof. Dr. Ir. Muhammad Ramli Rahim, M.Eng
 NIP. 195311111980031009
 Guru Besar Prodi Arsitektur, FT.
 Universitas Hasanuddin

**LEMBAR
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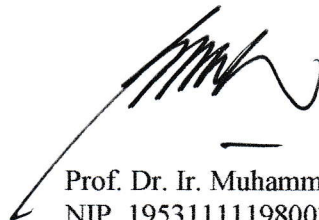
Komponen Yang Dinilai	Nilai Reviewer		
	Reviewer I	Reviewer II	Nilai Rata-rata
a. Kelengkapan unsur isi artikel (10%)	4	3.5	3,75
b. Ruang lingkup dan kedalaman pembahasan (30%)	10	11.5	10,75
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	10	11.5	10,75
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	12	11.5	11,75
Total = (100%)	36	38.0	37
Nilai Pengusul	21,6	22,8	22,2

Reviewer I

Semarang, 28 February 2019
 Reviewer 2



Prof. Dr.-Ing. Gagoek Hardiman
 NIP. 195308191983031001
 Departemen Arsitektur, FT. Undip



Prof. Dr. Ir. Muhammad Ramli Rahim, M.Eng
 NIP. 195311111980031009
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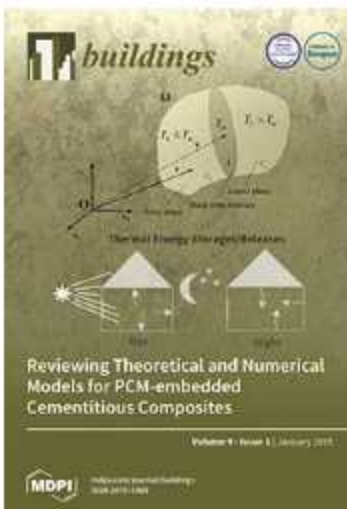
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Volume 9, Issue 1



Buildings 2019, 9(1), 27; https://doi.org/10.3390/buildings9010027

Open Access Article

Establishing Grounds for Building Orientation Mapping and Validation of Noise Level Correlation Modeling on Aircraft Take-off and Landing

Erni Setyowati ^{1,*}, Mochamad Arief Budihardjo ² and Agitta Raras Putri ³

¹ Architecture Department, Faculty of Engineering, Universitas Diponegoro, Semarang 50275, Indonesia

² Environmental Engineering, Faculty of Engineering, Universitas Diponegoro, Semarang 50275, Indonesia

³ Urban and Regional Planning Department, Sultan Agung University, Semarang 50112, Indonesia

* Author to whom correspondence should be addressed.

Received: 13 December 2018 / Revised: 14 January 2019 / Accepted: 16 January 2019 / Published: 21 January 2019

Full-Text | PDF [8524 KB, uploaded 22 January 2019] | Figures

Abstract

This research highlights correlation modeling between residential buildings orientation toward the runway as noise source and noise level. Many studies used noise mapping to identify noise performance in cities, but none of them discussed building orientation as an effort to reduce noise. This research aims to resolve the noise exceeding threshold of 55 dB for landed residential area. The method used was empirical experiments based on ISO 1996-1 using a 1:1-scaled building block model that was rotatable on its axis on various orientation angles. To examine the difference in sound reduction patterns, measurements were carried out during aircraft take-off and landing in three measurement conditions: outside the building model (OS), inside the model with both closed (CW) and open window (OW). The relative values of sound reduction in every angle were mapped and a Correlation Modeling was then empirically developed and theoretically validated by origin-8 software. As a result, the empirical validation formula deviation averaged only 1.20% and 1.13% during take-off and landing respectively from the actual noise and the theoretical validation. Furthermore, the new modeling was verified as a derivation from the grand theory of inverse square law and could be applied for master plan design. View Full-Text

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Buildings
Volume 9, Issue 1, 21 January 2019, Article number 27

Establishing grounds for building orientation mapping and validation of noise level correlation modeling on aircraft take-off and landing (Article) (Open Access)

