

2016 International Conference on ICT For Smart Society (ICISS 2016)

**Surabaya, Indonesia
20 – 21 July 2016**



**IEEE Catalog Number: CFP1613V-POD
ISBN: 978-1-5090-1621-1**

**Copyright © 2016 by the Institute of Electrical and Electronics Engineers, Inc
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

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

IEEE Catalog Number:	CFP1613V-POD
ISBN (Print-On-Demand):	978-1-5090-1621-1
ISBN (Online):	978-1-5090-1620-4

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

A Survey of Cyber Crime in Indonesia	1
<i>R. Saputra</i>	
Bandwidth Allocation-Aware Scheduling Algorithm for Video-on-Demand Application Over Digital Learning Network.....	6
<i>E. Triningsih, Y. Bandung</i>	
City Analytic Development for Modeling Population Using Data Analysis Prediction	12
<i>G. Firmansuddin, I. Supangkat, M. Eng</i>	
Dam Water Level Prediction System Utilizing Artificial Neural Network Back Propagation - Case Study: Ciliwung Watershed, Katulampa Dam.....	16
<i>A. Anindita, P. Laksono, I. Nugraha</i>	
Design of Knowledge Management System - Case Study : PT Pos Indonesia (Persero).....	22
<i>M. Junaedi, Y. Rosmansyah</i>	
Design of National Metrology Smart System.....	26
<i>D. Koyeni, S. Supangkat</i>	
Experience In Learners Review To Determine Attribute Relation For Course Completion	32
<i>F. Lubis, Y. Rosmansyah, S. Supangkat</i>	
Designing Enterprise Architecture Framework for Non-cloud to Cloud Migration Using TOGAF, CCRM, and CRMM	37
<i>I. Santikarama, A. Arman</i>	
Feeder Bus Routing Problem using A Genetic Algorithm: Surotram Case Study	43
<i>I. Vanany, R. Rosyadi, U. Ciptomulyono, D. Hartanto, M. Khoiri</i>	
Generation Quiz with Genetic Algorithm Based on Bloom's Taxonomy Classification in Serious Game Based Virtual Environments.....	48
<i>Rasim, A. Langi, Y. Rosmansyah, Munir</i>	
Integrated Pollution Monitoring System for Smart City.....	55
<i>B. Siregar, A. Nasution, F. Fahmi</i>	
Information Extraction for Traffic Congestion in Social Network - Case Study: Bekasi City.....	59
<i>M. Alifi, S. Supangkat</i>	
Missing Data Handling using Machine Learning for Human Activity Recognition on Mobile Device	65
<i>O. Prabowo, K. Mutijarsa, S. Supangkat</i>	
Prediction of Multi Currency Exchange Rates Using Correlation Analysis and Backpropagation	69
<i>I. Ramadhani, Jondri, R. Rismala</i>	
Smart City Framework Based On Business Process Re-Engineering Approach	75
<i>P. Budhiputra, K. Putra</i>	
Smart City Planning System on Settlement Area	80
<i>M. Djimantoro</i>	
Social Media Analysis Supporting Smart City Implementation (Practical Study in Bandung District)	86
<i>Roessobiyatno, T. Anggoro, B. Nainggolan, E. Purwandesi</i>	
Smart City Nusantara Development through the Application of Penta Helix Model (A Practical Study to Develop Smart City based on Local Wisdom).....	93
<i>D. Effendi, A. Subiyanto, F. Syukri, R. Utidityasan</i>	
Social Media as a New Channel Learning For Higher Education (A Survey Approach).....	99
<i>T. Oktavia, Meyliana, H. Prabowo, S. Supangkat</i>	
The Study of e-Government Implementation in Improving the Quality of Public Services (A Study on Society in Bandung Region).....	105
<i>Ariwati, R. Febrilantina, S. Ristekawati, Zakiah</i>	
A Comparison Study of Smart City in Taipei and Surabaya.....	111
<i>N. Alamsyah, T. Susanto, T. Chou</i>	
Smart City's Context Awareness Using Social Media	119
<i>F. Pumomo, Y. Heryadi, F. Gaol, M. Ricky</i>	
Author Index	