

International Conference on Sustainability in Architectural Design and Urbanism (ICSADU 2017)

IOP Conference Series: Earth and Environmental Science
Volume 99

Semarang, Indonesia
9 – 10 August 2017

ISBN: 978-1-5108-5528-1
ISSN: 1755-1307

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2017) by the Institute of Physics
All rights reserved. The material featured in this book is subject to
IOP copyright protection, unless otherwise indicated.

Printed by Curran Associates, Inc. (2018)

For permission requests, please contact the Institute of Physics
at the address below.

Institute of Physics
Dirac House, Temple Back
Bristol BS1 6BE UK

Phone: 44 1 17 929 7481
Fax: 44 1 17 920 0979

techtracking@iop.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

Table of contents

Volume 99

**International Conference on Sustainability in Architectural Design and Urbanism
2017**

9–10 August 2017, Semarang, Indonesia

Accepted papers received: 5 December 2017

Published online: 5 January 2018

Preface

[International Conference on Sustainability in Architectural Design and Urbanism 2017](#)

[International Conference on Sustainability in Architectural Design and Urbanism 2017](#)

[Peer review statement](#)

Papers

[The Role of Stakeholders Related to the Management of Ecological Function of Urban
Green Open Space. Case Study: City of Depok, Indonesia](#)

Andy Anton Mangopa Malik.....1

[Passive fire protection in high density village \(case study, Bustaman Semarang\)](#)

Sukawi Sukawi, Satriya Wahyu Firmandhani and Gagoek Hardiman.....13

[The evaluation the magnitude radiation exposure dose rate in digital radiography room
design](#)

Agung Dwiyanto, Wahyu Setia Budi and Gagoek Hardiman.....20

[The effect of earthquake on architecture geometry with non-parallel system irregularity configuration](#)

Livian Teddy, Gagoek Hardiman, Nuroji and Sri Tudjono.....27

[The uniqueness and complexity of kampung city Bustaman Semarang Indonesia](#)

Budi Sudarwanto, Gagoek Hardiman, Atiek Suprapti and Agung B Sarjono.....34

[Building resilience in heritage district: lesson learned from Kotagede Yogyakarta Indonesia](#)

Dwita Hadi Rahmi.....41

[Study on the alternative mitigation of cement dust spread by capturing the dust with fogging method](#)

Jaka Purwanta, Tjukup Marnoto, Prabang Setyono and Ari Handono Ramelan.....48

[Resilient design in the conservation of Johar market heritage building](#)

Totok Roesmanto.....54

[Socio spatial adaptation as a resilience form of native unplanned settlement in confrontation with new planned settlement development pressure \(case study: enclave native settlement in Serpong, Tangerang\)](#)

Mohammad Ischak, Bambang Setioko and Dedes Nurgandarum.....61

[Waste processing building with incineration technology](#)

Wasilah Wasilah and Muh. Zaldi Suradin.....74

[Typology of social space in Kauman Kampong Semarang](#)

Edward Endrianto Pandelaki, Atiek Suprapti and Satriya Wahyu Firmandhani.....82

[Algae façade as green building method: application of algae as a method to meet the green building regulation](#)

Heru W. Poerbo, Widjaja Martokusumo, M. Donny Koerniawan, Nissa Aulia Ardiani and Susan Krisanti.....88

[Resiliency and affordability of housing design, Kampong Cieunteung-Bale Endah in Bandung Regency as a case study](#)

Allis Nurdini, Wanda Yovita and Patriot Negri.....97

[Resident satisfaction on their residence and environment \(case study of Sron dol Bumi Indah Housing of Semarang City\)](#)

Paulus Hariyono.....105

[Exploring collective memory and place attachment using social media data](#)

Sushardjanti Felasari, Herybert Setyabudi, Djoko Budiyanto Setyohadi and Sinta Dewi.....113

[Ecological wisdom of Hindu-Javanese community settlement in Cetho Hamlet, Lawu Mountains, Central Java, Indonesia](#)

Fauzan Ali Ikhsan, Bambang Setioko and Atiek Suprapti.....121

[Thermal evaluation for exposed stone house with quantitative and qualitative approach in mountainous area, Wonosobo, Indonesia](#)

Hermawan Hermawan and Eddy Prianto.....130

[Community participation towards the value of traditional architecture resilience, on the settlements' patters in Tenganan village, Amlapura](#)

Listyana Febriani and I Gede Wyana Lokantara.....140

[Mural art as a media on making urban kampung's public space](#)

Dalhar Susanto, Widyarko Widyarko and Ajeng Nadia Ilmiani.....148

[The impact of green building approach to office property value](#)

Yosephine Sitanggang and Dalhar Susanto.....157

[Local Material as a Character of Contemporary Interior Design in Indonesia](#)

Dalhar Susanto, Dini Puti Angelia and Tria Amalia Ningsih.....163

[Prefabricated house in real estate business development in Jabodetabek](#)

Raka Gumilang Raksamala Basmara Putra and Dalhar Susanto.....173

[Sacred Space in Community settlement of Kudus Kulon, Central Java, Indonesia](#)

Agung Budi Sardjono and Arnis Rochma Harani.....182

[Proposal of stack Effect technology for predicted future years](#)

FX Teddy Badai Samodra and Iwan Adi Indrawan.....188

[Universal design characteristic on themed streets](#)

Bangun IR Harsritanto, Indriastjario and Wijayanti.....197

[Resilience of Historical Urban Multi-ethnic Settlement: Entrepreneurship and Religiosity
Concept of Gresik City](#)

Dian Ariestadi, Antariksa, Lisa Dwi Wulandari and Surjono.....205

[Spatial adaptation as the Madurese migrant resilience form at urban informal sector
workers settlement: a case study of Kotalama settlement - Malang](#)

Damayanti Asikin, Antariksa, Lisa Dwi Wulandari and Wara Indira Rukmi.....213

[Café as third place and the creation of a unique space of interaction in UI Campus](#)

Yulia Nurliani Lukito and Anneli Puspita Xenia.....221

[Spatial change transformation of educational areas in Bandung](#)

Asep Yudi Permana and Karto Wijaya.....229

[Enganging the past of the city through the conservation of heritage building](#)

Yulia Nurliani Lukito and Amalia Nurul Rizky.....241

[The conservation of Javanese-cultured city through visual expression study on the architecture of Keraton Yogyakarta](#)

Ibrahim Tohar, Gagoek Hardiman and Suzanna Ratih Sari.....249

[Problems of low-rise residential area of Seoul - Focused on Malmi village of Guemcheon-gu, Seoul, Korea -](#)

Yeoryung Seo and Saehoon Kim.....258

[Planning a new type of cultural community space in Goyang City, Korea](#)

Jeonghye Kim and Saehoon Kim.....264

[Conservation of Semarang chinatown traditional settlement as physical characteristics of chinatown district](#)

Bintang Noor Prabowo, Ratih Widiastuti and C. N. Bramiana.....271

[Towards a harmonious development between nature and culture on Walisanga religious site, Indonesia – learning from the best practices in Japan](#)

Atiek Suprpti, Edward E. Pandelaki, Indriastjario, Agung Budi Sardjono, Yosidha Tomohiko, Yagi Masao and Adriana P. Higashino.....278

[Principles and concepts in designing tropical-shore settlement in estuary ecosystem. case study: Weriagar District, Bintuni Bay](#)

Firmansyah, Bintang Nidia Kusuma, Ira Prayuni and Aldo Fernando.....289

Towards the new urban agenda of safe cities: urban crimes in four Indonesian cities

B. Setiawan.....297