

Program Book

ICAICT 2016

1st International Conference on

Advanced Information and Communication Technology

May 16-17, 2016

Chittagong Independent University (CIU)

Chittagong, Bangladesh

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WELCOME MESSAGES

MESSAGE FROM GENERAL CHAIR

Distinguished Participants, Guests and Conference Attendees,

Allow me to extend my most sincere welcome to all attendees of this year's 1st International Conference on Advanced Information and Communication Technology hosted at Chittagong Independent University (CIU), Chittagong, Bangladesh. This conference scheduled from May 16 to 17 May 2016 is a platform to share the contemporary research trends and experiences in regional common issues as well as to expose research work of different interested groups and others. As this is the first initiative by the organizers, this conference has included a diversity of topics presented by authors from many different south East Asian institutions. This brings together a plurality of interests and perspectives into a single location. I hope you take advantage of this opportunity and contribute, through presentations, discussions and interaction, to the development of new ideas and new directions in research and applied technology. I hope you find the conference, including the Keynote & Invited speakers, the Technical sessions and other program events educational and interesting. My thanks go out to the keynote and invited speakers, the paper reviewers, and also to the organizing committee who have helped to make this conference a success. I would like to extend special thanks to the ICRCB, CIU, UTM, CU, COL and W3 Engineers Ltd., and all Member Institutes who have taken time out of their busy schedules to help organize this conference.



Particular thanks should go to the Hon'ble Vice Chancellor of the University of Chittagong, Dr. Iftekhar Uddin Chowdhury for the timely decision to involve Chittagong University as a Partner organizer of the Conference. As we all know Chittagong University has been and continues to be the leading University in this region for many decades. This will go down as a pioneering initiative in Public-private cooperation between Universities in this region.

I wish everybody very fruitful discussions and exchanges during the entirety of the Conference.

Professor Irshad Kamal Khan

Pro Vice Chancellor, CIU, Bangladesh

(Post Doctoral Fellow, United Nations University - International Institute for Software Technologies: UNU-IIST, Macau SAR, PR China)

MESSAGE FROM GENERAL CO-CHAIR

I am privileged and honor to extend to you a warm invitation to attend 1st International Conference on Advanced Information and Communication Technology 2016 (ICAICT 2016) to be held May 16-17 2016, at the Chittagong Independent University, Chittagong, Bangladesh to fulfill the goal to strengthen the Network and Information & Communication Engineering Education.



ICAICT 2016 represents one of the largest gatherings of researchers and industry professionals in the field of communications over the world. ICAICT 2016 will bring together more than hundred delegates from around the globe to discuss the latest advances in this vibrant and constantly evolving field.

It is obvious, communication technology has fundamentally transformed our society in recent decades and the technology itself is progressing and exploring new horizons. The delegates in ICAICT 2016 will discuss and present the latest advances in next generation networking and communication systems.

The ICAICT 2016 Conference will provide a wonderful forum for you to extend your knowledge and explore the innovations. The Conference will provide you with the opportunity to meet and interact with the leading scientists and researchers, friends and colleagues as well as sponsors.

In addition, I therefore wish to take this opportunity to express my warmest thanks to many individuals, who have supported and helped me over the years. Without their contribution and collaboration the ICAICT 2016 could not have achieved so many impressive results.

It has been a great privilege for me to serve as the General Co- Chair of ICAICT 2016 and it is my hope that you find the conference stimulating, fulfilling and enjoyable.

We hope you will participate to the conference for a symphony of outstanding science, and take a little extra time to enjoy the spectacular and unique beauty of Chittagong, Bangladesh.

Professor M. Nuruzzaman (CIU, Bangladesh)

MESSAGE FROM THE PROGRAM CHAIR

I am gratified to observe that finally, by the grace of almighty, the launching of the 1st International Conference on Advanced Information & Communication Technology (ICAICT 2016) has come to reality.



Sheikh Hasina, the honourable prime minister of Bangladesh, has announced her goal Digital Bangladesh Vision 2021. Thus there is much need to cultivate research and innovation, and nurture young talents in the area of ICT. As part of the first int'l event jointly organized by ICRCB (Information and Communication Research Community, Bangladesh), CIU and UTM, via ICAICT we endeavor to fulfill the goal to strengthen the network and information & communication engineering education. The aim is to establish a platform to bring researchers from around the world together, encourage young talents of the country to share their innovative and state-of-the-art thoughts, and facilitate networking for further collaborations.

This year ICAICT 2016 has received a total number of 117 papers from all over the world (e.g., Bangladesh, Malaysia, Japan, KSA, Nepal, Pakistan), where 20% of the submitted papers are from overseas. After the review process, only 74 papers have been accepted for the final presentation, thus the acceptance rate is only 63%. All papers presented in the conference will be considered for Jurnal Teknologi and ULAB Journal of Science & Engineering. However, after the 2nd round of the review process only selected papers will be submitted to these journals, where the total number may vary between 30 – 50 or more.

I hope you find the conference, including the Keynote & Invited speakers, the technical sessions and other program events educational and interesting. Last but not the least, my heartfelt appreciations go out to the authors, keynote and invited speakers, reviewers, and also the organizing committee who have helped to make this conference a success.

Dr. A.K.M. Muzahidul Islam (MJIIT, UTM KL Campus, Malaysia)

MESSAGE FROM THE SECRETARY

On the eve of the 1st International Conference on Advanced Information & Communication Technology (ICAICT 2016) organized by School of Engineering and Computer Science, Chittagong Independent University (CIU) jointly with Malaysia-Japan International Institute of Engineering(MJIIT), Universiti Teknologi Malaysia (UTM), it gives me an immense pleasure to welcome you all here in Chittagong, Bangladesh.



I, on behalf of the organizing team, feel very honored and privileged to organize this international conference for the first time. We are trying with our best effort to make this conference as a successful event, where researchers and practitioners can exchange new ideas by means of keynotes, technical presentations and discussions, and the projects exhibition by the prominent national industries. It is expected that this conference will generate new cooperation among the participants in their future research, academic, and national development activities. I also expect that the continued initiative of organizing the conference and its outcomes will eventually help enable the vision of 'Digital Bangladesh'.

I hope you will enjoy the conference and plan to contribute to this event as authors, speakers, and volunteers. Wish you all the best during the conference, and hope that you will have time during your visit to explore and enjoy our city.

