

# 12<sup>th</sup> International Conference on Computer & Information Technology ICCIT-2009

21 - 23 December 2009

Independent University, Bangladesh (IUB)  
IUB Main Campus, Plot-16, Block-B, Aftabuddin Road  
Bashundhara, Dhaka, Bangladesh

## PROGRAM SCHEDULE

Day 1: 21 December 2009

Venue: IUB Main Campus, Bashundhara, Dhaka

### Registration & Kit Distribution

Ground Floor

Time: 13:00 to 15:00 hours

### Inaugural Session

Room: Multipurpose Hall

Time: 15:00 to 16:00 hours

### Snacks/Tea Break

Room: 1031 & 1032

Time: 16:00 to 16:30 hours

### Key Note Session 1

Room: Multipurpose Hall

Time: 16:30 to 18:00 hours

Chair: Professor Dr. Mohammad Ataul Karim, Old Dominion University, USA

Title-1: Information Security and Security Technology: An Overview

Presenter: Professor Dr. M Lutfar Rahman, University of Dhaka, Bangladesh

Title-2: The Next 5000 Days of Internet Service in Bangladesh

Presenter: Jerry Mobbs, CEO, Augere (Bangladesh) Limited

**Technical Session: Day 2-Parallel Session 1 (D2-A1)**

**Algorithms**

Room: 1011

Time: 09:30 to 11:00 hours

Chair: Professor Dr. Md. Monirul Islam, Bangladesh University of Engineering & Technology

- 177 - Packing Identical Circles in a Minimized Circular Container by Monotonic Basin Hopping Heuristic Approach  
R. M. Jalal Uddin Jamali, A. Grosso, M. Locatelli, F. Schoen
- 351 - Multiple-Case Outlier Detection in Least-Squares Regression Model Using Quantum-Inspired Evolutionary Algorithm  
Mozammel H. A. Khan, Salena Akter
- 401 - Hybrid Real-Coded Quantum Evolutionary Algorithm Based on Particle Swarm Theory  
Md. Amjad Hossain, Md. Kowsar Hossain, M.M.A. Hashem
- 499 - A Reduced Complexity Message Passing Algorithm with Improved Performance for LDPC Decoding  
Vikram Arkalgud Chandrasetty and Syed Mahfuzul Aziz
- 652 - A Two-Layer Hierarchical Permission Based Mutual Exclusion Algorithm  
Mohammad Ashiqur Rahman, Md. Mostofa Akbar, Mohammad Shafiul Alam
- 666 - On the Fast Computation of Decimal Logarithm  
Ramin Tajallipour, Daniel Teng, Seok-Bum Ko, and Khan Wahid

**Technical Session: Day 2-Parallel Session 1 (D2-B1)**

**Wireless Communication**

Room: 1012

Time: 09:30 to 11:00 hours

Chair: Dr. Mohammad Tariqul Islam, Universiti Kebangsaan Malaysia

- 385 - Central Base-Station Controlled Density Aware Clustering Protocol for Wireless Sensor Networks  
Mst.Jannatul Ferdous, Tanay Dey
- 392 - A Study on Distributed Diffusion and its Variants  
Nazia Perwaiz, Dr. Muhammad Younas Javed
- 469 - Performance Analysis of DS-CDMA under Perfect and Imperfect Power Control  
Md. Mahbub Hossain, Md. Abdul Awal, Dipankar Roy, Md. Asraful Islam, Md. Anwar Hossain
- 472 - Capacity Enhancement of Limited User Traffic of Mobile Cellular Networks Using DOVE Technique  
Md. Omar Faruq, Md. Arifur Rahman, Md. Imdadul Islam, and M. R. Amin
- 478 - A New Hashing and Caching Approach for Reducing Call Delivery Cost and Location Server's Load in Wireless Mobile Networks  
Md. Mohsin Ali, Md. Amjad Hossain, Md. Kowsar Hossain, G. M. Mashrur-E-Elahi, Md. Asadul Islam
- 487 - Collision Minimization in IEEE 802.11e using the Fine-Tuned Contention Window Mechanism  
Shah Ahsanuzzaman Md. Tariq, Khalada Perveen, Quazi Delwar Hossain, Md. Akbar Hossain

