

المؤتمر الدولي للشبكات والوسائط الإلكترونية

The 2009 International Conference on Networking & Media Convergence (ICNM'09)

March, 2009 [http:// www.icnm09.shams.edu.eg](http://www.icnm09.shams.edu.eg)
Information Network - Ain Shams University
Cairo, EGYPT

TABLE OF CONTENTS

MU: MOBILE AND UBIQUITOUS COMPUTING

An Architecture For Wireless Networks With SINR Constraints and Its Performance Upperbounds	1
<i>S. Kucera, Z. Bing</i>	
A Reliable – Double Edged Strategy for HLR Mobility Database Failure Detection and Recovery in PCS Networks.....	7
<i>A.O. Abdelgwad, D.S. Ahmed, A.I. Saleh</i>	
Improving TCP Performance over Mobile Ad Hoc Networks Using an Adaptive Backoff Response Approach.....	14
<i>T.F. Ghanem, W.S. Elkilani, M.M. Hadhoud</i>	

NS 1: COMPUTER NETWORKS AND SECURITY I

Improvement of QOS Management in Wireless Sensor/Actuator Networks Using Fuzzy-Genetic Approach.....	20
<i>M. Hamdy, H. El-Madbouly</i>	
A VHDL Implementation of ONU Auto-discovery Process for EPON	27
<i>A.E. Mady, A. Tonini</i>	
An Energy Level and Distance with Reduce Delayed Based Routing Protocol (ELDRDBRP) in Ad Hoc Wireless Networks	33
<i>M.S. Saraya, A.I. El-Desouki, H.A. Ali</i>	

NS 2: COMPUTER NETWORKS AND SECURITY II

The Impact of Frame Rate on Securing Real Time Transmission of Video over IP Networks	40
<i>N.E.D.M. Khalifa, H.N. Elmahdy</i>	
Comparison Between Control Networks Used In Modern Supervision And Control Systems Of Research Reactors.....	47
<i>E. El-Madbouly, M.K. Shaat, G.M. Attiya, G.H. Elrefaei</i>	
MIDSCYK: An Efficient Provably Secure Multi-Recipient Identity-Based Signcryption Scheme.....	53
<i>H. Elkamchouchi, Y. Abouelseoud</i>	
An Analytical Model of Non-persistent TCP Sessions Sharing a Congested Internet Link.....	59
<i>W.S. Elkilani</i>	

SW: SOFTWARE AND WEB ENGINEERING

Analysis and Enhancement of Software Dynamic Defect Models.....	66
<i>A.H. Yousef</i>	

Novel Similarity Measure for Document Clustering Based on Topic Phrases.....	73
<i>A.E. El-desoky, M. Saleh, N.A. Sakr</i>	
Exploiting Ontology for Retrieving Data Behind Searchable Web Forms	78
<i>A.I. El-desoky, A.O.A. El-Gwad, M.E. Okasha</i>	
Dynamic Ontology Mapping for Communication in Distributed Multi-Agent Intelligent System	84
<i>S.M. El-Ghamrawy, A.I. El-Desouky, M. Sherief</i>	

ME: MULTIMEDIA AND E-LEARNING

An Adaptive Steganographic Technique Based on Integer Wavelet Tranform	90
<i>R.O. El Safy, H.H. Zayed, A. El Dessouki</i>	
Development of Distributed Learning Object Repository	97
<i>A.S. Tolba, A. Atwan, A.M. Atta</i>	
Fast Digital Watermarking Techniques for Still Images	101
<i>M.A. Mohamed, M.E.a. Abou-Soud, M.S. Diab</i>	
Performance of Encryption Techniques for Real Time Video Streaming	109
<i>W.S. Elkilani, H.M. Abdul-Kader</i>	

SP: SIGNAL PROCESSING AND SYSTEMS-ON-CHIP

Classification of Heart Rate Variability Signals Using Higher Order Spectra and Neural Networks	114
<i>M.I. Obayya, F.E.Z. Abou-Chadi</i>	
Fuzzy Adaptive Kalman Filter for Multi-Sensor System	118
<i>E.E. El Madbouly, A.E. Abdalla, G.M. El Banby</i>	
An Efficient Algorithm in Extracting Human Iris Morphological Features.....	123
<i>M.A. Mohamed, M.E.A. Abou-Elsoud, M.M. Eid</i>	
Author Index	