Setyowati, E.^a Budihardjo, M.A.^b Putri, A.R.^c

^aArchitecture Department, Faculty of Engineering, Universitas Diponegoro, Semarang, 50275, Indonesia

^bEnvironmental Engineering, Faculty of Engineering, Universitas Diponegoro, Semarang, 50275, Indonesia

^cUrban and Regional Planning Department, Sultan Agung University, Semarang, 50112, Indonesia

Abstract

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This research highlights correlation modeling between residential buildings orientation toward the runway as noise source and noise level. Many studies used noise mapping to identify noise performance in cities, but none of them discussed building orientation as an effort to reduce noise. This research aims to resolve the noise exceeding threshold of 55 dB for landed residential area. The method used was empirical experiments based on ISO 1996-1 using a 1:1-scaled building block model that was rotatable on its axis on various orientation angles. To examine the difference in sound reduction patterns, measurements were carried out during aircraft take-off and landing in three measurement conditions: outside the building model (OS), inside the model with both closed (CW) and open window (OW). The relative values of sound reduction in every angle were mapped and a Correlation Modeling was then empirically developed and theoretically validated by origin-8 software. As a result, the empirical validation formula deviation averaged only 1.20% and 1.13% during take-off and landing respectively from the actual noise and the theoretical validation. Furthermore, the new modeling was verified as a derivation from the grand theory of inverse square law and could be applied for master plan design. © 2018 by the authors.

SciVal Topic Prominence

Topic: Noise | Noise pollution | noise sensitivity

Prominence percentile: 97.783

Author keywords

Aircraft noise Building orientation angle Correlation modeling Modeling validation Rotatable building model

Funding details

Table with 3 columns: Funding sponsor, Funding number, Acronym. Row 1: 149-06/UN7.5.1/PG/2015

Funding text #1

Funding: This research was funded by Indonesian Ministry of Research, Technology, and Higher Education (grant number 149-06/UN7.5.1/PG/2015) on MP3EI fiscal year 2015, grant number 101-73/UN7.P4.3/PP/2018. on HIKOM fiscal year 2018 and Universitas Diponegoro grant number 474-106/UN7.P4.3/PP/2018 on RPI fiscal year 2018.

Funding text #2

Acknowledgments: The authors would like to give gratitude to the Ministry of Research, Technology and Higher Education and the Universitas Diponegoro that awarded the research grants. We also give our thanks to the Building Technology laboratory, Department of Architecture, Faculty of Engineering, Universitas Diponegoro on providing facilities in processing data.

