

# IACSIT International Journal of Engineering and Technology

## CONTENTS

---

---

### Volume 8, Number 4, April 2016

#### • Civil Engineering and Applications

- Dynamic Optimization of Structures Subjected to Earthquake.....227  
*Alireza Lavaei and Alireza Lohrasbi*
- Analytical Investigation of Seismic Behavior of Building Structures with an Inertial Force-Limiting Floor Anchorage System.....234  
*D. Zhang, R. B. Fleischman, and Z. Zhang*
- Parametric Models of Facade Designs of High-Rise Residential Buildings.....241  
*Yuchen Sharon Sung and Yingjui Tseng*
- Hydraulic Model of Dam Break Using Navier Stokes Equation with Arbitrary Lagrangian-Eulerian Approach .....249  
*Alireza Lohrasbi, Moharram Dolatshahi Pirooz, and Alireza Lavaei*
- Productivity Improvement of the Concrete Construction Work.....254  
*S. Sasaki, Y. Uno, S. Hashimoto, and S. Date*
- Investigation and Performance Improvement of Hot Mix Asphalt Concrete Containing EAF Slag.....260  
*N. Hosseinzadeh, M. J. Rezaei, and S. M. Hosseini*
- Experimental Studies on Controlled Low Strength Material Using Stone Dust and EPS Beads.....265  
*V. R. Marjive, V. N. Badwaik, and B. Ram Rathan Lal*
- The Evaluation of Steel Frame Structures with Viscoelastic Dampers.....269  
*Ali Khoshraftar*
- #### • Intelligent Control System
- Predictive Models for Equipment Fault Detection in the Semiconductor Manufacturing Process.....273  
*Sathyan Munirathinam and Balakrishnan Ramadoss*
- Drive Advisory System: Do Swedish and Chinese Drivers Appreciate It in the Same Way?.....286  
*Min Juan Wang, Lian Duan, Jia Xin Wang, Lin Li, Dong Sun, and Fang Chen*
- Using Mobile Phone Sensors to Detect Rapid Respiratory Rate in the Diagnosis of Pneumonia.....293  
*Xingjuan Li*
- An Induced Fluorescence Detecting System with Autofocus Electrically Tunable Len.....297  
*Chang Zhou, Xiaoming Hu, and Ya Zhou*
- #### • Computer and Physical Sciences
- An Overview of Semi-Supervised Fuzzy Clustering Algorithms.....301

*Pham Huy Thong and Le Hoang Son*

Conservation of Flux in Superradiance Phenomenon.....	307
<i>Petarpa Boonserm, Tritos Ngampitipan, and Matt Visser</i>	
Rigorous Bounds on Greybody Factors: Scalar Emission of Negative Angular Momentum Modes from Myers-Perry Black Holes.....	311
<i>Tritos Ngampitipan, Petarpa Boonserm, Auttakit Chatrabhuti, and Matt Visser</i>	