**Technical Session: Day 2-Parallel Session 1 (D2-C1)**  
**Data Communication & Networking**

Room: 1013

Time: 09:30 to 11:00 hours

Chair: Professor Dr. Mohammad Rezaul Haque Khan, International Islamic University Chittagong

188 - Efficiency Enhancement through Dynamic Allocation of Switching Path in All-Optical Networks using GMPLS

Arshi Khan & Seema Ansari

214 - A Modified MAP in Performance Evaluation of Asynchronous Packet Traffic

Anupam Roy, Md. Jweel Hossain, Md. Imdadul Islam

265 - Impact of Optical Fiber Dispersion and Self Phase Modulation on the Performance of DS-OCDMA

Md. Jahedul Islam, Mostafezur Rahman Talukdar, and Md. Rafiqul Islam

308 - Migration to the Next Generation Passive Optical Network

Md. Shamim Ahsan, Man Seop Lee, S. H. Shah Newaz, Syed Md. Asif

311 - Raman Gain Spectrum Equalization by Using Polarization-diversity Loop Filter

Md. Azmal Hossain, Md. Fahad Chowdhury, and Feroz Ahmed

367 - A Probabilistic Position-based Routing Scheme for Delay-Tolerant Networks

Farzana Yasmeen, Shigeo Urushidani, Shigeki Yamada

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**Tea Break**

**Room: 1031 & 1032; Time: 11:00 to 11:15 hours**

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**Key Note Session 2**

Room: Multipurpose Hall; Time: 11:15 to 12:15 hours

Chair: Professor Dr. M Abdus Sobhan, Independent University, Bangladesh

Title: Bridging the Gap - Building and Monitoring Trustworthy Software

Presenter: Dr. Mohammad Zulkernine, Queens University, Canada

**Technical Session: Day 2-Parallel Session 2 (D2-A2)**

**Wireless Communication**

Room: 1011

Time: 12:15 to 13:30 hours

Chair: Dr. Md. Liakot Ali, Bangladesh University of Engineering & Technology

393 - Fair Slots Assignment Mechanisms of IEEE 802.11 Networks For Multiple Access Points

G. G. Md. Nawaz Ali, Rashma Shahin, Nushrika Mowna

521 - Performance Evaluation of Heterogeneous Network for Next Generation Mobile

Abu Sayed Chowdhury, Mark Gregory

523 - Performance Analysis of a MIMO-OFDM Wireless Link with STBC in the Presence of Fading and Timing Jitter

A. K. M. Nazrul Islam, S. P. Majumder

557 - A Compact Loop Type Antenna for Millimeter Band Applications

Kheya Banerjee, Abu Md. Numan-Al-Mobin and Khaled Mahbub Morshed

616 - Effectiveness of Selection and Maximal Ratio Combining Diversity Techniques on a DS-SS Wireless Communication System Impaired by Fading

Masuda Hossain, Md. Rubaiyat Hossain Mondal

**Technical Session: Day 2-Parallel Session 2 (D2-B2)  
Information System**

Room: 1012

Time: 12:15 to 13:30 hours

Chair: Dr. Zahidur Rahman, Jahangirnagar University

- 299 - Young consumers' M-banking Choice in Urban Bangladesh: Preliminary Indication  
Saifullah M Dewan, Ahsanullah M Dewan
- 383 - An Adoption-Diffusion Model for RFID Applications in Bangladesh  
M A Hossain and M Quaddus
- 650 - Geometric Model for Minimizing Node Discovery Load in Network Simulators for Large Ad hoc Network  
Roksana Akter, M. Lutfar Rahman
- 654 - A Social Relation Aware Semantic Access Control  
Mohammad M. R. Chowdhury, Josef Noll
- 667 - Automated Fundamental Analysis for Stock Ranking and Growth Prediction  
Ariful Islam, Hasib Zaman, Reaz Ahmed

