

# IACSIT International Journal of Engineering and Technology

## CONTENTS

---

---

### Volume 5, Number 3, June 2013

- An Investigation on Mobile Communication Technologies and Their Effects on Elderly.....336  
*F. Sahar and S. T. Raza*
- Using the Fast Multi-Objective Genetic Algorithm to Improve the Urban Flood Modeling.....341  
*M. Rezoug, R. E. Meouche, R. Hamzaoui, and Z.-Q. Feng*
- Impinging Diffusion Flame and NO Production.....345  
*Nadjib Ghiti, Abed Alhalim Bentebbiche, and Samir Hanchi*
- Run-to-Run Mixed Product Overlay Process Control: Using Tool Based Disturbance Estimator (TBDE) Approach.....349  
*An-Chen Lee, Tzu-Wei Kuo, and Shang-Wei Chiang*
- An Invisible Network of Knowledge of Security and Privacy of Health.....357  
*Cheng-Kun Wang*
- Design of the Nios II System for the Playing of Wave Files on an Altera DE2 Board.....361  
*S. Moslehpour, K. Jenab, P. D. Weinsier, and B. K. Matcha*
- Strengthening of Masonry Arch Bridges with Near-Surface Reinforcement: A Case Study.....370  
*S. W. Garrity*
- An Improvement of Zalik's Containment Test Algorithm and Applications on Terrain Query.....374  
*Le Hoang Son, Nguyen Duy Lin, and Nguyen Thi Hong Minh*
- Interactive Axial-Moment Dynamic Buckling of Beams by Spline Finite Element.....382  
*Hao Yang, Sai-Huen Lo, and Yee Tak Leung*
- Advanced Seismic Retrofit of a Low-Rise R/C Building.....386  
*S. Sorace and G. Terenzi*
- Buckling Load of Thin Spherical Shells Based on the Theorem of Work and Energy.....392  
*Peter N. Khakina*
- Development of Thermal Insulation Plasters for Insulating and Sanitation of Building Constructions.....395  
*J. Zach, R. Hela, M. Sedlmajer, and J. Hroudova*
- An Investigation on Perspective of Usability and Functionality of Mobile Phones for Elderly.....398  
*S. T. Raza and F. Sahar*
- Accelerated Pavement Testing at University of Žilina.....402  
*Ján Mikolaj, Ľubomír Pepucha, Katarína Zgútová, and Ľuboš Remek*
- Damped Interconnection-Based Mitigation of Seismic Pounding between Adjacent R/C Buildings.....406

*S. Sorace and G. Terenzi*

Stabilized Earth Housing Delivery through the Public-Private Partnership: Panacea to Inadequate Housing Provision for the Low-Income in Nigerian Cities.....	413
<i>A. A. Taiwois and Y. M. D. Adedeji</i>	
Using a Laser Scanning to Construct a 3D Numerical Model to Study the Flooding Risk in Urban Area.....	416
<i>R. E. Meouche, M. Rezoug, W. Vandevenne, and R. Hamzaoui</i>	
Travel Time Modeling and Simulation of a Mobile Racks Automated Storage/Retrieval System.....	420
<i>Amine Hakim Guezzen, Zaki Sari, Pierre Castagna, and Olivier Cardin</i>	
Time Dependent Spectrum Analysis of Transient Signals: Application to Seismic Engineering.....	424
<i>Hammoutène Malek and Tiliouine Boualem</i>	