

# IACSIT International Journal of Engineering and Technology

## CONTENTS

---

---

### Volume 3, Number 4, August 2011

Design and Implementation of an Efficient Natural Algorithm to Solve Towers of Hanoi Puzzle having Multiple Towers & Disks.....	334
<i>A. S. Zaforullah Momtaz, Md. Fayyaz Khan, Muhammad Sajjad Hossain, Aloke Kumar Saha and Kazi Shamsul Arefin</i>	
Alternative Approach of Inventive Problem Solving for Digital Right Management Technology Innovation.....	338
<i>Song-Kyoo Kim</i>	
Thai Buddhist Sculpture Recognition System (TBuSRS).....	342
<i>Chomtip Pornpanomchai, Vachiravit Arapong, Pornpatch Iamvisetchai and Nattida Pramanus</i>	
Leaf and Flower Recognition System (e-Botanist).....	347
<i>Chomtip Pornpanomchai, Chawin Kuakiatngam, Pitchayuk Supapatrannon and Nititat Siriwisesokul</i>	
Engine Torque Control of Spark Ignition Engine Using Robust Fuzzy Logic Control.....	352
<i>Aris Triwiyatno, Mohammad Nuh, Ari Santoso and I Nyoman Sutantra</i>	
Risk and Hazard Operability Process of Deep Water Marine System.....	359
<i>A.H. Saharuddin, O. O. Sulaiman and A.S.A. Kader</i>	
A Proposed Development of Dc-Dc Transformer Using ĆUK Regulator.....	369
<i>Md.Rakibul Hasan, Mohammad Ashraf Hossain Sadi, Ifat Al-Baqee, Md. Shahidul Islam Bhuiyan and Md. Kamal Hossain</i>	
Heuristic Optimization Algorithms for Terrain Splitting and Mapping Problem.....	376
<i>Nguyen Duc Thien, Le Hoang Son, Pier Luca Lanzi and Pham Huy Thong</i>	
Reversal Mode of Thermally Assisted Magnetization Reversal on Perpendicularly Magnetized Nano-Dot.....	384
<i>Nur Aji Wibowo and Budi Purnama</i>	
A New Approach for Mitigation of Voltage Dips on MV/LV Distribution Network.....	388
<i>S. Sundeep, Trinath .K, Ch. Naga Koti Kumar and P. Linga Reddy</i>	
Algorithm to Detect and Segment Gurmukhi Handwritten Text into Lines, Words and Characters.....	392
<i>Rajiv Kumar and Amardeep Singh</i>	
Formulation of Preventive Maintenance Schedule for Dragline System.....	396
<i>P. V. Washimkar, V. S. Deshpande, J. P. Modak and A. V. Nasery</i>	
Threshold Based Edge Detection Algorithm.....	400
<i>B.Poornima, Y.Ramadevi and T.Sridevi</i>	

Improved Algorithms for Document Classification & Query-based Multi-Document Summarization.....	404
<i>Suzanne D' Silva, Neha Joshi, Sudha Rao, Sangeetha Venkatraman and Seema Shrawne</i>	
Numerical Studies on Effects of Blade Number Variations on Performance of Centrifugal Pumps at 4000 RPM.....	410
<i>S.Chakraborty and K.M.Pandey</i>	
Impact Analysis of E-Initiatives in Uttarakhand.....	417
<i>Kunwar Singh Vaisla, Manoj Kumar Bisht and Durgesh Pant</i>	
Grinding Process on AlSiC composite material and Optimization of surface roughness by ANFIS.....	425
<i>P.Babu Aurtherson, S.Sundaram, A.M.Shanawaz and M.Siva Prakash</i>	
Sine/Cosine Generator Using Pipelined CORDIC Processor.....	431
<i>R. Ranga Teja and P. Sudhakara Reddy</i>	
Design & Analysis of an Optimized Grid-tied PV System: Perspective Bangladesh.....	435
<i>Md. Rejwanur Rashid Mojumdar, Arif Md. Waliullah Bhuiyan, Hamza Kadir, Md. Nizamul Haque Shakil and Ahmed-Ur-Rahman</i>	
Quality Prediction of Object Oriented Software Using Density Based Clustering Approach.....	440
<i>Supreet Kaur and Dinesh Kumar</i>	