

Curriculum Vitae

1. NAME : **DR. MD. SAIDUR RAHMAN**
2. Date of birth : 31 December 1966
3. Present position : Professor, Dept of Computer Science and Engineering,
BUET
4. Mailing Address : Department of Computer Science and Engineering
Bangladesh University of Engineering and Technology
Dhaka 1000, Bangladesh.
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5. Academic Qualifications:

Degree/ Examination	Institution (University/College/School /Department)	Year
<i>Ph.D.</i>	Dept. of System Information Sciences, Graduate School of Information Sciences, Tohoku University, Sendai 980-8579, Japan	1999
<i>M.Sc. (Master of Information Sciences)</i>	Dept. of System Information Sciences, Graduate School of Information Sciences, Tohoku University, Sendai 980-8579, Japan	1996
<i>M.Sc. Engg.</i>	Dept. of Computer Science & Engineering, Bangladesh University of Engineering & Technology (BUET), Dhaka 1000, Bangladesh	1992
<i>B.Sc. Engg.</i>	Dept. of Electrical & Electronic Engineering, Bangladesh University of Engineering & Technology (BUET), Dhaka 1000, Bangladesh	1989
<i>Higher Secondary Certificate (H.S.C.)</i>	Dhaka College, Dhaka, Bangladesh	1983
<i>Secondary School Certificate (S.S.C.)</i>	Santhia High School, Santhia, Pabna, Bangladesh	1981

6. Job Experiences (start from present):

Position	Organization	Duration
<i>Professor</i>	Dept. of Computer Science & Engineering (CSE), Bangladesh University of Engineering & Technology (BUET), Dhaka 1000, Bangladesh	16 October 2006 to date (Served as Head of the Dept. from 23 October 2007 to 23 October 2009)
<i>Associate Professor</i>	Dept. of CSE, BUET, Dhaka 1000, Bangladesh	27 August 2005 – 15 October 2006
<i>Associate Professor</i>	Dept. of System Information Sciences, Graduate School of Information Sciences, Tohoku University, Sendai 980-8579, Japan	01 April 2003 – 16 July 2004 (within the extra-ordinary leave from BUET from 23 November 2001 to 16 July 2004)
<i>Special Foreign Researcher (under JSPS Postdoctoral Fellowship)</i>	Dept. of System Information Sciences, Graduate School of Information Sciences, Tohoku University, Sendai 980-8579, Japan	27 November 2001 – 31 March 2003 (within the extra-ordinary leave mentioned above)
<i>Assistant Professor</i>	Dept. of CSE, BUET, Dhaka 1000, Bangladesh	11 April 1999 – 26 August 2005 (on leave from 23 November 2001 to 16 July 2004, on leave from 22 December 2004 to 11 March 2005)
<i>Lecturer</i>	Dept. of CSE, BUET, Dhaka 1000, Bangladesh	29 April 1991 – 10 April 1999 (on leave from 01 April 1993 to 31 March 1999)
<i>Assistant Engineer</i>	Institute of Computer Science, Atomic Energy Research Establishment, Bangladesh Atomic Energy Commission, Savar, Dhaka, Bangladesh	28 March 1990 – 28 April 1991

7. Administrative Responsibilities in BUET

Position	Duration
Director, Institutional Quality Assurance Cell (IQAC)	August 10 to to date
Registrar, BUET	June 11, 2017 to May 8, 2018 August 11, 2020 to September 1, 2020
Head Self-Assessment Committee of CSE	2016- 2017
Information Access Center In Charge	2012-2014
Head of the Department, Dept. of CSE	October 23, 2007 to October 23, 2009
Assistant Provost, Ahsanullah Hall	9 April 2005 to 31 March 2007
Assistant Provost, Suhrawardy Hall	1 January 2001 – 21 November 2001

8. Research Visits

Position	Organization	Duration
Visiting Professor	Tohoku University, Japan	July 09 2018 to July 18, 2018
Visiting Professor	Tohoku University, Japan	June 29, 2017 to July 5, 2017
Visiting Scholar	Kwansei Gakuin University, Japan	January 6, 2017 to March 28, 2017
Visiting Scholar	Kyoto University, Japan	December 15, 2013 to February 12, 2014
Visiting Researcher	University of Dortmund, Germany	September 14, 2010 to September 21, 2010
Visiting Researcher	KAIST, Korea	April 15, 2010 to April 23, 2010
Visiting Researcher	Tohoku University, Japan	February 21, 2010 to March 8, 2010
Visiting Researcher	Tohoku University, Japan	December 10, 2007 to January 12, 2008
Visiting Researcher	Tohoku University, Japan	December 23, 2004 to March 11, 2005