I look forward to welcoming you all at CIU, Chittagong, Bangladesh.

Assistant Professor Atiqur Rahman (CIU, Bangladesh)

Steering Committee

A.K.M. Muzahidul Islam, Universiti Teknologi Malaysia (UTM), Malaysia
Ashir Ahmed, Kyushu University, Japan
Atiqur Rahman, Chittagong Independent University (CIU), Bangladesh
Feroz Ahmed, Independent University, Bangladesh (IUB) , Bangladesh
Ishtiak Al Mamoon, Presidency University (PU), Bangladesh
Md. Rafiqul Islam, Int'l Islamic University Malaysia (IIUM), Malaysia
Mohammad A. Razzaque Raz, Trinity College Dublin (TCD), Ireland
Nafees Mansoor, University of Liberal Arts Bangladesh (ULAB), Bangladesh

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T. Abd Rahman (UTM, Malaysia)
Y. Katayama (NiTech, Japan)
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A. Razzak (IUB, Bangladesh)
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S. Khan (IUB, Bangladesh)
Md. M. Islam (IIUC, Bangladesh)
G. Muhammad (King Saud University, KSA)
Karim Mohammed Rezaul (Glyndwr University, UK)

ORGANIZING COMMITTEE

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General Co-chairs

M. Nuruzzaman (CIU, Bangladesh)

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Program Co-Chairs

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M. Mahbubur Rashid (IIUM, Malaysia)

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H. Amran (CIU, Bangladesh)

Registration Chair

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M. Zareei (UTM, Malaysia)
Y. Md Yusof (UTM, Malaysia)
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N. Syazwani (UTM, Malaysia)
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M. Alam (UAP, Bangladesh)
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J. Uchida (Aisin-AW, Japan)
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M. Moinul Islam (EDU, Bangladesh)
Asim Zeb (Qurtaba University, Pakistan)
Mojtaba Alizadeh (Lorestan University, Iran)
Mohameed E. Hamza (UTM, Malaysia)
Rubell Sen Gupta (CIU, Bangladesh)
Golap Kanti Dey (CIU, Bangladesh)

CONTACT INFORMATION
BEFORE AND AFTER CONFERENCE

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During the Conference:

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GENERAL INFORMATION

About Chittagong

Chittagong is the second largest city in Bangladesh. It is the Commercial Capital City of Bangladesh. The surrounding mountains and rivers make the city attractive. Karnaphuli River falls in Chittagong. The largest land port of the country, “Chittagong Port”, situated in Chittagong. That’s why Chittagong is the city for export and import. Most of the large industries of Bangladesh are situated in Chittagong.

Chittagong, is an ideal vacation spot. Its green hills and forests, its broad sandy beaches and its fine cool climate always attract the holiday-makers. Described by the Chinese traveler poet, Huen Tsang (7th century A D) as “a sleeping beauty emerging from mists and water” and given the title of “Porto Grande” by the 16th both the descriptions even today. It combines the country’s chief port and is the main site for the establishment of heavy, medium and light industries. Bangladesh’s only steel mill and oil refinery are also located in Chittagong.

Patenga Sea Beach

It is a natural beauty spot. Here is the confluence of the river Karnaphuli and the Bay of Bengal. Visitors can have a view of the bay sitting on the heaps of boulders, walk along the sandy beach or can enjoy the illusive touch of the little of the setting sun. The beach is stressed up to 22km. It is 20 km. away from the Zero Point.





Chittagong Commonwealth War Cemetery

This cemetery was established to show the honor for the soldiers and others who died in World War II. The cemetery was created by the British Army, and there were originally about 400 burials. The place is well maintained and the atmosphere is somber. The plaques speak of the young lives that have been lost in world war 2. Somehow you get lost amidst the silence of the graves.

Foy's Lake

This beautiful lake surrounded with lovely hills is situated just east of the Pahartali Railway Station and West of the Khulshi residential area. This lake attracts thousands of visitors almost each day. There are small bushy hills around the green water of the lake. This beautiful artificial lake was created in 1942 by the Bengal Railways Engineer Mr. Foy for providing drinking water.



Chittagong Independent University (CIU)

Chittagong Independent University (CIU) started its journey in 1999 on the first private university as an additional campus of Independent University Bangladesh (IUB) at Chittagong. IUB and the founding trust pioneered the establishment of private universities in Bangladesh. CIU was formed by the same trust ESTCDT after the amendment by the private university Act. The new act required that the Chittagong Campus is incorporated as an university. CIU was founded on 6th February, 2013 in succession.



CIU is unique among private universities which have been providing quality education with international setup and world class facilities in Chittagong. CIU has been following North American Course curriculum with open credit system.



The faculty members and management personnel are all highly qualified with years of experience and are inherited from the then IUB. The faculty members have obtained degrees from renowned institutions at home and abroad and undertake research activities on a regular basis. They publish extensively in national and international academic journals, attend national and international conferences. The academic environment of CIU is complemented by a number of student clubs which organize round-the-year co-curricular events. CIU consists of four individual school namely Independent Business School (IBS), School of Engineering & Computer Science (SECS), School of Liberal Arts and Social Sciences (SLASS) and School of Law (SOL), respectively and is offering fourteen (14) undergraduate, five (5) graduate and number PGD courses. CIU has established collaborations with top universities and institutions in abroad.

KEYNOTE AND INVITED SPEAKERS

Name: Professor Koichi Wada

Title: Parallel Complexity on MapReduce Computation



Short biography:

Kochi Wada is currently serving as a Professor in the department of Applied Informatics under Faculty of Science and Engineering at Hosei University, Japan since April 2012. He is also serving as an Emeritus Professor at Nagoya Institute of Technology (NIT) since May 2012. Earlier, Prof. Wada received his Ph.D. degree in Information and Computer Science from Osaka University in 1983. He also served as a visiting Professor at ETH Zurich (Switzerland), RWTH, Aachen (Germany), University of Wisconsin Milwaukee (USA), University of Minnesota (USA). His current research includes graph theoretical concepts, ad-hoc sensor networks, parallel and distributed computing and big data. He is a member of ACM, IEEE, IPSJ, IEICE (fellow). He has published over 100 research articles and written many books.

