

# **2008 IEEE Conference on Innovative Technologies in Intelligent Systems and Industrial Applications**

**Cyberjaya, Malaysia  
12-13 July 2008**



**IEEE Catalog Number:**  
**ISBN 13:**

**CFP0844E-PRT**  
**978-1-4244-2416-0**

# Table of Contents

<b>Artificial Visual System Algorithm applied on Face Recognition and Tracking .....</b>	<b>1</b>
<i>Lum Mi-Fern, Loo Chu Kiong, Liew Tze Hui</i>	
<b>Design an Embedded GPS Auto Time Synchronizing System.....</b>	<b>8</b>
<i>K. J. Lai, and K. N. Pau</i>	
<b>Developing a blind robot: Study on 2D Mapping .....</b>	<b>12</b>
<i>Lee Siau Yin, Yeoh Kai Sheng, Aryuanto Soetedjo</i>	
<b>Development of an Autonomous Mobile Robot for Floor Marking .....</b>	<b>15</b>
<i>Zulkifli Zainal Abidin, Syamsul Bahrin Abdul Hamid, Ahmad Anis Abdul Aziz, and Azlan Ab. Malek</i>	
<b>Gesture Based Control of Mobile Robots .....</b>	<b>20</b>
<i>Tan Wei Chian, Sim Siang Kok, Seet Gim Lee, Gerald, Ong Kai Wei</i>	
<b>Kinematic &amp; Inverse Dynamic of a Humanoid Robot.....</b>	<b>26</b>
<i>Beshan C. Chameera, Alpha Agape Gopalai, S.M.N.A Arosha Senanayake</i>	
<b>Kinematic Modeling of Driving Simulator Motion Platform.....</b>	<b>30</b>
<i>Chiew, Y. S., Abdul Jalil, M. K., and Hussein, M.</i>	
<b>Solving Radiative Transfer Equation (RTE) in Time-Dependent Mode .....</b>	<b>35</b>
<i>Ow Shen Wah, Joe Wong, Dr. Tan Ching Seong</i>	
<b>Change Detection using a Local Similarity Measure.....</b>	<b>39</b>
<i>M. Jahari, S. Khairunniza-Bejo, A. R. M. Shariff, H. Z. M. Shafri, H. Ibrahim</i>	
<b>Development of Virtual Reality System for Medical Application Using OpenGL.....</b>	<b>44</b>
<i>Daniel Wee Lian Lim, Haidi Ibrahim, Umi Kalthum Ngah</i>	
<b>Implementation of Several Rendering and Volume Rotation Methods for Volume Rendering of 3D Medical Dataset.....</b>	<b>49</b>
<i>Thean Wui Ooi, Haidi Ibrahim, Kenny Kal Vin Toh</i>	
<b>Investigation on Several Methods to Correct the Intensity Inhomogeneity in Magnetic Resonance Images .....</b>	<b>55</b>
<i>Yan Pore Yeoh, Haidi Ibrahim, Nicholas Sia Pik Kong</i>	
<b>Investigation on Several Basic Interpolation Methods for the Use in Remote Sensing Application .....</b>	<b>60</b>
<i>Kian Kee Teoh, Haidi Ibrahim, Siti Khairunniza Bejo</i>	
<b>New Multi-scale Medical Image Segmentation based on Fuzzy CMean (FCM).....</b>	<b>66</b>
<i>M. A. Balafar, Abd. Rahman Ramli, M. Iqbal Saripan, Rozi. Mahmud, Syamsiah Mashohor, Molod. Balafar</i>	
<b>PAR Reduction in Space-Time Coded OFDM via Modified Active Constellation Extension.....</b>	<b>71</b>
<i>Amila Pradeep Kumara T.G., Moh Lim Sim</i>	
<b>Intelligent Traffic Information System for Klang Valley, Malaysia .....</b>	<b>76</b>
<i>Patrick Chin-Hooi, Soh, Kalaivani, K Radakrishnan</i>	
<b>A New Simulation of Distributed Mutual Exclusion on Neural Networks .....</b>	<b>80</b>
<i>Peyman Bayat, Ali Ahmadi, Ali Kordi</i>	
<b>QSCILLOSCOPE: A PC-Based Real Time Oscilloscope .....</b>	<b>92</b>
<i>Yiqi Tew, Bok-Min Goi,</i>	
<b>Semantic Web Service Adaptation Model for a Pervasive Learning Scenario .....</b>	<b>98</b>
<i>B-Y-S. Lau, C. Pham-Nguyen, C-S. Lee, S. Garlatti</i>	
<b>Supporting Service Composition with Ontology-based UPnP AV Architecture in AV Environment.....</b>	<b>104</b>
<i>Kelvin Choy Chuong Wen, Tan Su Wei, Wong Sau Peng, Norliza Mohamad Zaini</i>	
<b>An Investigation on Control Strategies for Fast Transient Response of SMPS .....</b>	<b>110</b>
<i>Jegandren.J, Gobbi.R and Hussain S.Athab</i>	

# Table of Contents

<b>Comparison between Inverter and Differential Amplifier as 0.35<math>\mu</math>m Ring Oscillator Vehicle .....</b>	<b>116</b>
<i>Hasrolnizam bin Mohd Mokhtar, Ahmad Sabirin bin Zoolfakar, Hashimah binti Hashim</i>	
<b>Ride through Capabilities of Load during Voltage Sag/Swell and Power Interruption with Zigzag Transformer .....</b>	<b>119</b>
<i>S. A. Hafidz and K. P. Basu</i>	
<b>Study on Electrical Properties of Zinc Oxide Thin Film .....</b>	<b>123</b>
<i>A. A. Abd Halim, H. Hashim , M. Rusop, M. H. Mamat and A. S. Zoolfakar</i>	