**Technical Session: Day 2-Parallel Session 2 (D2-C2)  
Distributed and Parallel Processing**

Room: 1013

Time: 12:15 to 13:30 hours

Chair: Professor Dr. Abul L Haque, North South University

- 169 - A Crosstalk Free Routing Algorithm of Optical Multistage Interconnection Networks  
Arjuman Sultana, Md. Naimul Hasan
- 195 - Heuristic Algorithm of the Multiple-Choice Multidimensional Knapsack Problem (MMKP) for Cluster Computing  
Md. Iftakharul Islam, Md. Mostofa Akbar
- 260 - Examining Branch and Bound Strategy on Multiprocessor Task Scheduling  
M Mostafizur Rahman, Muhammad Foizul Islam Chowdhury
- 314 - Cleaning and Clustering of Sensor Data by K-Means Algorithm for Efficient Query Processing  
Md. Muhidul Islam Khan, A.S. M. Latiful Hoque
- 441 - Symmetric Tori Connected Torus Network  
Faiz Al Faisal and M.M. Hafizur Rahman

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**Lunch Break**

**Room: 1031 & 1032; Time: 13:30 to 14:15 hours**

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**Technical Session: Day 2-Parallel Session 3 (D2-A3)**

**Digital Logic**

Room: 1011

Time: 14:15 to 15:45 hours

Chair: Dr. Syed Mahfuzul Aziz, University of South Australia

- 368 - Design and Analysis of Online Testability of Reversible Sequential Circuits  
Moshaddek Hasan, A.K.M. Tauhidul Islam, Ahsan Raja Chowdhury
- 471 - Minimized Reversible Synthesis of Non-Reversible Quinary Logic Function  
Mozammel H. A. Khan, Raqibul Hasan
- 475 - Realization of Systolic Array Using Ternary Reversible Gates  
Naushin Nower and Ahsan Raja Chowdhury
- 610 - Development of a Novel Quaternary Algebra with the Design of Some Useful Logic Blocks  
Ifat Jahangir, Dihan Md. Nuruddin Hasan, Shajid Islam, Nahian Alam Siddique, Md. Mehedi Hasan
- 612 - Design of Quaternary Sequential Circuits Using a Newly Proposed Quaternary Algebra  
Ifat Jahangir, Dihan Md. Nuruddin Hasan, Nahian Alam Siddique, Shajid Islam, Md. Mehedi Hasan

**Technical Session: Day 2-Parallel Session 3 (D2-B3)**

**Signal Processing**

Room: 1012

Time: 14:15 to 15:45 hours

Chair: Professor Dr. M A Mottalib, Islamic University of Technology

- 217 - A New Image Compression Scheme Using Repeat Reduction and Arithmetic Coding  
Md. Rafiqul Islam, Abdullah-Al-Baki, Md. Shahidul Haque Palash
- 225 - Evaluation of Performances of Digital Adaptive Filters in Acoustic Echo Cancellation  
Md. Anamul Haque, A.K.M. Kamrul Islam, Md. Imdadul Islam
- 238 - A Modified 2-D Logarithmic Search Technique for Video Coding with Reduced Search Points  
Tahmina Akhtar, Rahima Akter, Chhalma Sultana Chhaya, Ashfaqur Rahman
- 587 - Diphone Preparation for Bangla Text to Speech Synthesis  
Muhammad Masud Rashid, Md. Akter Hussain, M. Shahidur Rahman

**Technical Session: Day 2-Parallel Session 3 (D2-C3)**

**Knowledge & Data Engineering**

Room: 1013

Time: 14:15 to 15:45 hours

Chair: Professor Dr. Mohammed Quaddus, Curtin University of Technology

- 003 - A Domain Independent Similar-Duplicate Detection Algorithm for Data Cleaning  
Kazi Shah Nawaz Ripon, Ashiqur Rahman, Shahariar Monjur
- 289 - An Approach to Improve Collusion Set Detection Using MCL Algorithm  
Md. Nazrul Islam, S. M. Rafizul Haque, Kazi Masudul Alam, Md. Tarikuzzaman
- 315 - Data Exchange: Algorithm for Computing Maybe Answers  
S. M. Masud Karim
- 434 - Optimized Entity Attribute Value Model: A Search Efficient Representation of High Dimensional and Sparse Data  
Razan Paul, Abu Sayed Md. Latiful Hoque