Abstract:

MapReduce framework has emerged as one of the most widely used parallel computing platforms for processing BigData on tera- and peta-byte scale. In this note, we introduce several theoretical computational models for MapReduce computation from a standpoint of parallel algorithmic power by comparing MapReduce computation with standard parallel computational models such as PRAMs and/or combinational Boolean circuits. We survey recent results about computational parallel complexity of MapReduce computation.

Name: Professor Tharek Abd Rahman

Title: 5G Mobile Communication: Evolution or Revolution.

Short biography:

Prof. Dr. Tharek A. Rahman currently is a professor in wireless communication at faculty of electrical engineering, Universiti Teknologi Malaysia. He obtained his BSc (Hons) in Electrical Engineering from University of Strathclyde, UK, MSc in Communication Engineering from UMIST, Manchester, UK and PhD in Mobile Communication from University of Bristol, UK. He is the Director of Wireless Communication Centre (WCC), Faculty of Electrical Engineering, Universiti Teknologi Malaysia and currently conducting research related to mobile communications, antenna and propagation. He has also conducted various short courses related to mobile and satellite communication to the telecommunication industry and government agencies since 1988. Prof. Tharek has published more than 300 scientific papers in journals and conferences and obtained many national and international awards. He is also a consultant for many communication companies and an active member in several research academic entities.



Abstract:

The promise of 5G as next generation of mobile communication offers huge potential to service providers, application developers and wireless consumers. The features of 5G will be low latency, higher spectral efficiency, higher user density and higher data rate than 4G mobile communication. 5G not only involved connectivity to anyone and anytime but also anyone, anytime and anything supporting Internet of Things (IOT). 5G which also known as special generation not only will enhance further the mobile broadband but also integrating machine to machine and device to device. The standardization process of 5G will be completed in year 2020. The concept of 5G will be small cell and steerable antenna. Evolution and revolution towards 5G will involve setting up more base station. The presentation is related to the evolution and revolution of the 4G mobile communication towards 5G mobile communication.

Name: Professor Minoru Okada

Title: RFID-tag Assisted for Surgery Support System

Short biography:

Minoru Okada received the B.E. degree in communications engineering from University of Electro-Communications, Tokyo, Japan in 1990. He received the M.E. and Ph.D. degrees in communications engineering from Osaka University, in 1992 and 1998, respectively. Since 1993, he served as an assistant professor at Osaka University. In 2000, he moved to Nara Institute of Science and Technology (NAIST) as an associate professor and now he is a professor at the same Institute. He is a member of IEEE, IEICE, and ITEJ. Research Interests includes wireless communications, digital broadcasting, and RF signal processing.



Abstract:

The positioning system inside the human body is efficient for improving medical treatment. The current progress in the sophisticated imaging technologies such as computed tomography (CT) and magnetic resonance imaging (MRI) enable us to find a tumor with a size of less than 10mm. It is, however, sometimes difficult to determine its position during surgery operation due to the deformation of organs. We need a surgical marking system to determine the correct tumor position. A capsule endoscopy is another application for in-body positioning systems. Although the capsule endoscopy is capable of diagnosing a disease in the small intestine, we cannot point out the position at which it takes the diagnostic image. We have developed an RFID (Radio Frequency Identification)-based surgical marking system. The miniature RFID tags are implanted near the target tumor during the diagnosis phase. The operator can determine the position of the implanted RFID tags by specially designed sensor antenna. The target RFID tags are moving due to internal organ motion. We have developed a particle filter assisted method for tracking the target RFID tags. In this speech, I will introduce some results on the developed RFID-tag based in-body positioning system.

Name: Professor Nozomu Hamada

Title: Time-Frequency Sparseness Approaches for Localization and Separation of Multiple Acoustic Sources

Short biography:

Nozomu Hamada received B.S., M.S. and Ph.D. degrees in electrical engineering from Keio University, Yokohama, Japan. His research interests include circuit theory, stability theory of dynamical systems, digital signal processing, and image processing. In 1974, he joined the Department of Electrical Engineering in Keio University. From 1993 to 2013, he was a Professor in the System Design Engineering, Faculty of Science and Technology, Keio University. He is now a professor in the Electronic System Engineering at Malaysia-Japan International Institute of Technology (MJIT), University Technology Malaysia (UTM). He is also a professor emeritus of Keio University. He was a visiting researcher at the Australian National University in 1982, an adjunct professor of Xi'an Jiao-tong University and Xi'an Jiao-tong University City College during 2006-2009, and a visiting scholar of EMARO program of Warsaw University of Technology in 2010. He received the 2012 Best Paper Award from RISP. He was a member of the board of IEEE Japan Council, and the chair of Japan Chapter of IEEE Signal Processing Society. He is a fellow of IEICE and a life member of IEEE.



Abstract:

For better speech-based human-machine/robot communication, recent advanced sensor array system is promising. It utilizes the collection of multi-channel acoustic data from array of sensors for direction estimation, tracking, and separation of target speech sound from other speakers and background noises. The short time Fourier Transform provides sparse representation in the Time-Frequency (T-F) domain of speech signal. This sparseness inherently implies W -disjoint orthogonality between speech signals, where the T-F components in different speech signals rarely overlap with each other. Under the W -disjoint assumption, recent unified approaches have been developed for the following issues; the

direction finding and the tracking of multiple sound sources, the separation of target speech signal from other sound sources. This plenary talk at first review several sparseness-based approaches addressing these problems. Most of the approaches introduce spatial features of T-F cells, where probability models of these features and modern pattern recognition schemes, such as k-means, mean shift, and EM, are applied for localization and separation process. In addition, sequential Bayesian or particle filter estimation can track multiple moving source directions. Recent our approaches for the same purposes using arbitrary geometrical configuration array are discussed. A number of conducted experiments are shown for proving the proposed algorithms.

Name: Professor Yoshiaki Katayama

Title: An Introduction to an Autonomous Mobile Robot System
as a Theoretical Distributed System



Short biography:

Yoshiaki Katayama received his B.E., M.E. and D.E. in computer science from Osaka University in Japan. He had been working at Nara Institute of Science and Technology (NAIST) from 1994 to 2002. And he has joined Nagoya Institute of Technology (NITECH) in 2002. Now, he is a professor of department of computer science and engineering, graduate school of engineering, NITECH. His research interests include distributed algorithms, network applications and intelligent home appliance systems. He is a member of ACM, IEEE (Computer Society), IEICE and IPSJ.