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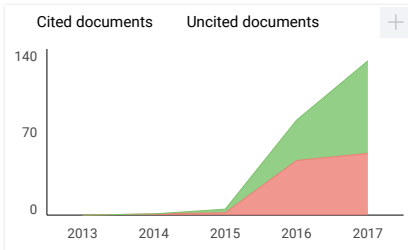
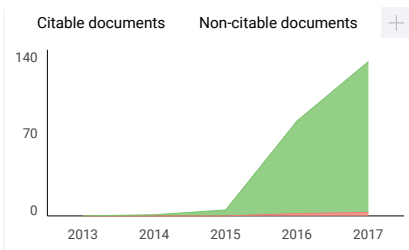
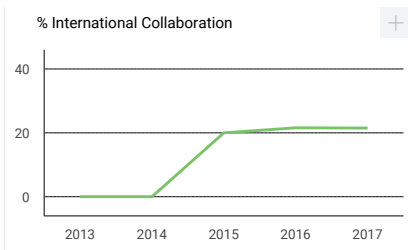
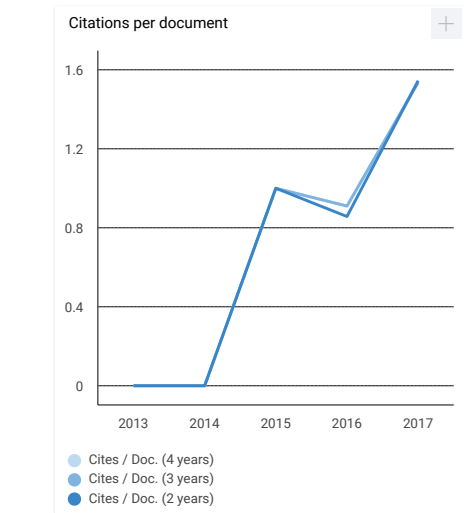
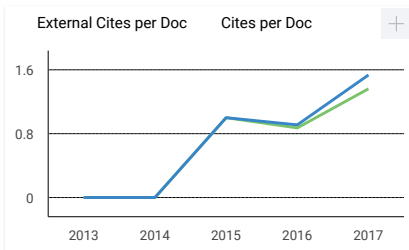
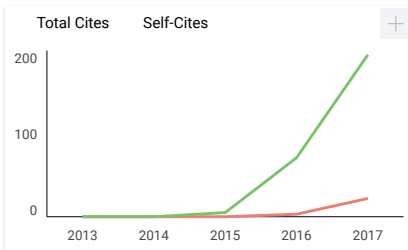
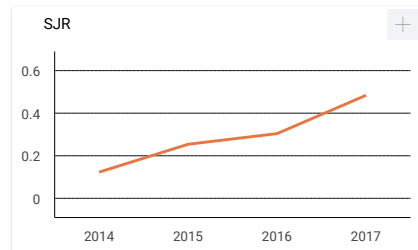
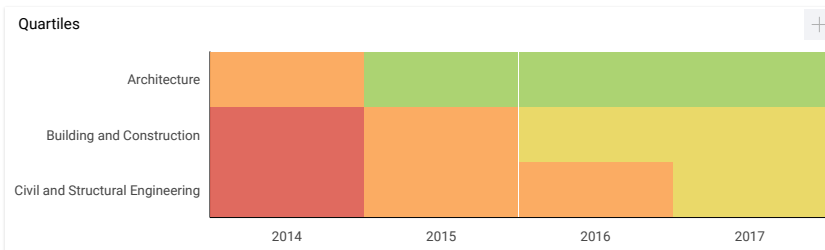
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Buildings

9

H Index

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[Architecture](#)
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- Publisher** [Stamats Buildings Media, Inc.](#)
- Publication type** Journals
- ISSN** 00073725
- Coverage** 1996-2002, 2015-ongoing
- Scope** Buildings covers the following scope of research: - architecture - architectural/building engineering - design - building construction - construction management - building materials - energy and buildings - building operations - building physics - building structures - building mechanical systems - building lighting systems - green buildings - building/facility management - the philosophy, art and science of architecture designing - the linkages and interactions between the built environment and ecology, natural resources, climate, local communities, public policy, and economic development
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Authors: Erni Setyowati *, Mochamad Arief Budihardjo, Agitta Raras Putri

Received: 13 December 2018

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Received: 13 December 2018

E-mails: ernisetowati@arsitektur.undip.ac.id, m.budihardjo@ft.undip.ac.id, agittararas@gmail.com

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Authors: Erni Setyowati *, Mochamad Arief Budihardjo, Agitta Raras Putri

Received: 13 December 2018

E-mails: ernisetowati@arsitektur.undip.ac.id, m.budihardjo@ft.undip.ac.id, agittararas@gmail.com

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Kepada: Erni Setyowati <ernisetowati@arsitektur.undip.ac.id>

Cc: Mochamad Arief Budihardjo <m.budihardjo@ft.undip.ac.id>, Agitta Raras Putri <agittararas@gmail.com>, Buildings Editorial Office <buildings@mdpi.com>

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Balas Ke: buildings@mdpi.com

Kepada: ernisetiyowati@arsitektur.undip.ac.id, m.budihardjo@ft.undip.ac.id, agittararas@gmail.com

Cc: billing@mdpi.com, website@mdpi.com, buildings@mdpi.com, kelly.kong@mdpi.com

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