Program

International Workshop on Frontiers of Information Technology

FIT’2006 Secretariat
COMSATS Institute of Information Technology
University Road Abbottabad, NWFP, Pakistan.
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http://www.cs.fredonia.edu/fit06
http://www.ciit-atd.edu.pk/fit06
fit06@ciit.net.pk
Day—1

Wednesday 20\textsuperscript{th} December 2006

\textbf{(Opening Session)}

\begin{tabular}{ll}
\textit{0830 – 0900} & Welcome Desk/ Registration \\
\textit{0930 – 1030} & Opening Session (Room: Crystal Ball Room) \\
 & Recitation from Holy Quran \\
\textit{1030—1100} & Tea/ Coffee Break/Registration (Room: Crystal Ball Room) \\
\end{tabular}
Day—1 Session—1  
Plenary Session

1100 – 1300  
(Room: Ambassador I-II-III)

Session Chair: **Naveed Malik**  
Rector, Virtual University of Pakistan

- **Invited Talk:– 1:** Mubarak Shah, Agere Chair Professor, University of Central Florida, USA  
  “Spatiotemporal Regularity Flow (SPREF): its estimation and applications”
- **Invited Talk: – 2:** Vivek Nigam IKOA , Silicon Valley, California, USA  
  “Spatial filtering for improved voice communication”
- **Invited Talk: – 3:** Ashfaq Khokhar, University of Illinois at Chicago, USA  
- **Invited Talk:– 4:** Muhammad Ilyas, Associate Dean/Professor, Florida Atlantic University, USA

1300-1400  
Lunch and Prayer Break (CBR)

Day—1 Session—2  
Communication and Networks -I

1400 – 1600  
(Room: Ambassador 1)

Session Chair: **Mubarak Shah**  
Agere Chair Professor, University of Central Florida, USA

- **Invited Talk: – 5:** Mudassar Wyne, University of Michigan – Flint, USA  
  “Bioinformatics: A New Vision for Academics”
- **Paper D1.S2.1:** Enhancements in PPP MP for UMTS-All IP Architecture to Improve the QoS  
  Tahir Ali  
  College of Computer Science  
  Karachi Institute of Economics and Technology,  
  Multinet Pakistan (Pvt.) Ltd.  
  Azhar Hussain Khwaja  
  ZTE Telecom (Pvt.) Ltd.  
  Syed Irfan Hyder  
  College of Computer Science and College of Engineering  
  Karachi Institute of Economics and Technology

- **Paper D1.S2.2:** Previous Hops in Duplicate Route Requests to Improve AODV Performance  
  Khawar Mahmood, S. A. Hussain  
  Information Technology Centre, CS Department  
  COMSATS Institute of Information Technology Lahore, Pakistan  
  E. Garcia  
  ECIT, Queen’s University, Belfast UK

- **Paper D1.S2.3:** A Performance Analysis of Gateway-to-Gateway and End-to-Gateway L2TP VPN  
  Rukhsana Rahim Butt  
  Department of Computer Science  
  COMSATS Institute of Information Technology, Lahore, Pakistan.
• **Paper D2.S2.4:** A Performance Analysis Of Fixed And Dynamic Channel Allocation Schemes In Cellular Networks

Muhammad Emran, Syed Asad Hussain, Saqib Hussain
Department of Computer Science
COMSATS Institute of Information Technology, Lahore, Pakistan

**Day—1 Session—3**
**IT Applications-I**
1400 – 1600
(Room: Ambassador II)

**Session Chair:** Kahlid Rasheed
Dean, Faculty of Applied Science, International Islamic University, Islamabad

• **Invited Talk:** - 6: Yousif Abdultif Al-Bastiki, University of Bahrain
"E- Strategy: The case of Kingdom of Bahrain"

• **Paper D1.S3.5:** Can E-Commerce and Use of ICT’s Help Rural Women of Balochistan to Fight Poverty?
Jan Muhammad, Sadique Ahmed Bugti
Faculty of Computer & Emerging Sciences
Balochistan University of Information Technology & Management Sciences, Quetta-Pakistan
Khalid Qazi Mengal
Department of Communication and Information Technology
University of Bremen, Bremen, German

• **Paper D1.S3.6:** Co occurrence and morphological analysis for colon tissue classification
Khalid Masood, Nasir Rajpoot, Hammad Qureshi
Department of Computer Science
University of Warwick, Coventry, CV4 7AL, UK.
Kashif Rajpoot
Wolfson Medical, University of Oxford, UK.