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**Tea Break**

**Room: 1031 & 1032; Time: 15:45 to 16:00 hours**

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**Technical Session: Day 2-Parallel Session 4 (D2-A4)**  
**Pattern Recognition**

Room: 1011

Time: 16:00 to 17:15 hours

Chair: Professor Dr. Mozammel Huq Azad Khan, East West University

- 252 - Improvement of Speech Enhancement Techniques for Robust Speaker Identification in Noise  
Md. Rabiul Islam, Md. Fayzur Rahman, Muhammad Abdul Goffar Khan
- 344 - Speaker Identification System Using PCA & EIGENFACE  
Md. Rashedul Islam, Md. Shafiul Azam, Saleh Ahmed
- 494 - Variable Rate Steganography in Gray Scale Digital Images Using Neighborhood Pixel Information  
Moazzam Hossain, Sadia Al Haque, Farhana Sharmin
- 495 - Extracting Unique Patterns of Human Actions  
H. M. Imran Hassan, Md. Fahad Hasan, Md. Fazle Elahi Khan, Md. Shahjahan
- 575 - An Audible Bangla Text-Entry Method in Mobile Phones with Intelligent Keypad  
Md. Enamul Hoque Prince, Gahangir Hossain, Dr. Ali Akbar Dewan, Pijush Debnath

**Technical Session: Day 2-Parallel Session 4 (D2-B4)**  
**Artificial Intelligence, Robotics & Others**

Room: 1012

Time: 16:00 to 17:15 hours

Chair: Professor Dr. Chowdhury Mofizur Rahman, United International University

- 132 - Phoneme Recognition based on Distinctive Phonetic Features (DPFs) Incorporating a Syllable Based Language Model  
Mohammad Nurul Huda, Manoj Banik, Ghulam Muhammad, Bernd J. Kroger
- 372 - Computational Intelligence Approach to Load Forecasting - A Practical Application for The Desert of Saudi Arabia  
Suman Ahmed, Dewan Md. Fayzur Rahman, Md. Khairul Hasan, Ahmed Yousuf Saber, and Mohammad Zahidur Rahman
- 373 - Control of the Speed of a DC Motor by Employing Pulse Width Modulation (PWM) Technique  
Mohammad Tafiqur Rahman, Fahad Faisal, Munawwar Mahmud Sohul, Farruk Ahmed
- 448 - Predictive Power of the Daily Bangladeshi Exchange Rate Series Based on Markov Model, Neuro Fuzzy Model and Conditional Heteroskedastic Model  
Shipra Banik, Mohammed Anwer and A.F.M. Khodadad Khan
- 686 - Design and Development of a Wall Climbing Robot and Its Control System  
Md. Akhtaruzzaman, Nurul Izzati Bt Samsuddin, Norsofiana Bt Umar, Dr. Mozasser Rahman

**Technical Session: Day 2-Parallel Session 4 (D2-C4)**  
**Web Applications & Wireless Communication**

Room: 1013

Time: 16:00 to 17:15 hours

Chair: Dr. A.S.M. Latiful Hoque, Bangladesh University of Engineering & Technology

- 189 - An Empirical Assessment of Customer Satisfaction with Internet Banking Applications: An Australian Experience  
Md Mahbubur Rahim and JieYing Li
- 416 - Adaptive Array Antenna System in Cancellation of Jammer and Noise of Wireless Link  
Md. Imdadul Islam, Md. Golam Gaus, Avijeet Das, Mushlah Uddin Sarkar, and M. R. Amin
- 520 - Logical Clock based Last Update Consistency Model for Distributed Shared Memory  
Rubaiyat Islam Rafat, Kazi Muheymin Sakib
- 566 - Can Information Retrieval Techniques Meet Automatic Assessment Challenges?  
Md Maruf Hasan
- 689 - Development of a Translation Model from HTML to WML Using Component Based Information Extraction Technique  
Md. Ashik Ali Khan, Dr. Md. Liakot Ali