Abstract:

A distributed system consists of autonomous computing entities and communication links between them. We can regard an autonomous robot system as such a distributed system. Every autonomous robot autonomously computes, moves, and implicitly communicates each other by observing other robots' locations and changing its own location. In recent years, the autonomous mobile robot system attracts a lot of theoretical distributed computing researchers to the investigation on computability by mobile entities. In this note, I will introduce a brief outline of the autonomous robot system and some problems considered on it.

Name: Professor Ashir Ahmed

Title: Technologies to Address Social Issues in SDG

Short biography:

Ashir Ahmed is an Associate Professor, Department of Advanced Information Technology, Kyushu University, Japan and Director of the GCC project, Grameen Communications, Bangladesh. His research aims to produce and promote ICT based social services for the world's impoverished. Key international projects he has initiated and led include: GramWeb (a village information platform); ePassbook (an electronic gadget providing access to banking, health care and e-commerce); a \$US300 portable health clinic; an Income Generation Project for Farmers using ICT; and MaaS (Mobility as a Service) for developing countries. Ashir received his Ph.D. in Information Sciences from Tohoku University in 1999.



Abstract:

The way that technologies have been commoditized does not serve the poor, the largest community in the world. Many problems in health, education, business, and agriculture can be solved simply if developers, managers and distributors of technologies consider the requirements of this largely unreached population. Kyushu University in Japan and Grameen Communications in Bangladesh undertook initiatives to explore the field of social-needs-based technology and product development. This talk introduces some of our innovations: ePassbook as an electronic gadget; a social information platform to bring new business opportunities to rural people; a portable clinic for the unreached patients. Each of these projects has been developed with the involvement of industries, academia, government and the community, which the product will serve. However, a central entity is required to effectively collaborate with all these organizations and to deploy them for the target population through social business. Our Social Technology Lab is a model to respond to these needs.

CONFERENCE SESSIONS

1ST ICAICT 2016 INTERNATIONAL CONFERENCE

PROGRAM SCHEDULE

Day 1 (Monday, May 16, 2016)

Time	Event			
08:00 – 9:00	Registration			
09:00 – 10:00	Opening Ceremony			
10:00 – 10:45	Coffee Break			
11:00 – 11:40	Keynote Speaker 1: Prof. Dr. Koichi Wada			
11:40 – 12:20	Keynote Speaker 2: Prof. Dr. Tharek Abd Rahman			
12:20 – 13:00	Keynote Speaker 3: Prof. Dr. Nozomu Hamada			
13:00 – 14:00	Lunch and Prayer Break			
14:00 – 15:40	T-1 Sensor Networks	T-2 Image Processing	T-3 Antenna And Signal Propagation	T-4 Information Processing
15:40 – 16:00	Coffee Break			
16:00 – 18:00	T-5 Communications Security	T-6 Image Processing	T-7 Cognitive radio networks	T-8 Information Processing
19:30	ICAICT 2016 Banquet Dinner			

1ST ICAICT 2016 INTERNATIONAL CONFERENCE

PROGRAM SCHEDULE

Day 2 (Tuesday, May 17, 2016)

Time	Event				
08:00 – 09:00	Registration				
09:00 – 09:40	Keynote Speaker 4: Prof. Dr. Minoru Okada				
09:40 – 10:20	Keynote Speaker 5: Prof. Dr. Yoshiaki Katayama				
10:20 – 11:00	Keynote Speaker 6: Prof. Dr. Ashir Ahmed				
11:00 – 11:30	Coffee Break				
11:30 – 13:30	T-9 Network Protocols	T-10 Healthcare in ICT	T-11 Power Systems	T-12 ICT	T-13 Ubiquitous Networking
13:30 – 14:30	Lunch and Prayer Break				
14:30 – 15:30	ICAICT 2016 Closing Ceremony				

TECHNICAL SESSION 1

Session Name: Sensor Networks

Session Chair: Prof. Yoshiaki Katayama, NiTech, Japan

Time: 14:00 – 15:40

Date: May 16, 2016

- Paper ID 36** Context Aware Energy Allocation by Auction Based Method in Wireless Sensor Networks
Imam Ush Shaheed, Sadia Sabrin Nodi and Muhidul Islam Khan
Department of Computer Science and Engineering, BRAC University, Dhaka, Bangladesh
- Paper ID 48** Implementation of Improved Harmony Search Based Clustering Algorithm in Wireless Sensor Networks.
Anamika Dey, Tamal Sarkar, Md. Arif Ullah, and Nasrin Nahar
Department of CSE, University of Asia Pacific, Dhaka, Bangladesh
- Paper ID 73** Modeling a Zigbee and PLC Based Smart Energy Monitoring and Management System to Reduce Rolling Blackout in Bangladesh
Md. Rakin Sarder, Feroz Ahmed, and Tahsin Ferdous Ara Nayna
Department of Electrical and Electronic Engineering, Independent University, Bangladesh, Dhaka, Bangladesh
- Paper ID 92** Gesture Based Wireless PC Control with Gyroscope and Accelerometer
Sabrina Tarannum, Mohammed Saifuddin Munna, Mohammad Ariful Islam Bhuyan
Department of Computer Science & Engineering, Premier University, Chittagong, Bangladesh

TECHNICAL SESSION 2

Session Name: Image Processing

Session Chair: Prof. Nozomu Hamada, UTM, Malaysia

Time: 14:00 – 15:40

Date: May 16, 2016

Paper ID 52 An Improved Decision based Noise Reduction filter for Salt and Pepper Noise

Golam Moktader Daiyan, Fahmida Akter

*Department of Computer Science and Engineering,
East Delta University, Chittagong, Bangladesh*

Paper ID 61 Blind Image Restoration by using PCA-Subspace Generation and Image Quality Optimization

Brian Sumali, Haslina Sarkan, and Nozomu Hamada

*Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia
Yasue Mitsukura*

*Department of System Design Engineering, Faculty of
Science and Technology, Keio University
Yokohama, Japan*

Paper ID 66 Compressed Image Transmission over AWGN Channel using DCT and Rai Sed Cosine Filter

Md. Khaliluzzaman

*Department of Computer Science & Engineering,
International Islamic University Chittagong (IIUC),
Chittagong, Bangladesh*

