Syed Ishtiaque Ahmed

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Objective

Making significant contribution in the area of Intelligent Systems which are capable of creating effective relationship between technology and human life.

Research Interests

- *Human-Computer Interaction, Artificial Intelligence*

Education

- **Cornell University**   NY, USA
  PhD in Information Science   *Aug. 2011 -*

- **Bangladesh University of Engineering and Technology (BUET)**   Dhaka, Bangladesh
  M.Sc. in Computer Science and Engineering   *Apr. 2009 - June 2011*
    - *Thesis*: *A Computer Mediated Approach for Improving Speaking Skills of the Autistic Children*
    - *Supervisor*: Prof. Md. Monirul Islam

- **Bangladesh University of Engineering and Technology (BUET)**   Dhaka, Bangladesh
  B.Sc. in Computer Science and Engineering   *Mar. 2004 - Dec. 2008*
    - *Thesis*: *Algorithms in Computational Geometry*
    - *Supervisor*: Prof. Masud Hasan

Teaching Experiences

- **Bangladesh University of Engineering and Technology (BUET)**   Dhaka, Bangladesh
  Lecturer, Computer Science and Engineering   *Sep. 2009 - Present*

- **United International University**   Dhaka, Bangladesh
  Lecturer, Computer Science and Engineering   *Feb. 2009 - Aug. 2009*

Research Experiences

- **Human-Technology Interaction Research Group**   CSE, BUET
  (March. 2010 - Present)
    - I have formed the *Human-Technology Interaction Research Group (HTI)* at BUET which is first of this kind in Bangladesh.

- **Pilot Project on Speech Development for the Autistic Children**
  (Jan. 2010)
    - In this pilot, I volunteered to work with a graduate student of the *Affective Computing Group* of *MIT Media Lab, USA*. It was supported by IEEE Gold Humanitarian Award, MIT Public Services Grant, One Laptop Per Child (OLPC), and *Autism Welfare Foundation (AWF)*, Dhaka.

- **Optimization Problems in Computational Geometry**
  (Feb. 2008 - October, 2009)
    - These works were done under the supervision of *Prof. Masud Hasan* at CSE, BUET.

Awards, Honors and Scholarships

2010 : **International Fulbright Science and Technology PhD Award** for the Fall of 2011.

2010 : **OpenStreetMap Travel Scholarship** for attending the *State of the Map (SotM)*, Spain.

2004 − 09 : **The Deans List Award** and **The University Scholarship** by BUET.

2004 − 08 : **Imdad Sitara Khan Scholarship** by *ISK Foundation*, USA.

2003 : **HSC Board Scholarship (Talent pool)** by *The Ministry of Education, Bangladesh*.

2003 : **Award of Merit** by *Notre Dame College* for the top academic performances.

Selected Publications

1. Affective Computing and E-Learning

Conference:

– M. A. Sharmin, M. M. Rahman, **S. I. Ahmed**, M. M. Rahman, S. M. Ferdous, *"Teaching intelligible speech to the autistic children by interactive computer games"*, in the proceedings of the *ACM Symposium on Applied Computing (ACM SAC)*, Taiwan, March 2011. [*to appear*]

– M. M. Rahman, S. M. Ferdous, **S. I. Ahmed**, *"Increasing intelligibility in the speech of the autistic children by an interactive computer game"*, in the proceedings of the *IEEE International Symposium on Multimedia (ISM)*, for the *International Workshop on Multimedia Technologies for E-Learning (MTEL)*, Taichung, Taiwan, IEEE Computer Society Press, December 2010. [*to appear*]

– M. R. Rahman, P. C. Roy, S. Naha, I. Ahmed, S. Samrose, M. M. Rahman, **S. I. Ahmed**, *A-Class: Intelligent Classroom Software for the Autistic Children* , in the proceedings of The IEEE Symposium on Computer and Informatics (ISCI) , Penang, Malaysia, March 2011, IEEE Computer Society Press

2. Systems and Services

Book Chapter:

– U. T. Rosi, **S. I. Ahmed**, *"Towards a robust trust model for ensuring security and privacy in VANET"*, in the book, *"Security of Self-Organizing Networks: MANET, WSN, WMN, VANET"*, Auerbach Publications, CRC Press, Taylor and Francis Group, USA, 2010. ISBN: 978-1-4398-1919-7.