9. Membership/Fellowship of Learned Societies:

- *Fellow*, Bangladesh Academy of Sciences.
- *Fellow* (F-7169), The Institution of Engineers, Bangladesh.
- *Fellow* (F-160), Bangladesh Computer Society.
- *Senior Member* (M-40294799), IEEE

10. Professional Awards / Honours Received:

- **Awards**
 - WALCOM 2018 Best Paper Award
 - University Grants Commission Award 2004
 - FUNAI Information Technology Award for Young Researchers 2004
 - Bangladesh Academy of Sciences Gold Medal Award for Junior Scientists 2003.
- **Scholarship and Fellowship**
 - Received *JSPS Postdoctoral Fellowship* from November 2001 to March 2003. (Research Title: *Graph Drawing Algorithms*.)
 - Received *MONBUSHO Scholarship* from April 1993 to March 1999.
 - Received merit scholarships in all levels of education in Bangladesh.

11. Research Interest:

Established a research group together with graduate and undergraduate students of the department of CSE and arranging a research presentation session every week. The fields of interest of this group are:

- Graph Algorithms
- Graph Drawing Algorithms
- VLSI Layout Algorithms

- Computational Geometry
- Generating Problems
- Internet Routing Protocols
- Bioinformatics
- Complex Network Analysis
- Contemporary Algorithms

12. Research Grants Received:

- Received a grant of Taka 8,80,000 from Ministry of Science and Information & Communication Technology, Government Bangladesh for the project *Facility Upgradation for Sustainable Research on Graph Drawing and Information Visualization* in fiscal year 2009-2010.
- Received grant-in-aid for scientific research (Tokubetsu Kenkyuin Shorei-hi) from JSPS for doing research on *graph drawing algorithms* as follows:
 - **400,000 yen in 2001**
 - **900,000 yen in 2002**
 - Received a grant of 270,000 yen from Telecommunication Advancement Foundation in 2003.

13. Professional Work at National and International Levels:

A. Program Committee Member

- a) 5th International Conference on Computer and Information Technology (ICCIT 2002), held in Dhaka, Bangladesh
- b) 11th International Symposium on Graph Drawing (GD 2003), held in Perugia, Italy.
- c) 13th International Symposium on Graph Drawing (GD 2005), held in Limerick, Ireland.
- d) 17th Annual International Symposium on Algorithms and Computation (ISAAC 2006), held in Kolkata, India.
- e) 1st Workshop on Algorithms and Computation (WALCOM 2007) held in Dhaka, Bangladesh – Program Co-chair
- f) 15th International Symposium on Graph Drawing (GD 2007), held in Sydney, Australia.
- g) 2nd Workshop on Algorithms and Computation (WALCOM 2008) held in Dhaka, Bangladesh – Program Co-chair
- h) 3rd Workshop on Algorithms and Computation (WALCOM 2009) held in Kolkata, India.
- i) 4nd Workshop on Algorithms and Computation (WALCOM 2010) held in Dhaka, Bangladesh – Program Co-chair
- j) 3rd Annual Meeting of Asian Association for Algorithms and Computation (AAAC 2010), held in Pohang, Korea.
- k) 4th Annual Meeting of Asian Association for Algorithms and Computation (AAAC 2011), held in Hsinchu, Taiwan.
- l) 22nd Annual International Symposium on Algorithms and Computation (ISAAC 2011), held in Yokohama, Japan.
- m) 5th Annual Meeting of Asian Association for Algorithms and Computation (AAAC 2012), held in Shanghai, China.
- n) 5th IEEE Pacific Visualization Symposium (PacificVis 2012), held in Songdo, Korea.
- o) 6th Workshop on Algorithms and Computation (WALCOM 2012) held in Dhaka, Bangladesh – Program Co-chair
- p) 7th Workshop on Algorithms and Computation (WALCOM 2013) held in Kharagpur, India
- q) 9th Workshop on Algorithms and Computation (WALCOM 2015) held in Dhaka, Bangladesh
- r) 10th Workshop on Algorithms and Computation (WALCOM 2016) held in Kathmandu, Nepal
- s) 27th International Symposium on Algorithms and Computation (ISAAC 2016) to be held in Sydney, Australia.
- t) 11th International Conference and Workshops on Algorithms and Computations (WALCOM 2017) held in Hsinchu, Taiwan – Program Co-chair
- u) 11th International Frontiers of Algorithmics Workshop (FAW2017) to be held in Chengdu, China.
- v) 12th International Conference and Workshops on Algorithms and Computations (WALCOM 2018) held in Dhaka, Bangladesh
- w) 13th International Conference and Workshops on Algorithms and Computations (WALCOM 2019) held in Guwahati, India