**Technical Session: Day 3-Parallel Session 1 (D3-A1)**

**Neuro-Fuzzy Systems**

Room: 1011

Time: 09:30 to 11:00 hours

Chair: Professor Dr. M M A Hashem, Khulna University of Engineering & Technology

- 075 - A Supervised Spiking Neural Network for Generating Multiple Spikes  
Kazi Shah Nawaz Ripon, Farjana Tanha, Farhana Haque
- 302 - Neural Network Ensembles based on Artificial Training Examples  
M. A. H. Akhand, Pintu Chandra Shill, K. Murase
- 394 - Three Algorithms for Learning Artificial Neural Network: A Comparison for Induction Motor Flux Estimation  
Md. Abdur Rafiq, Naruttam Kumar Roy, B. C. Ghosh
- 404 - Performance Analysis of a Novel Fuzzy Logic and MTPA Based Speed Control for IPMSM Drive with variable d- and q-axis Inductances  
Md. Selim Hossain and Md. Jahangir Hossain
- 497 - A Currency Recognition System Using Negatively Correlated Neural Network Ensemble  
Kalyan kumar debnath, Jayanta kumar ahdikary, Md. Shahjahan
- 595 - Personnel Selection Method Using Analytic Network Process (ANP) and Fuzzy Concept  
Mohammed Ayub, Md. Jonaed Kabir, Md. Golam Rabiul Alam

**Technical Session: Day 3-Parallel Session 1 (D3-B1)**

**Bangla Language Processing**

Room: 1012

Time: 09:30 to 11:00 hours

Chair: Professor Dr. Muhammad Masroor Ali, Bangladesh University of Engineering & Technology

- 235 - Automatic Speech Recognition for Bangla Digits  
Ghulam Muhammad, Yousef A. Alotaibi, and Mohammad Nurul Huda
- 270 - OSDT: Outer Shape Detection Technique for Recognition of Bangla Optical Character  
Md. Al Imran, Jobed Hossain, Tanay Dey, Bijan Kumar Debroy, Ahsan Habib Abir
- 316 - Bangla Hand Written Digit Recognition Using Supervised Locally Linear Embedding Algorithm and Support Vector Machine.  
Saleh Ahmed, Md. Rashedul Islam, Md. Shafiul Azam
- 422 - Bangla Keyboard Layout Design Using Association Among Bangla Characters  
Krishna Chnadra Bhadra, Chowdhury Mofizur Rahman
- 524 - An Efficient Speech Generation Method Based on Character and Modifier of Bangla PDF Document  
Md. Rafiqul Islam, Md. Mustaneer Rahman, Toukir Ahmed
- 578 - A New Word Separation Algorithm for Continuous Bangla Speech Recognition  
Nipa Chowdhury, Md. Abdus Sattar

**Technical Session: Day 3-Parallel Session 1 (D3-C1)**  
**Pattern Recognition**

Room: 1013

Time: 09:30 to 11:00 hours

Chair: Professor Dr. Farruk Ahmed

Former Professor, University of Dhaka & North South University, Bangladesh

433 - Constructing SURF Visual-Words for Pornographic Images Detection

Yizhi Liu, Hongtao Xie

545 - Palmprint Based Verification System Robust to Rotation, Scale and Occlusion

Badrinath G S and Phalguni Gupta

626 - Computer Vision-based Bangladeshi Sign Language Recognition System

Salma Begum, Md. Hasanuzzaman

640 - Iris Recognition: A New Approach for Iris Segmentation

Md. Selim Al Mamun, Md. Hasanuzzaman

657 - Multicore Cluster Implementations of Hierarchical Bayesian Cortical Models

Pavan Yalamanchili, Tarek M. Taha

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**Tea Break**

**Room: 1031 & 1032; Time: 11:00 to 11:15 hours**

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**Key Note Session 3**

Room: Multipurpose Hall; Time: 11:15 to 12:00 hours

Chair: Professor Dr. Mozaffar Hossain, Vice Chancellor, Pabna University of Science & Technology, Bangladesh

