

Program of WALCOM 2010

February 9, 2010	Venue : New Academic Building, West Palashi, BUET
19:00 – 21:30	Registration and Reception
February 10, 2010	
8:30 – 9:30	Registration Venue : BUET Auditorium
9:30 – 10:35	Inaugural Session Venue : BUET Auditorium Chair: Md. Saidur Rahman
9:30 – 9:35	Recitation from Holy Quran
9:35 – 9:40	Welcome Address Md. Saidur Rahman (PC Co-chair, WALCOM 2010)
9:40 – 9:45	Greetings From BAS Naiyyum Choudhury (Secretary, BAS)
9:45 – 9:50	Greetings from BUET M. Habibur Rahman (Pro-Vice-Chancellor, BUET)
9:50 – 9:55	Message from Steering Committee M. Kaykobad (Convenor, Steering Committee, WALCOM and Organizing Co-chair, WALCOM 2010)
9:55 – 10:05	WALCOM 2010 Program Committee Activities Satoshi Fujita (PC Co-chair, WALCOM 2010)
10:05 – 10:10	Address of Special Guest A. M. M. Safiullah (Vice-Chancellor, BUET)
10:10 – 10:15	Address of Special Guest M. Shamsher Ali (President, BAS and Vice-Chancellor, Southeast University)
10:15 – 10:25	Address of Chief Guest Yeafesh Osman (State Minister, Ministry of Science and Information & Communication Technology, The People's Republic of Bangladesh)
10:25 – 10:35	Vote of Thanks Md. Monirul Islam (Head, Dept. of CSE, BUET and Organizing Co-chair, WALCOM 2010)
10:35 – 11:05	Refreshment
11:05 – 11:30	Change of Venue to IAC, New Academic Building, BUET
11:30 – 12:20	Invited Talk Chair: M. Kaykobad <i>János Pach, Crossings between Curves with Many Tangencies</i>

12:20 – 13:10	Invited Talk Chair: Subhas C. Nandy Tetsuo Asano, <i>Constant-Work-Space Algorithm for a Shortest Path in a Simple Polygon</i>
13:10 – 15:00	Lunch Break
15:00 – 16:15	Graph Drawing Chair: Giuseppe Liotta Xiao Zhou, Takashi Hikino, and Takao Nishizeki, <i>Small Grid Drawings of Planar Graphs with Balanced Bipartition</i> Carla Binucci, Emilio Di Giacomo, Walter Didimo, and Aimal Rextin, <i>Switch-Regular Upward Planar Embeddings of Trees</i> Christian Bachmaier, Franz J. Brandenburg, Wolfgang Brunner, and Ferdinand Hübner, <i>A Global k-Level Crossing Reduction Algorithm</i>
16:15 – 17:00	Tea Break
17:00 – 18:15	Computational Geometry Chair: Subir Kumar Ghosh Binay Bhattacharya, Arijit Bishnu, Otfried Cheong, Sandip Das, Arindam Karmakar, and Jack Snoeyink, <i>Computation of Non-dominated Points Using Compact Voronoi Diagrams</i> Syed Ishtiaque Ahmed, Masud Hasan, and Md. Ariful Islam, <i>Cutting a Convex Polyhedron Out of a Sphere</i> Arijit Bishnu, Sandip Das, Subhas C. Nandy, and Bhargab B. Bhattacharya, <i>A Simple Algorithm for Approximate Partial Point Set Pattern Matching under Rigid Motion</i>
18:15 – 19:00	Business Meeting of Committee Members
20:00 – 21:30	Dinner
February 11, 2010	Venue : IAC, New Academic Building, BUET
9:30 – 10:45	Graph Algorithms I Chair: Rossella Petreschi Patrizio Angelini and Fabrizio Frati, <i>Acyclically 3-Colorable Planar Graphs</i> Masashi Kiyomi, Toshiki Saitoh, and Ryuhei Uehara, <i>Reconstruction Algorithm for Permutation Graphs</i> Kyriaki Ioannidou and Stavros D. Nikolopoulos, <i>Harmonious Coloring on Subclasses of Colinear Graphs</i>
10:45 – 11:10	Tea Break
11:10 – 12:00	Invited Talk Chair: Satoshi Fujita Subir Kumar Ghosh, <i>Approximation Algorithms for Art Gallery Problems in Polygons and Terrains</i>
12:00 – 13:15	Computational Biology and Strings Chair: Sandip Das Guillaume Blin, Sylvie Hamel, and Stéphane Vialette, <i>Comparing RNA Structures with Biologically Relevant Operations Cannot be Done without Strong Combinatorial</i>