Deepak Kumar Chy

*Department. of Electrical & Electronics Engineering,
University of Information Technology & Sciences (UITS),
Dhaka, Bangladesh*

Paper ID 71 Automatic Face Annotation with Face Prototype Map in Personal Photo Frame Application

Supratip Ghose and Ziku Dhar

*Department of Computer Science, University of Information
Technology & Sciences, Dhaka, Bangladesh*

Paper ID 116 Detection of Human's Focus of Attention using Head
Pose

*Mohammed Moshiul Hoque, Sadia Afroze
Department of Computer Science and Engineering,
Chittagong University of Engineering and Technology,
Chittagong, Bangladesh*

TECHNICAL SESSION 3

Session Name: Antenna and Signal Propagation

Session Chair: Dr. Feroz Ahmed, IUB, Bangladesh

Time: 14:00 – 15:40

Date: May 16, 2016

Paper ID 03 Development of Software for the Basic Line-of-Sight
Parameters Calculation

*Abidur Rahaman, Md. Shariful Alam and ZH Mozumder
Department of Information and Communication
Engineering, Noakhali Science and Technology University,
Bangladesh*

Paper ID 04 Design of a Circular Polarization Array Antenna
Using Both Sided MIC Technology

*Tasfia Tasbin, Sabrina Abedin, Piyas Chowdhury, Md. Azad
and Quazi Delwar Hossain
Department of Electronics and Telecommunication
Engineering, Chittagong University of Engineering &
Technology, Chittagong, Bangladesh*

Paper ID 51 CHAAR: A Location Based Product Offer
Advertisement App

*S.M. Mohi-Us Sunnat and Amitabha Chakrabarty
Department of Computer Science and Engineering*

BRAC University, Dhaka-1212, Bangladesh

Paper ID 67 Performance Survey of HSPA Network in Chittagong City

*Abu Sayed Chowdhury, Sadia Kamal, and Nusera Tasrin
University of Science and Technology Chittagong,
Chittagong, Bangladesh*

Paper ID 93 Analysis of Chirp Induced Impairments in Fiber Optic Transmission Systems Using Various Types of Fiber

*Kanis Fatima, Md. Saiful Islam
Institute of Information and Communication Technology,
Bangladesh University of Engineering and Technology,
Dhaka, Bangladesh*

Paper ID 108 Novel Approach of Phased Array Antenna with Beam Steering Technology for Microwave Power Transmission from SSPS System

*Golap Kanti Dey, Kazi Tanvir Ahmmed, and Rubell Sen
Goopta
School of Engineering and Computer Science,
Chittagong Independent University, Chittagong, Bangladesh*

TECHNICAL SESSION 4

Session Name: Information Processing

Session Chair: Prof. M. Moshiul Hoque, CUET, Bangladesh

Time: 14:00 – 15:40

Date: May 16, 2016

Paper ID 09 An Investigation into Various Methods of Lip Reading Systems

*Muhammad Mamunur Rashid, Rashed Mustafa and
Mohammad Sanaullah
Department of Computer Science and Engineering,
Port City International University, Chittagong, Bangladesh*

- Paper ID 13** A Survey-based Study on Lip Segmentation Techniques for Lip Reading Applications
Nahid Akhter and Amitabha Chakrabarty
Department of Computer Science and Engineering,
BRAC University, Dhaka, Bangladesh
- Paper ID 14** Comparison of Vocal-Tract Dynamics for Bangla Vowel and Vowel-Consonant-Vowel Sequence
Sathi Rani Mitra and Md. Mahbub Hasan
Department of Electrical & Electronic Engineering
Khulna University of Engineering & Technology,
Khulna, Bangladesh
- Paper ID 50** Comparative Analysis of Protein Alignment Algorithms in Parallel Environment using CUDA
Shadman Fahim, Shehabul Hossain, Gulshan Jubaed Prince, and Jia Uddin
Department of Computer Science and Engineering,
BRAC University, Dhaka, Bangladesh
- Paper ID 72** Automatic Electrical Home Appliance Control and Based Brain-Computer Interfacing
S. Paul, T. Sultana, M. Tahmid
Electrical and Electronics Engineering
School of Science, Engineering and Technology,
East Delta University, Chittagong, Bangladesh
- Paper ID 98** WoTCoMS: A Novel Cross-Layered Web-of-Things Based Framework for Course Management System
Nusrat Jahan Farin, Atiqur Rahman, Nafees Mansoor, Sazzad Hossain
Department of Computer Science and Engineering,
University of Liberal Arts Bangladesh, Dhaka, Bangladesh

TECHNICAL SESSION 5

Session Name: Communications Security

Session Chair: Dr. Pranab Kumar Dhar, CUET, Bangladesh

Time: 16:00 – 18:00

Date: May 16, 2016

Paper ID 12 Augmenting ATM Security Analyzing Thermal Imaging and Voice Biometric Recognition
Telecommunications
Mehedi Mahmud and Muhammad F. Mridha
CSE Department, University of Asia Pacific, Dhaka, Bangladesh

Paper ID 57 Improve Payment Card Security by Adding Voice and Fingerprint Biometric Solution
Md. Tahajul Islam, Mehedi Mahmud, Muhammad F. Mridha
CSE Department, University of Asia Pacific, Dhaka, Bangladesh

Paper ID 79 A System to Ensure Privacy for Android Users
Pranab Kumar Dhar, Sulogna Chowdhury, and Lamia Alam
Department of CSE, Chittagong University of Engineering and Technology (CUET), Chittagong, Bangladesh

Paper ID 102 Artificial Neural Network Approach for Stock Price and Trend Prediction
Nasimul Hasan, Risul Islam Rasel
Department of Computer Science and Engineering, International Islamic University Chittagong, Chittagong, Bangladesh

Paper ID 104 Phishing Websites Detection Using Machine Learning Based Classification Techniques
Mazharul Islam, Nihad Karim Chowdhury

*Department of Computer Science & Engineering,
International Islamic University of Chittagong, Chittagong,
Bangladesh*

TECHNICAL SESSION 6

Session Name: Image Processing

Session Chair: Dr. Abdur Razzak, IUB, Bangladesh

Time: 16:00 – 18:00

Date: May 16, 2016

Paper ID 40 Design of a Vision Based Person Following Robot
*Rakibul Hasan, Jahedul Islam, Rashed Md. Murad Hasan
and Adhri Nandini Paul
EEE & CSE Department,
Chittagong university of Engineering and Technology,
Chittagong, Bangladesh*