Title: Pattern Recognition and Tracking in Visual, Infrared, and Hyperspectral Imagery

Presenter: professor Dr. Mohammad S. Alam, University of South Alabama, USA

**Technical Session: Day 3-Parallel Session 2 (D3-A2)**

**Wireless Communication**

Room: 1011

Time: 12:00 to 13:30 hours

Chair: Dr. Fakhru Alam, Massey University, Newzeland

463 - Performance study and simulation analysis of CSMA and IEEE 802.11 in Wireless Sensor Networks and limitations of IEEE 802.11

Shaiful Alam Chowdhury, Mohamamd Tauhidul Islam, Fariha Tasmin Jaigirdar, Md. Rokan Uddin Faruqui, Shahid Al Noor

481 - An Efficient Protocol for Ensuring 24x7 Availability in P2P Networks

Farhadur Rahman, Habibur Rahman, Reaz Ahmed

501 - An Intelligent SMS-Based Remote Water Metering System

Nusrat Sharmin Islam and Md. Wasi-ur-Rahman

514 - A Logical Formal Model for Verification of Web Service Choreography

Zahra Madani, Naser Nematbakhsh

515 - Performance Analysis of Datagram Congestion Control Protocol (DCCP)

Iffat Sharmin Chowdhury, Jutheka Lahiry, Dr. Syed Faisal Hasan

518 - Performance Evaluation of Time Dependent Micro Macro Cellular Network Using MMPP Traffic

Mushlah Uddin Sarkar, Md. Imdadul Islam, and M. R. Amin

**Technical Session: Day 3-Parallel Session 2 (D3-B2)**  
**Signal Processing and Others**

Room: 1012

Time: 12:00 to 13:30 hours

Chair: Professor Dr. Chowdhury Mofizur Rahman, United International University

- 365 - Design and Analysis of Smart Antenna System for DECT Radio Base Station in Wireless Local Loop  
Muhammad Mahfuzul Alam, Md. Majharul Islam Rajib, and Sumon Kumar Biswas
- 585 - Moving Object Tracking - A parametric Edge Tracking Approach  
Mahbub Murshed, M. Ali Akber Dewan, and Oksam Chae
- 594 - Textual Labeling of Segmented Structures in 2D CT Slice Views  
Muhammad Masud Tarek
- 677 - Novel Objective Criteria For Perceptual Separation of Two Kinds of Distortion in Speech Enhancement Applications  
Md. Jahangir Alam, Douglas O'Shaughnessy, Sid-Ahmed Selouani

**Technical Session: Day 3-Parallel Session 2 (D3-C2)**  
**Software Engineering**

Room: 1013

Time: 12:00 to 13:30 hours

Chair: Professor Dr. M Abdus Sobhan, Independent University, Bangladesh

- 272 - Adaptation of ATAM<sup>SM</sup> to Software Architectural Design Practices for Organically Growing Small Software Companies  
S. M. Saiful Islam, M. Rokonuzzaman
- 447 - A Recommended Market Research Based Approach for Small Software Companies for Improving Systematic Reuse Capability in Delivering Customized Software Solutions  
Kiriti Prasad Choudhury, M. Rokonuzzaman
- 482 - Using an Old Technique in a New Technology — a Novel method for defining the Scope of ISs in BPM Projects  
Morteza Alaeddini, Ahmad A. Kardan
- 508 - Process Centric Work Breakdown Structure for Easing Software Project Management Challenges: Business Case Analysis Example  
S. M. Saiful Islam, M. Rokonuzzaman
- 533 - Offshore outsourced software development risk management model  
Shareeful Islam, Siv Hilde Houmb, Daniel Mendez-Fernandez and Md. Mahbubul Alam Joarder
- 548 - Process Centric Work Breakdown Structure of Software Coding for Improving Accuracy of Estimation, Resource Loading and Progress Monitoring of Code Development  
A.K.M Zahidul Quaium, Ahmed Latif Shahriar, M. Rokonuzzaman