	<p><i>Restrictions</i></p> <p>Jesun S. Firoz, Masud Hasan, Ashik Z. Khan, and M. Sohel Rahman, <i>The 1.375 Approximation Algorithm for Sorting by Transpositions Can Run in $O(n \log n)$ Time</i></p> <p>Saverio Caminiti and Rossella Petreschi, <i>Parallel Algorithms for Encoding and Decoding Blob Code</i></p>
13:15 – 15:00	Lunch Break
15:00 – 15:50	<p>Invited Talk Chair: Md. Saidur Rahman</p> <p>Giuseppe Liotta, <i>The Hamiltonian Augmentation Problem and Its Applications to Graph Drawing</i></p>
15:50 – 16:40	<p>Combinatorial Optimization Chair: Bhargab B. Bhattacharya</p> <p>Naoki Katoh and Shin-ichi Tanigawa, <i>A Rooted-forest Partition with Uniform Vertex Demand</i></p> <p>Etsuji Tomita, Yoichi Sutani, Takanori Higashi, Shinya Takahashi, and Mitsuo Wakatsuki, <i>A Simple and Faster Branch-and-Bound Algorithm for Finding a Maximum Clique</i></p>
16:40 – 17:00	Tea Break
17:00 – 18:15	<p>Graph Algorithms II Chair: Etsuji Tomita</p> <p>Ling-Ju Hung and Ton Kloks, <i>On Some Simple Widths</i></p> <p>Takeya Shigezumi, Yushi Uno, and Osamu Watanabe, <i>A New Model for a Scale-Free Hierarchical Structure of Isolated Cliques</i></p> <p>Mingyu Xiao, <i>A Simple and Fast Algorithm for Maximum Independent Set in 3-Degree Graphs</i></p>
18:15 – 19:00	Declaration of Next WALCOM
20:00 – 21:30	Workshop Dinner
February 12, 2010	Venue : IAC, New Academic Building, BUET
9:30 – 11:10	<p>Approximation Algorithms Chair: Tetsuo Asano</p> <p>Sandeep Sen and V. N. Muralidhara, <i>The Covert Set-Cover Problem with Application to Network Discovery</i></p> <p>Thirumala Reddy T V, Sai Krishna D, and Pandu Rangan C, <i>Variants of Spreading Messages</i></p> <p>Syed Ishtiaque Ahmed, Md. Mansurul Alam Bhuiyan, Masud Hasan, and Ishita Kamal Khan, <i>On Finding a Better Position of a Convex Polygon inside a Circle to Minimize the Cutting Cost</i></p> <p>Ming Xu, Liangyu Chen, Zhenbing Zeng, and Zhi-bin Li, <i>Real Root Isolation of Multi-Exponential Polynomials with Application</i></p>

11:10 – 11:30	Tea break
11:30 – 12:20	Parameterized Complexity Chair: Sandeep Sen Neeldhara Misra, Geevarghese Philip, Venkatesh Raman, Saket Saurabh, and Somnath Sikdar, <i>FPT Algorithms for Connected Feedback Vertex Set</i> Sai Krishna D, Thirumala Reddy T V, Sai Shashank B, and Pandu Rangan C, <i>Pathwidth and Searching in Parameterized Threshold Graphs</i>
12:20 – 12:40	Concluding Remarks
13:15 – 15:30	Lunch and Prayer
16:00 – 18:00	Visit to BASIS SoftExpro
18:30 – 21:30	Seminar and Dinner hosted by BASIS