• **Paper D1.S3.7:** Semantic Information Retrieval from Distributed Heterogeneous Data Sources
Kamran Muntir, M. Odeh, R. McClatchey
CCS Research Centre, University of the West of England, Frenchay, Bristol, UK
S. Khan, A. Ali, I. Habib
National University of Sciences and Technology, Pakistan

• **Paper D1.S3.8:** Reduction in Over-Fitting for Classification without Compromising on Accuracy and Effectiveness
Abdul Aziz Gill
Department of Computer Sciences
Riphah International University, Islamabad, Pakistan
Nazir A. Zafar
Department of Computer & Information Sciences
Pakistan Institute of Engineering & Applied Sciences, Nilore, Islamabad, Pakistan

**Day—1 Session—4**
**Data- Management**
1400 – 1600
(Room: Ambassador III)

**Session Chair:** Azzamul Asar
Professor, Electrical Engineering Department, NWFP UET, Peshawar

• **Invited Talk:** – 7: Naomie Saleem
“Similarity and Cluster Analysis of Chemical Structures”

• **Invited Talk:** – 8: Nasim Raza Askari College for Entrepreneurs, Rawalpindi
“Information Technology Integration in corporate performance-role”
• **Paper D1.S4.9**: A Comparative study on Standardization of Software Cost Estimation Process in Pakistan, using appropriate COCOMO estimation models and Drivers

  Syeda Umema Hani  
  PhD Student, Hamdard University, Graduate School of Engineering Science and Information Technology  
  City Campus-II  
  Sir Syed University of Engineering & Technology  
  G. Q. Memon  
  Hamdard University, Graduate School of Engineering Science and Information Technology

• **Paper D1.S4.10**: Assessment Of Transition From ‘Quality In A Project Environment’- Component Of Prince 2 To ‘Process & Product Quality Assurance’- Process Area Of CMMI 1.1

  Ahmad Luqman,  
  Software Program Manager, NADRA


  Mehreen Ali, Hina Naz Khan, Shumaila Suyyab, Nadeem Iftikhar  
  Department of Bio-Science  
  Mohammad Ali Jinnah University, Islamabad-Pakistan

1600-1630  
Tea/ Coffee and Prayer Break (Ambassador-I/II/III)

Day—1 Session—5  
Distributed and Collaborative Computing—I

1630 – 1800  
(Room: Ambassador I)

  **Session Chair:** Arshad Ali  
  Director General, NUST Institute of Information Technology (NIIT), Rawalpindi

• Invited Talk: - 9: Shakil Akhtar, University of UAE UAE

  "Emerging IT applications for the New Millennium"

• **Paper D1.S5.12**: Web Services Composition to Facilitate Grid and Distributed Computing: Current Approaches and Future Framework

  Muhammad Ahtisham Aslam, Sören Auer  
  Betriebliche Informationsysteme, Universität Leipzig, Germany  
  Jun Shen  
  Faculty of Informatics, University of Wollongong, Australia  
  Michael Herrmann  
  DaimlerChrysler AG, Sindelfingen Germany

• **Paper D1.S5.13**: Using context-aware computing to support engineering collaboration

  Zeeshan Aziz, Chimay Anumba  
  Center for Innovative and Collaborative Engineering, Loughborough University, Loughborough LE11 3TU, UK

• **Paper D1.S5.14**: Scenario Based Interaction Model for Mobile Agent Based System