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**Lunch Break**  
**Room: 1031 & 1032; Time: 13:30 to 14:15 hours**

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**Technical Session: Day 3-Parallel Session 3 (D3-A3)**  
**Wireless Communication**

Room: 1011

Time: 14:15 to 15:45 hours

Chair: Dr. K.M. Azaharul Hasan, Khulna University of Engineering & Technology

- 174 - Novel Adaptive Step Power Control Algorithm for 3G WCDMA Cellular System  
Abdullah Al Mamun, Saiful Islam, Farzana Yesmin, Masuma Akter, Shaikh Afsana Jahan
- 198 - Microstrip Antenna Array with Four Port Butler Matrix for Switched Beam Base Station Application  
Muhammad Mahfuzul Alam
- 222 - Design of Meandering Probe Fed Microstrip Patch Antenna for Wireless Communication System  
Mohammad Tariqul Islam, Mohammed Nazmus Shakib, Norbahiah Misran
- 248 - STP: In-network Aggregation through Proximity Queries in a Sensor Network  
Md. Rakibul Haque, Mahmuda Naznin, Md. Asaduzzaman, Rakib Uddin Ahmed
- 254 - Adaptive Energy Detection for Cognitive Radio: An Experimental Study  
James Y. Xu, Fakhru Alam
- 541 - A QoS Aware Route Selection Mechanism Using Analytic Hierarchy Process for Mobile Ad Hoc Network  
Abu Hamed Mohammad Misbah Uddin, Mohammad Iftekhar Monir, Shahid Md. Asif Iqbal

**Technical Session: Day 3-Parallel Session 3 (D3-B3)**  
**E-Commerce & Web Application**

Room: 1012

Time: 14:15 to 15:45 hours

Chair: Dr. Md. Mahbubur Rahim, Monash University, Australia

- 278 - Potential Consequences of E-Commerce Application  
Tarun Kanti Bose, Abdullah Al Nahid
- 322 - Improved Needham-Schroeder Protocol for Secured and Efficient Key Distributions  
Shamima Sultana, Md. Ismail Jabiullah and Md. Lutfar Rahman
- 419 - Analysis and Design of Individual Tax Return Systems in Bangladesh  
M.A. Hossain, A.A. Khan, S. Majumdar, R. Ahmed
- 608 - Proposed Domain Name System (DNS) for Improved E-Government Services of Bangladesh  
Md. Monirul Islam
- 627 - Challenges in Building Trust in B2C E-Commerce and Proposal to Mitigate Them: Developing Countries Perspective  
Subrata Kumar Dey, Mohammad Noor Nabi, Mohammed Anwer

**Technical Session: Day 3-Parallel Session 3 (D3-C3)**  
**Bioinformatics and Others**

Room: 1013

Time: 14:15 to 15:45 hours

Chair: Professor Dr. S K Ahmed Kamal, Rajshahi University, Bangladesh

- 109 - Biometric Authentication from Low Resolution Hand Images Using Radon Transform  
Ahmed Mostayed, Md. Ekramul Kabir, Saurav Zaman Khan, Md. Mynuddin Gani Mazumder
- 304 - Application of Greedy Sequential Grammar Transform on Dynamic Markov Compression: A Way to Produce More Amenable Compression  
Sajib Kumar Saha, Ratna Saha, Beroza Paul, Md. Masudur Rahaman
- 377 - Transmembrane Helix Prediction using Feed-forward Neural Network  
M. A. Mottalib, Md. Safiur Rahman Mahdi, A.B.M. Zunaid Haque, S.M. Al Mamun, Hawlader Abdullah Al-Mamun
- 430 - Detection of various Denial of Service and Distributed Denial of Service Attacks using RNN Ensemble  
A. B. M. Alim Al Islam, Tishna Sabrina
- 679 - Bayesian Networks Application for Representation and Structure Learning of Gene Regulatory Networks  
Blagoj Ristevski, Suzana Loskovska

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## Tea Break

Room: 1031 & 1032; Time: 15:45 to 16:00 hours

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### Technical Session: Day 3-Parallel Session 4 (D3-A4)

