

2017 Pacific Neighborhood Consortium Annual Conference and Joint Meetings (PNC 2017)

**Tainan, Taiwan
7-9 November 2017**



IEEE Catalog Number: CFP17M10-POD
ISBN: 978-1-5386-2084-7

**Copyright © 2017, Pacific Neighborhood Consortium
All Rights Reserved**

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number: CFP17M10-POD
ISBN (Print-On-Demand): 978-1-5386-2084-7
ISBN (Online): 978-9-8695-3170-2

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
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

Table of Contents

The Strategic Development and Spatial Information Applications of Smart Cities in Taiwan.....	1
<i>Tien-Yin Chou¹, Yang-Tien Hsu¹, ¹Feng Chia University</i>	
Bridging the Digital Divide with Information Technology in Taiwan: A Community and Public Policy Approach	8
<i>Wen-Wei Hsiu¹, Yaonan Lin², ¹National Dong Hwa University, ²Fu Jen Catholic University</i>	
Practices of Innovative Technology and Education for Sustainability in Taiwan Sustainable Campus Program.....	15
<i>Yen-Yi Li¹, Hsin-Hao Chen², Wen-Cheng Shao³, Shuh-Ren Jing⁴, Fong-Yu Chiu⁵, Huey-Jen Jenny Su⁶, ¹ShuTe University, ²National Taitung Junior College, ³National Taipei University of Technology, ⁴Chia Nan University, ⁵Ministry of Education, ⁶National Cheng Kung University</i>	
Academic Writing as Corpus for Assessment of ePortfolio	23
<i>Tosh Yamamoto¹, Masaki Watanabe¹, Maki Okunuki², ¹Kansai University, ²Kwansei Gakuin University</i>	
Constructing Methodology of Research Resource Information in Premodern Japan: Spatial Information and Linked Data.....	37
<i>Makoto Goto, National Museum of Japanese History</i>	
Detection of Topics from Newspaper and its Analysis of Temporal Variations in Regions.....	44
<i>Taizo Yamada, The University of Tokyo</i>	
Linked Data and IIIF: Integrating Taxonomy Management with Image Annotation.....	50
<i>Gene Loh, Synaptica</i>	
Development of a Text Retrieval and Mining System for Taiwanese Historical People	56
<i>Shun-Hong Sie¹, Hao-Ren Ke¹, Su-Bing Chang¹, ¹National Taiwan Normal University</i>	
Film Language Analysis in Society News-A Case Study of The New York Times	63
<i>Te-Yuan Chen¹, Hsuan-Chi Liu¹, Chia-Yu Hsu¹, ¹National Taiwan University</i>	

Digital Gazetteer as a Knowledgebase for Open Data Science.....	69
<i>Shoichiro Hara, Kyoto University</i>	
Basic Linked Data Resource for Temporal Information	76
<i>Tatsuki Sekino, Research Institute for Humanity and Nature</i>	
Transform Children's Library into a Mixed-reality Learning Environment Using Smartwatch Navigation and Information Visualization Interfaces	83
<i>Ko-Chiu Wu¹, Chun-Ching Chen¹, Tzu-Heng Chiu², I-Jen Chiang²,</i>	
<i>¹National Taipei University of Technology, ²Taipei Medical University</i>	
Approaching a New Episode of Digital Content Creative Reuse at the National Palace Museum.....	92
<i>James Quo-Ping Lin¹, Alan Chi-Gwong Cheung¹, Shao-Chun Wu¹,</i>	
<i>¹National Palace Museum</i>	
Geographic Names on Old Maps of Early 20th Century toward a Spatio-temporal Gazetteer: A study on their Accuracy in Northeast Thailand.....	98
<i>Yoshikatsu Nagata, Osaka City University</i>	
Transcoding Intangible Heritage: The Folklore Stories of Malaysia	104
<i>Delas Santano, Sunway University</i>	
Proactive Guiding with iBeacon in Art Museum	110
<i>Wen-Thong Chang, Asia University</i>	
An Ontology-based Expert System for Representing Cultural Meanings: An Example of an Art Museum.....	116
<i>Feng-Tyan Lin¹, Yu-Chih Lin¹, ¹National Cheng Kung University</i>	
Multi-Dimensional Spatio-Temporal Data Model – Application to Tourism Guidance System of Cultural Resources.....	122
<i>Ching-Sheng Chiu¹, Chin-Chien Cheng¹, Yu-Chih Lin², ¹Feng Chia University, ²National Cheng Kung University</i>	
Computing Biodiversity Change via a Soundscape Monitoring Network.....	128
<i>Tzu-Hao Lin¹, Yu Tsao¹, Yu-Huang Wang², Han-Wei Yen³, Sheng-Shan Lu⁴, ¹Academia Sinica, ²Taiwan Academy of Ecology, ³Academia Sinica Grid Computing Centre, ⁴Taiwan Forestry Research Institute</i>	
User-Generated Storytelling Based on Analog Maps with Local and Dynamic Georeferencing.....	134
<i>Min Lu¹, Ruochen Si¹, Masatoshi Arikawa¹, Hideki Kaji¹, ¹The University of Tokyo</i>	
Timeline Collaging as an Extension of Map Collaging Using Geo-Referencing and Time-Referencing	142
<i>Ruochen Si¹, Masatoshi Arikawa¹, Min Lu¹, Hideki Kaji¹, ¹The University of Tokyo</i>	

The Fire Insurance Maps of Taiwan and Sakhalin Owned by the Chiyoda City's Hibiya Library & Museum	150
<i>Makihiko Tsujihara¹, Akihito Aoi², Satoru Kaku³, ¹Prefectural University of Kumamoto, ²Meiji University, ³Nagoya City University</i>	
Investigating Daily Temporal Patterns of Social Media Usage by Cellphone Log.....	156
<i>Chen-Yi Yu, Academia Sinica</i>	
Communication and Aso Tourism Revival Post-Earthquake 2016: Using Web Technology for English Information Spread.....	162
<i>Jeffrey Stewart Morrow, Prefectural University of Kumamoto</i>	
Speed as Context of App Usage in Daily Life: A Data Analysis Method.....	168
<i>Ji-Lung Hsieh¹, Chen-Yi Yu², ¹National Taiwan University, ²Academia Sinica</i>	
Virtual Reality 360 Content Preservation for Disaster Relief	174
<i>Zi Siang See¹, David Blundell², Harold Thwaites¹, ¹Sunway University, ²National Chengchi University</i>	
Digital Museology and “the Politics of Memory”	180
<i>Alan Potkin, Northern Illinois University</i>	
Integrating SQ4R and Student Team Achievement Division (STAD) Teaching Strategies with e-Books to Enhance Students’ English Reading Comprehension	187
<i>I-Ting Wang¹, Ting-Ting Wu¹, Yu-Cheng Chien², Yueh-Min Huang², ¹National Yunlin University of Science and Technology, ²National Cheng Kung University</i>	
Humanoid Avatar Motion Capture Recording System in Virtual Lab for Educational Tutorials	193
<i>Tai-Lin Kuo, National Central University</i>	
Author Index	200