  Sadia Ashraf, Naveed Ejaz, Adnan A Farooqui, Kashif Zareef, Sajid Minhas  
  Department of Computer Science  
  Military College of Signals Rawalpindi – 46000  
  (National University of Sciences and Technology - PAKISTAN)

Day—1 Session—6  
IT Applications-II
1630 – 1800  

**, Session Chair: Ashfaq Khokhar**
*University of Illinois at Chicago, USA*

- **Invited Talk: - 10:** Mohammad Yazid Idris, University of Technology Malaysia  
  “QoS Anomaly Detection based on Self-Similar Network Traffic”  

- **Invited Talk: - 11:** Abdul Hanan Abdullah, University of Technology Malaysia  
  “Anomaly detection and response: current and future directions”  

- **Paper D2.S6.15:** Enabling Technologies for AgriKiosk Project in reaching out Remote Area Farmers  
  M. Afzal  
  University Institute of Information Technology  
  University of Arid Agriculture Rawalpindi, Pakistan  
  J. Zubairi  
  Department of Computer Science,  
  State University of New York at Fredonia, Fredonia NY 14063, USA  
  A. Akram  
  National university of Sciences and Technology, (NUST), Pakistan  
  S. Kausar  
  FAST, Pakistan  

- **Paper D2.S6.16:** Knowledge Management in Telemedicine.  
  Jayanth G Paraki  
  Medical Director, Telemedicine Research Laboratory and Clinic for Holistic Healing, India  

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**Day–1 Session—7  COMPUTING EVERYWHERE - I**  
1630 – 1800  

**, Session Chair: Younis Javid**
*College of EME, RawalPindi*

- **Invited Talk: - 12:** Salar Naqvi, Department Informatique et Réseaux (INFRES), France  
  “Emerging Research Dimensions in IT Security”  

- **Invited Talk: - 13:** Muid Mufti UET Texila.  
  “Wi-Max: Opportunities and Challenges”  

- **Invited Talk: - 14:** Tariq Jadoon, LUMS, Pakistan  
  "On the Energy Efficient Design of Wireless Sensor Networks"
Day—2

**Day—2 Session-I**
**Tutorial -I**
0900 – 1030
(Room: Ambassador I)

*Grid Architecture Developments*
*Shakil Akhtar, Aslam Pervaiz Memon*
*University of UAE, UAE*

**Day—2 Session-2**
**Tutorial -II**
0900 – 1030
(Room: Ambassador II)

*Eigen value Analysis Pattern Recognition*
*M. Asmatullah Khan*
*Head of Electrical Engineering Department,*
*COMSATS Institute of Information Technology, Abbottabad, Pakistan*

**Day—2 Session-3**
**Tutorial -III**
0900 – 1030
(Room: Ambassador III)

*New Trends in Optoelectronics*
*Saleem Farooq Shaukat*
*Electrical Engineering Department,*
*COMSATS Institute of Information Technology Abbottabad, Pakistan*

**1030-1100**
**Tea/ Coffee and Prayer Break** (Room: Ambassador I-II-III)

**Day—2 Session—4**
**COMMUNICATIONS AND NETWORKING – II**
1100 – 1300
(Room: Ambassador I)

Session Chair: **Amanullah Khan**
*Dean Faculty of Information Sciences and Technology*
*COMSATS IIT*

- **Invited Talk:- 15 :** Mahboob Yasin  COMSATS IIT Islamabad

  “Security issues in Ad-Hoc networks”

**Paper D2.S4.17:** “Birthday attack on Efficient and Anonymous Buyer Seller Watermarking Protocol”

Qurat ul Ain , Mahboob Yasin
*Department of Computer Science*
*COMSATS IIT Islamabad*
• **Paper D2.S4.18**: An Alternate Approach for Route Discovery and Reservation in Dynamic Source Routing Protocol

  Faheem-ur-Rehman  
  Department of Computer Science  
  SZABIST, Islamabad, Pakistan  
  Mansoor Alam Ansari  
  Department of Computer Science  
  Urdu Federal University, Islamabad, Pakistan