Conference:

– S. Rahman, K. A. Akter, S. Hossain, A. Basak, **S. I. Ahmed**, *"Smart Blood Query: A Novel Mobile Phone Based Privacy-Aware Blood Donor Recruitment and Management System for Developing Regions"* , in the proceedings of the *International Conference on Advanced Information Networking and Applications (AINA)* for the *DMWPC* workshop, Biopolis, Singapore, March, 2011, IEEE Computer Society Press. [*to appear*]

– **S. I. Ahmed**, M. Rahman, M. Pathan, *"Policy requirements to ensure security in enterprise grid security systems"*, in the proceeding of the *International Conference on Computer Science and Its Applications (CSA)*, Jeju Island, Korea, IEEE, pp. 673-678, December 2009.

3. Algorithms in Computational Geometry

Journal:

- **S. I. Ahmed**, M. Hasan, M. A. Islam, *"Cutting a convex polyhedron out of a sphere"*, in *Graphs and Combinatorics*, Vol. 27(3), pp 307-319, Springer, 2011.

- **S. I. Ahmed**, M. A. Islam, M. Hasan, *"Cutting a cornered convex polygon out of a circle"*, in the *Journal of Computers (JCP)*, Vol. 5 (1), pp 4-11, Academy Publisher, 2010.

Conference:

- **S. I. Ahmed**, M. Hasan, A. Sopan, *"Vindictive Voronoi Games and Stabbing Delaunay Circles"*, in the proceedings of the *International Symposium on Voronoi Diagrams in Science and Engineering (ISVD)*, Quebec City, Canada, IEEE Computer Society Press, pp. 124-131, June 2010.

- **S. I. Ahmed**, Md. Mansurul Alam Bhuiyan, Masud Hasan, Ishita Kamal Khan, *"On finding a better position of a convex polygon inside a circle to minimize cutting cost"*, in the proceedings of the *International Workshop on Algorithms and Computation (WALCOM)*, Dhaka, Bangladesh, Lecture Notes in Computer Science (LNCS), Vol. 5942, Springer, pp. 252-262, February 2010.

- **S. I. Ahmed**, M. Hasan, M. A. Islam, *"Cutting a convex polyhedron out of a sphere"*, in the proceedings of the *Japan Conference on Computational Geometry and Graphs (JCCGG)*, Ishikawa, Kanazawa, Japan, pp. 127-128, November 2009.

Computer Skills

- **Programming Languages:** C/C++, Java, C#, ASP .NET, Visual Basic, Assembly Language (Intel 8086, 8051), Prolog, SQL, PL/SQL, VHDL.

- **Scripting Languages:** Shell Script, HTML, LaTeX.

- **Application Software and Tools:** Matlab, Oracle, MySQL, Quartus, LEX, YACC, OpenGL, Microsoft Visio, Microwind, NACHOS.

- **Operating Systems:** variants of LINUX, Windows.

Trainings and Certificaions

2010 : **Teachers' Appreciation Workshop**, by Department of Continuing Education, BUET.

2009 : **Upper Intermediate English Language Course** from *British Council.*

1995 − 1997 : Course on **Recitation and Acting** at *Bangladesh Children Academy.*

References

- **Dr. Masud Hasan**
  Associate Professor, Department of CSE, BUET.
  Email: masudhasan@cse.buet.ac.bd

- **Dr. Md. Monirul Islam**
  Professor and Head, Department of CSE, BUET.
  Email: mdmonirulislam@cse.buet.ac.bd

- **Dr. M Kaykobad**
  Professor, Department of CSE, BUET.
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