Paper ID 60 An Efficient Magic Mirror Using Kinect
*Md. Moniruzzaman Monir, Nahyan Ebn Hashem,
Md. Nafis Hasan Siddique, Afsana Pervin Tanni, and Jia
Uddin
Department of Computer Science and Engineering
BRAC University, Dhaka, Bangladesh*

Paper ID 91 Design and Implementation of a Painter Robotic Arm
with Graphical User Interface
*Mohammed Saifuddin Munna, Bijoy Kumar Tarafder, Md.
Golam Robbani, and Tuton Chandra Mallick
Department of Electrical and Electronic Engineering,
Premier University, Chittagong, Bangladesh*

Paper ID 97 The Promise and Challenges of Enhancing Solar Cell
Efficiency Using Patterned Nanostructures
Saniat Ahmed Choudhury, Mustafa Habib Chowdhury

*Department of Electrical and Electronic Engineering,
Independent University, Bangladesh, Dhaka, Bangladesh*

Paper ID 113 Bangladeshi Vehicle Digital License Plate Recognition for Metropolitan Cities Using Support Vector Machine
*Md Azher Uddin, Joolekha Bibi Joolee, Shayhan Ameen Chowdhury
Computer Science & Engineering, International Islamic University Chittagong, Chittagong, Bangladesh*

TECHNICAL SESSION 7

Session Name: Cognitive Radio Network

Session Chair: Prof. Asaduzzaman, CUET, Bangladesh

Time: 16:00 – 18:00

Date: May 16, 2016

Paper ID 42 Drowsiness Level Detection for the Protection from Accident of Intelligent Transportation System (ITS)
*Md. Kamrul Hasan, Shantanu Sen Gupta, S. M. Hasnat Ullah, and Mohiuddin Ahmad
Department of Electrical and Electronic Engineering,
Khulna University of Engineering & Technology (KUET),
Khulna, Bangladesh*

Paper ID 47 Selection of Optimal Number of Relays for Distributed Wireless Networks Based on Game Theory
*Abhijit Chowdhury, and Asaduzzaman
Department. of Computer Science & Engineering,
Chittagong University of Engineering & Technology.
Chittagong, Bangladesh*

Paper ID 49 Optimal Power Allocation for Multichannel Cognitive Radio Systems Using Stackelberg Game
Mohammad Obaidur Rahman and Asaduzzaman

*Department of Computer Science and Engineering,
Chittagong University of Engineering and Technology,
Chittagong, Bangladesh*

Paper ID 59 An Empirical Study on GSM Spectrums in Bangladesh using SDR Technology.

*Md. Habibur Rahman, Md. Mamunoor Islam
Department of Electrical and Electronic Engineering,
Chittagong University of Engineering & Technology,
Chittagong, Bangladesh*

Paper ID 90 Basic Sequential Algorithmic Scheme Based Blind Common Phase Error Compensation in OFDM Systems

*Md. Alamgir Hossain
Khulna University of Engineering & Technology,
Khulna, Bangladesh*

Paper ID 109 Cognitive Radio Enabled VANET for Multi-agent Based Intelligent Traffic Management System

*S. M. Nadim Uddin
Department of Electronics and Telecommunication
Engineering, University of Liberal Arts Bangladesh
Nafees Mansoor, Sazzad Hossain
Department of Computer Science and Engineering,
University of Liberal Arts Bangladesh, Dhaka, Bangladesh*

TECHNICAL SESSION 8

Session Name: Information Processing

Session Chair: Dr. Nazim Uddin, EDU, Bangladesh

Time: 16:00 – 18:00

Date: May 16, 2016

- Paper ID 07** Automated Credit Scoring System for Financial Services in Developing Countries
Rebeka Sultana, Samira Muntaha, Farhana Sarker, D. M. Anisuzzaman and Khondaker A. Mamun
*Advanced Intelligent Multidisciplinary Systems Lab,
Department of Computer Science and Engineering,
United International University Dhaka, Bangladesh*
- Paper ID 76** JRanker: An Approach to Evaluate the Prestige of a Journal Using PageRank and Alexa Rank along with Impact Factor
Muhammad Kamal Hossen, and Afiya Ayman
*Department of Computer Science & Engineering
Chittagong University of Engineering & Technology
(CUET), Chittagong, Bangladesh*
- Paper ID 80** A Location Based Smartphone Application to Rent Private Vehicles at Real Time
Faisal Ahmed, Fatema-Tuj-Johora, and Mohammad Sanaullah Chowdhury
*Department of Computer Science & Engineering,
University of Chittagong, Chittagong, Bangladesh*
- Paper ID 83** Recursive Suffix Stripping to Augment Bangla Stemmer
Md. Hanif Seddiqui, and Abdullah Al Mohammad Maruf
*University of Information Technology & Sciences
Dhaka, Bangladesh*
Nowshed Chy
*Department of Computer Science & Engineering
Toyohashi University of Technology
Toyohashi, Aichi, Japan*
- Paper ID 105** Performance Analysis between Probabilistic and Decision Tree based Classification on User Knowledge Model Dataset
Md. Faisal Alam, Rashik Hafiz, Mohammad Sanaullah Chowdhury, Nihad Karim Chowdhury

*Department of Computer Science and Engineering,
International Islamic University Chittagong, Bangladesh*

Paper ID 112 Bangla Word Sense Disambiguation System using Dictionary Based Approach

*Afsana Haque and Mohammed Moshiul Hoque
Department of Computer Science & Engineering,
Chittagong University of Engineering & Technology,
Chittagong, Bangladesh*

TECHNICAL SESSION 9

Session Name: Network Protocols

Session Chair: Dr. Mohammad Sanaullah, CUET, Bangladesh

Time: 11:30 – 13:30

Date: May 17, 2016

Paper ID 29 Pocket Switched Networks Routing: A Survey

*Rupa Barua, Shauvik Shadman, Amitabha Chakrabarty
Department of Computer Science and Engineering
BRAC University, Dhaka, Bangladesh*

Paper ID 32 Performance Analysis of Routing Protocols in Mobile Ad-hoc Network (MANET)