• **Paper D2.S4.19**: Motivating Corporation in Mobile Ad Hoc Networks: A Step Forward

  *Attiqa Rehman, *Syed Sajid Hussain, **Sajjad Mohsin  
  *Department of Computer Science  
  **Department of Electrical Engineering  
  COMSATS Institute of Information Technology, Abbottabad, NWFP-Pakistan

• **Paper D2.S4.20**: An Experimental Setup for Wireless Channel Modeling and Prediction

  Yasir Ahmed, Tariq Bashir  
  COMSATS Institute of Information Technology, Islamabad Pakistan

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**Day—2 Session—5**

**IT Applications—III**

1100 – 1300  
(Room: Ambassador II)

**Session Chair:** Q. K Ghori  
Advisor COMSATS IIT, Islamabad

• **Invited Talk**: - 16: Mr. Salim Ghauri, Chairman Netsol Technologies Limited Pakistan  
  “ICT in the Developing Countries”

• **Invited Talk**: - 17: Syed Misbahuddin, University of Hail, Saudi Arabia  
  “Improving VoIP transfer Rate over Internet”

• **Invited Talk**: - 18: Fawaz A. Masoud, University of Jordan  
  “General e-Learning Concepts”

• **Paper D2.S5.21**: Neural Network-Based Shape Retrieval using Moment Invariants Moments

  Xiaoliu Chen and Imran Shafiq Ahmad  
  School of Computer Science  
  University of Windsor, Windsor, ON N9B 3P4 - Canada

• **Paper D2.S5.22**: PLE-RUP: A Novel Way to Developing Product Line Engineering

  Nafees Qamar, Romana Aziz  
  COMSATS Institute of Information Technology, Islamabad, Pakistan.

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**Day—2 Session—6**

**Computing Everywhere - II**

1100 – 1300  
(Room: Ambassador III)

**Session Chair:** Muhammad Azim  
Director CIIT, Attock

• **Invited Talk**: - 19: Romana Aziz COMSATS I.I.T, Islamabad  
  “Iterative Development; Learning using Bayesian Networks”
• **Invited Talk: - 20:** Umar Saif, LUMS, Pakistan

  “Bridging the Digital Divide: Technology for the Other Four Billion”

• **Paper D2.S6.23:** Context Fusion in Location-Aware Pervasive Applications
  Muhammad Akhlaq
  Blekinge Institute of Technology, Ronneby, Sweden

• **Paper D2.S6.24:** Influence of Planning and Requirement Gathering on Risk Mitigation: An empirical Study in IT Industry
  Khizran Athar, Mahnaz Mir, Muhammad Sulayman, Prof. Dr. Khalid Rashid
  Department of Computer Science, Faculty of Applied Sciences, International Islamic University, Islamabad.
  Hafiz Farooq Ahmad
  Communication Technologies
  Omachi Aoba-ku Sendai, Japan

• **Paper D2.S6.25:** Quality Of Service In Web Servers Using Sequential Real-Time Closed Loop Approach
  M.Aramudhan, V.Rhymend Uthaiaraj
  Department of Information Technology
  MIT, Anna University, Chennai-25, India

1300-1400 Lunch and Prayer Break (CBR)

**DAY—2 SESSION—7 PANEL DISCUSSION**

1400 -1600 “ENCHASING THE E-READINESS OF PAKISTAN SOCIETY”

(Crystal Ball Room)

**Moderator:** Romana Aziz
COMSATS IIT, Islamabad

**Panelist:** Ashfaq Khokhar
University of Illinois at Chicago, USA

Muhammad Ilyas
Florida Atlantic University, USA

Tanveer ul Haq
Chief Technical Office, Paktel

Salman Ansari
Consultant

Shariq Khawaja
Agha Khan Medical College, Karachi
Thursday 21st December 2006

(Closing Session)
(Crystal Ball Room)

(1600-1700)

1600 – 1700  Recitation from Holy Quran

1700-1715  Refreshments (Crystal Ball Room)