

51st Annual Conference of the Environmental Design Research Association 2020

Tempe, Arizona, USA
4 – 7 April 2020

Editors:

**Chingwen Cheng
Olivier Vallerand
Linda Nubani**

**Deni Ruggeri
Claudia Bernasconi**

ISBN: 978-1-7138-1577-8

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© (2020) by The Environmental Research Design Association (EDRA)
All rights reserved.

Printed with permission by Curran Associates, Inc. (2020)

For permission requests, please contact The Environmental Research Design Association (EDRA)
at the address below.

The Environmental Research Design Association (EDRA)

2010 Pear St.
#1060 Pinole, CA
94564-9998

www.edra.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

Keynote Address & Plenary Sessions	1
Opening Keynote: The Hip Hop Architecture	3
Closing Keynote: Connection Versus Correction	3
Opening Ceremony with Land Recognition & Special Remarks.....	4
Planery Session: Post-Colonial Decolonization Design with Communities: Transform our design thinking, research, and practice moving forward	5
Awards & Recognition	9
EDRA Awards and Recognition Committee	10
2020 Michael Brill Grant Recipient	11
EDRA 2020 Career Awards	12
2020 Certificate of Research Excellence (CORE) Recipients & Jurors	13
EDRA Great Places Awards 2020.....	17
Refereed Full Papers	21
Methodology for Measuring Arable Land in Urban and Suburban Morphology	23
An Environmental-Economic Friendly Construction, Robot-Aided Fabrication with Clay: An Experimental Study... ..	29
Building Performance Evaluation in Hospital Ward Planning By Nursing Travel Distance Simulation Using BIM.....	40
Environmental Influence on Pro-Environmental Behavioral Intentions, Pro-Social Behavioral Intentions, and Donative Behavior.....	50
Emergency Management and Signage System of Chubu International Airport: A Study on Facility Management of Airport Terminal Building.....	63
Examining Police Officer’s Workplace in Police Box and Residential Police Box in Mie Prefecture, Japan	72
Forms of Nature in Play-Space Making	80
Farmers Markets As Restorative Environments	89
Living in Transition: Displacement and Temporary Living Arrangements after the Woolsey Fire in Southern California	101
Designing Inclusive SMART Cities: The Opportunities and Challenges	115
Fuhais Community Identity As Defensibility Mechanism Against Threats of Urban Sprawl	123
Using Post-Occupancy Evaluation to Analyze the Effective Use of Photovoice and Focus Groups in Developing a Successful Program for an International Service Learning Design Project	139
Historic Preservation Survey Methodology for Equitable Outcomes	154
Just US: Equity-Centered Revitalization in Traditionally BLACK Neighborhoods.....	171
The Analysis of Bias with Visual Illustrations.....	180
Abstracts - Individual Presentations	185
Abstracts - Group Presentations	283
Abstracts - Pre-Conference Intensives	303
Abstracts - Video Shorts	311
Abstracts - Posters	315
Reviewers	353
Author Index	357