*Md. Zulfikar Alom, Tapan Kumar Godder and Mohammad Nayeem Morshed
Department of Information & Communication Engineering,
Islamic University, Kushtia, Bangladesh*

Paper ID 89 GPON Triple Play and SDH Connectivity Structure with Cost Analysis

Md. Hayder Ali, and Md. Saiful Islam

Institute of Information and Communication Technology (IICT), Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh

Paper ID 100 Simulation Based Study to Present the Performance of Ad-hoc Routing Protocol

Shad Muhammad, Ghani ur Rehman, Tariq Usman, Fawad Ta., Atiqur Rahman, and Asim Zeb

Computer Science Department, Khushal Khan Khattak University, Pakistan

Paper ID 103 Sensorless Temperature Monitoring System using GSM Module for Smart Home Applications

Md. Mahamudul Hasan, Md. Yeasin Arafat, Mahtab Murshed and M. Abdur Razzak

Department of Electrical & Electronic Engineering, Independent University, Bangladesh, Dhaka, Bangladesh

Paper ID 111 Network Formation and Data Centric Routing in Wireless Sensor Networks

Asim Zeb, Javed Bangash, A.K.M Muzahidul Islam, Sabariah Baharun, Atiqur Rahman, Yoshiaki Katayama
Qurtaba University, Peshawar, Pakistan

Abasyn University, Peshawar, Pakistan

Malaysia Japan International Institute of Technology, Universiti Teknologi Malaysia, Malaysia

Graduate School of Engineering, Nagoya Institute of Technology, Nagoya, Japan

TECHNICAL SESSION 10

Session Name: Healthcare in ICT

Session Chair: Dr. Ashir Ahmed, Kyushu University, Japan

Time: 11:30 – 13:30

Date: May 17, 2016

- Paper ID 82** Review on Telemonitoring of Maternal Health care Targeting Medical Cyber-Physical Systems
Mohammad Abul Kashem, Md. Hanif Seddiqui, Nejib Moalla, Aicha Sekhari, and Yacine Ouzrout
DISP Laboratory, IUT Lumiere Lyon 2, Lyon, France
- Paper ID 86** ECG Signal Based Heart Disease Detection System for Telemedicine Application
Emranul Haque and Feroz Ahmed
Department of Electrical and Electronic Engineering
Independent University, Bangladesh
- Paper ID 41** An Expert System for Clinical Risk Assessment of Polycystic Ovary Syndrome Under Uncertainty
Md. Khaliluzzaman, Tanjim Mahmud, Rezaul Karim and Deepak Kumar Chy
University of Chittagong, Chittagong, Bangladesh,
International Islamic University Chittagong, Chittagong, Bangladesh,
Textile Engineering College, Noakhali, Bangladesh,
University of Information Technology & Sciences, Dhaka, Bangladesh
- Paper ID 46** A Systematic analysis on the Telemedicine Services in Bangladesh
Uzzal Kumar Prodhan, Muhammad Zahidur Rahman, and Israt Jahan
Computer Science & Engineering Department, Jatiya Kabi Kazi Nazrul Islam University. Maymensingh, Bangladesh
- Paper ID 56** Social Adoption of ICT Based Healthcare Delivery Systems in Rural Bangladesh
Md. Nazmul Hossain, Kazi Mozaher Hossein, Rajib Chakrabarty, Hiroshi Okajima, Hironobu Kitaoka, Ashir Ahmed
Dept. of Advanced Information Technology,
Kyushu University, Fukuoka, Japan

Paper ID 74 An Android Based Femina Security Alert System
Sayedfa Fauzia, Shajeda Khanam, Sanjida Sharmin and Md. Khaliluzzaman
Dept. of Computer Science and Engineering, International Islamic University Chittagong, Chittagong, Bangladesh
Dept. of Computer Science and Engineering, University of Chittagong, Chittagong, Bangladesh

TECHNICAL SESSION 11

Session Name: Power Systems

Session Chair: Prof. Shahriar Khan, IUB, Bangladesh

Time: 11:30 – 13:30

Date: May 17, 2016

Paper ID 05 Smart Window Blind Control System
M. Bhuiyan, D. A. Firdhaus and Kh. Arif Shahriar
Department of Electrical and Electronic Engineering,
Northern University Bangladesh, Dhaka, Bangladesh

Paper ID 21 Comparative Study of Integrated Transceiver for Real Time Monitoring in Rescue Operation
Md. Nasir Uddin, M M Rashid, SZ Ahmed, Sultan Mahmud, NA Nithe and JI Rony
Department of Mechatronics Engineering International Islamic University Malaysia, Kuala-Lumpur, Malaysia

Paper ID 24 Development of an Absorption Silencer for Generator's Noise Reducing
Md. Nasir Uddin, M M Rashid, SZ Ahmed, Sultan Mahmud, NA Nithe and JI Rony
Department of Mechatronics Engineering International Islamic University Malaysia, Kuala-Lumpur, Malaysia

Paper ID 35 Comparison of Invasive Weed Optimization (IWO) and Particle Swarm Optimization (PSO) in Improving Power System Stability by UPFC Controller Employing a Multi-Objective Approach

Mohammad Shoaib Shahriar, Md Shafiullah, Mohammed Afzal Asif, Md Mahmudul Hasan, Ahmed Ishaque Imtinan Rajgir

Department of Electrical Engineering, King Fahd University of Petroleum & Minerals Dhahran, Saudi Arabia

Paper ID 64 Design and Performance Analysis of CNFET Oscillator and Comparison with its CMOS Implementation

A.Q.M Shaiq, and Safwan Bin Alam

Department of EEE, American International University-Bangladesh (AIUB), Dhaka, Bangladesh

Md. Samiul Alam

School of Science, Engineering and Technology (EDU)

Paper ID 114 Generalized Versions of Kirchhoff's Laws for Students

Shahriar Khan

Independent University, Bangladesh, Dhaka, Bangladesh

Ziauddin Alamgir

Bangladesh Navy

Samina Alam

Premier University, Chittagong, Bangladesh

TECHNICAL SESSION 12

Session Name: Information and Communication Technology

Session Chair: Dr. Jia Uddin, BRAC University, Bangladesh

Time: 11:30 – 13:30

Date: May 17, 2016

Paper ID 19 Performance Evaluation of VoIP Services over UMTS-Network with Differentiated UMTS Bearer Services