#### E-Commerce & Cryptography

Room: 1011

Time: 16:00 to 17:15 hours

Chair: Professor Dr. M Lutfar Rahman, University of Dhaka

052 - Steps to Defend Against DoS Attacks

Ahsan Habib, Debashish Roy

240 - Implementation of E-Commerce in Developing Countries: Bangladesh Perspective

S. A. Ahsan Rajon, Abdullah-Al-Nahid, Abu Shamim Mohammad Arif

337 - Secure E-cash Model Using Java based Smartcard

Kaafi Mahmud Sarker, Israt Jahan, Mohammad Zahidur Rahman

354 - Present Status and Critical Success Factors of E-Commerce in Bangladesh

Md. Raihan Jamil, Nafis Ahmad

684 - Extraction of Interesting Rules from Internet Search Histories

Md. Asaduzzaman, Md. Shahjahan

### Technical Session: Day 3-Parallel Session 4 (D3-B4)

#### Database & Data Mining

Room: 1012

Time: 16:00 to 17:15 hours

Chair: Professor Dr. Md. Shahid Uz Zaman, Rajshahi University of Engineering & Technology

221 - A Practical Approach of Designing Synchronous Replicated Heterogeneous Distributed Database System

Mohammad Shahinur Islam, Md. Fokhray Hossain, Mohammad Zahidur Rahman

247 - FM-Chord: Fault-tolerant Chord Supporting Misspelled Queries

Md. Rakibul Haque, Reaz Ahmed

350 - Integrated Data Warehousing for Telecommunication Industries

Md. Mosharaf Hossain, Tawseef Azim, Md. Yasser Karim, A. S. M. Latiful Hoque

400 - Content Clustering of Computer Mediated Courseware Using Data Mining Technique

Golam Md. Muradul Bashir, A. S. M. Latiful Hoque

460 - An Extendible Data Structure for Handling Large Multidimensional Data Sets

K. M. Azharul Hasan, Kamrul Islam, Mojahidul Islam, Tatsuo Tsuji

**Technical Session: Day 3-Parallel Session 4 (D3-C4)**  
**Wireless Communication**

Room: 1013

Time: 16:00 to 17:15 hours

Chair: Professor Dr. M A Mottalib, Islamic University of Technology, Bangladesh

338 - Performance Evaluation of MIMO System Incorporating Water Filling Model and Minimum Eigenvalue Constraints

Nur Afroza Khurshid, Md. Imdadul Islam, and M. R. Amin

341 - WiMAX Security Analysis and Enhancement

Muhammad Sakibur Rahman, Mir Md. Saki Kowsar

415 - Performance Evaluation of a Mobile Cellular Network with two Hop Ad Hoc Relaying

Nusrat Sultana, M. A. Jobayer Bin Bakkre, Md. Imdadul Islam, and M. R. Amin

639 - Numerical Analysis of Impedance Matched Inverted-L Antennas for Wi-Fi Operations

Khaled Mahbub Morshed, Debabrata Kumar Karmokar, Abu Md. Numan-Al-Mobin

645 - Performance Evaluation of Fast TCP and TCP Westwood+ for Multimedia Streaming in Wireless Environment

Sifatur Rahim, Syed Faisal Hasan

**Day 3: 23 December 2009**

**19:00 hours: Conference Dinner**

**Venue: EmmaNuelle's Restaurant, 3/7 Kemal Ataturk Avenue, Gulshan-2, Dhaka**

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## Venue Details

**Registration & Kit Distribution:** Ground Floor

**Inaugural Ceremony:** Multipurpose Hall (ground floor)

**Keynote Sessions:** Multipurpose Hall (ground floor)

**Technical Sessions:** Room # 1011, 1012 & 1013 (first floor)

**Office of the Organizing Chair:** Room # 1023 (first floor)

**Prayer Room:** Room # 1030 (first floor)

**Media & Internet Corner:** Room # 1014 (first floor)

**Refreshments:** Room # 1031 & 1032 (first floor)