Dhawa Sang Dong, Anand Gachhadar

*Department of Electrical and Electronics Engineering
School of Engineering, Kathmandu University, Dhulikhel,
Nepal*

- Paper ID 38** A Smart LAN Infrastructure for VoIP Based Wireless Communication
*SM Tasdid Swad, Md. Rokebul Islam, Sadia Intesar, and Jia Uddin
Department of Electrical and Communication Engineering,
BRAC University, Dhaka, Bangladesh*
- Paper ID 44** Dynamic Hybrid Slot Size Bandwidth Allocation Algorithm for Reducing Packet Delay of Real Time Traffic in EPON
*Md. Selim Morshed, Monir Hossen, Mohammad Mahbubur Rahman, and Masanori Hanawa
Department of Electronics and Communication Engineering,
Khulna University of Engineering & Technology,
Khulna, Bangladesh*
- Paper ID 63** Predicting the Popularity of Online News using Gradient Boosting Machine
*Md. Taufeeq Uddin, Mohammad Shahadat Hossain, Muhammed Jamshed Alam Patwary and Tanveer Ahsan
Department of Computer Science and Engineering
International Islamic University Chittagong, Bangladesh &
Department of Computer Science and Engineering,
University of Chittagong, Chittagong, Bangladesh*
- Paper ID 70** Big Data Characteristics, Value Chain and Challenges
*Rabiul Islam Jony, Abiduzzaman Rahat, and Musfiqur Rahman
University of Liberal Arts Bangladesh, Dhaka, Bangladesh
Rakibul Islam Rony
Primeasia University, Dhaka, Bangladesh*

Paper ID 84 Towards Reducing BoP Penalty through Rural E-Commerce: Optimization of Product Delivery Mechanism

Kazi Mozaher Hossein, Md. Nazmul Hossain, and Ashir Ahmed

Dept. of Advanced Information Technology, Kyushu University, Fukuoka, Japan

Fumihiko Yokota,

Institute of Decision Science for a Sustainable Society, Kyushu University, Fukuoka, Japan

Hironobu Kitaoka, and Hiroshi Okajima

Toyota Motor Corporation, Aichi, Japan

Rajib Chakrabarty

Global Communication Center, Grameen Communications, Dhaka, Bangladesh

SPECIAL SESSION 13

Session Name: Ubiquitous Networking

Session Chair: Prof. Dr. Shamsul Arefin, CUET, Bangladesh

Time: 11:30 – 13:30

Date: May 17, 2016

Paper ID 15 A Holistic Botnet Detection Framework Independent of Botnet Protocols and Architecture

Mohammad Reza Rostami, Norbik Bashah Idris, Zuraini Ismail

Advanced Informatics School (AIS), Universiti Teknologi Malaysia (UTM), Kuala Lumpur, Malaysia

Paper ID 43 Statistical Prediction Model of Rain and Dust Storm Worst Month in Microwave - Millimeter Wave Band

Mohd. Ghazali Hamza, Liza.A.Latiff, Yusaini H.Mohamed, Yusnaidi Md Yusof, M.F. Camara, Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia (UTM), Kuala Lumpur, Malaysia

Paper ID 53 Cloud Intrusion Detection Model Inspired by Dendritic Cell Mechanism Perspective

Azuan Ahmad, Norbik Bashah Idris, and Mohd Nazri Kama Advanced Informatics School (AIS), Universiti Teknologi Malaysia (UTM), Kuala Lumpur, Malaysia

Paper ID 55 A Routing Protocol for Cognitive Radio Ad hoc Network

Mahdi Zareei, A.K.M. Muzahidul Islam, Nafees Mansoor and Sabariah Baharun Malaysia-Japan International Institute of Technology (MJIT), Universiti Teknologi Malaysia (UTM), Kuala Lumpur, Malaysia

Paper ID 65 An Environmental Sensing Experiment Using IEEE 802.15.4 Radio Hop of the WSN TelosB Motes

Yusnaidi Md Yusof, A.K.M. Muzahidul Islam, Sabariah Baharun, Mohd Ghazali Hamza, and Noor Azurati Ahmad Universiti Teknologi Malaysia (UTM), Malaysia Kamarul Ariffin Abdul Basit Universiti Teknologi MARA (UiTM), Malaysia

Paper ID 58 Artificial Bee Colony based Optimal PMU Placement in Power System State Estimation

Mohammad Shoaib Shahriar, Farhan Ammar Ahmad, Ibrahim Omar Habiballah, Mohammed Afzal Asif, and Shagorika Mukherjee Department of Electrical Engineering, King Fahd University of Petroleum & Minerals (KFUPM), Dhahran, Saudi Arabia

PRINCIPAL TAMIZ UDDIN AHMED

BEST PAPER AWARD

Late-Tamiz Uddin Ahmed, was born in 1941 at Charatra village of Naria thana in Shariatpur District. He has completed his matriculation from Panditshar High School, Naria before moving to Chandpur Govt. College for his intermediate studies in the mid 1960s. In 1967, he has completed his MA in Economics from Dhaka University.



In 1968 Late-Tamiz Uddin Ahmed he has refused to accept offer from then West Pakistan to support the movement of the Independence of Bangladesh and has started his career as an academic at Purba Madaripur College. The same year he has taken over the position of Principal and lead the college for 34 years in a row. During his time, Purba Madaripur College was promoted to as Degree College and became the best college at Shariatpur District several times. Principal Tamiz Uddin Ahmed was also the best professor of Shariatpur for two times. In 2006, he has passed away.

In personal life, Late Principal Tamiz Uddin Ahmed was married to Mrs. Razia Ahmed (BA) and is a father of 5 children (2 son and 3 daughters). All of the 3 daughters are medical doctors whereas his eldest son is a Dr.Eng., working at UTM, Malaysia and the youngest son is an MBA (accounting), working at Invesco, Canada.

The 1st International Conference on Advanced Information & Communication Technology (ICAICT 2016) on May 16-17 is going to take place at Chittagong Independent University (CIU), Bangladesh. A total number of 117 papers have been submitted to ICAICT and 74 papers have been accepted for the final presentation. Out of the 74 papers only 3 papers will receive the prestigious **PRINCIPAL TAMIZ UDDIN AHMED BEST PAPER AWARD**.