B. Editor

AKCE International Journal of Graphs and Combinatorics
Mathematical Foundations of Computing

C. Guest Editor

Journal of Graph Algorithms and Applications
Journal of Combinatorial Optimization
Theoretical Computer Science
Discrete Mathematics, Algorithms and Applications

C. Served as a Referee

i Journal

ACM Transactions on Algorithms, Journal of Discrete Algorithms, Theoretical Computer Science, Discrete Mathematics, Algorithms and Applications, SIAM Journal on Computing, Algorithmica, Journal of Graph Algorithms and Applications, Discrete Mathematics, International Journal of Foundations of Computer Science, Computational Geometry: Theory and Applications, Information Processing Letters, IEICE Trans. Fundamentals, Journal of the Institution of Engineers, Bangladesh

ii Conference

ICCIT 1998, GD 1999, WADS 2001, COCOON 2002, ISAAC 2002, COCOON 2003, COCOON 2004, GD 2004, ICCIT 2004, WG 2005, ISAAC 2005, IEEE PacificVis 2008, Graph Drawing 2008, Graph Drawing 2011, ISAAC 2011, SoCG 2011, MFCS 2012, ICECE 2012, SoCG 2012, SoCG 2013, FCT 2013, COCOON 2014, WG 2017, GD 2018, COCOON 2020

14. Participation in National Commissions, Committees, etc. commissioned by the Government of Bangladesh and Govt. Institution / Organizations:

- **2017-2019:** *Trusty Board Member*, Science and Technology Development Trust, Bangladesh National Museum of Science and Technology, Ministry of Science and Technology, Bangladesh.
- **2007 to 2009:** *Council Member*, Bangladesh Computer Council.
- **2007 to 2009:** *Member*, ICT Taskforce, Government of Bangladesh.
- **2001:** *Chairman*, Information Technology Branch Committee for establishing national standards of IT goods, Bangladesh Standards and Testing Institution (BSTI).

15. Supervision of Thesis/Design Project at Undergraduate Level

Supervised more than 120 undergraduate students in the dept. of CSE, BUET in the field of Graph Drawing, Generating Problems, VLSI Layout Algorithms, Electronic Voting, Bioinformatics, Network Routing, Complex Networks, etc.
Currently supervising 6 undergraduate students.

16. Supervision of Graduate Research Work:

Level (Masters/ Ph.D.)	Name of Students	Thesis Title	Year
<i>Ph. D.</i>	Shaheena Sultana	Efficient Algorithms for Geometric Representation of Graphs	2018
<i>Ph. D.</i>	Md. Iqbal Hossain	Straight-line drawings of planar graphs with constraints	2015
<i>Ph. D.</i>	Md. Rezaul Karim	Straight-line Grid Drawings of Planar Graphs with Sub-Quadratic Area	2008
<i>M.Sc. Engg</i>	Shareef Ahmed	Algorithms for r -Gathering and r -Gather clustering Problems	2019
<i>M.Sc. Engg</i>	Md. Khaled Hussain	Algorithms for Polyline Drawings of Plane 3-Trees	2019
<i>M.Sc. Engg</i>	Md. Mizanur Rahman	Algorithms for Constructing Multi-Labeled Phylogenetic Trees from Quartets with Fewer Leaf Duplications	2017
<i>M.Sc. Engg</i>	Abu Reyan Ahmed	Online Algorithms for Facility Assignment Problem	2016
<i>M.Sc. Engg</i>	Mohammad Al-Mahmud	Algorithms for Minimum Length Sliding Camera Problem	2016
<i>M.Sc. Engg.</i>	Shafique Ahmed Faruque	Development of Graph Theoretic Models for Business Promotion on Social Networks	2013
<i>M.Sc. Engg.</i>	Aftab Hussain	Software Restructuring using Hierarchical Clustering	2012
<i>M.Sc. Engg.</i>	Md. Manzurul Hasan	Box-rectangular Drawings of Planar Graphs	2012
<i>M.Sc. Engg.</i>	Shaheena Sultana	Algorithms for Bar 1-visibility Representations of Graphs	2011
<i>M.Sc. Engg.</i>	Md. Emran Chowdhury	Point-set Embeddings of Planar Graphs with Fewer Bends	2011
<i>M.Sc. Engg.</i>	Muhammad Jawaherul Alam	Minimum-Layer Drawings of Trees	2010
<i>M.Sc. Engg.</i>	Md. Shamsuzzoha Bayzid	On Pairwise Compatibility Graphs	2010
<i>M.Sc. Engg.</i>	Muhammad Abdullah Adnan	Minimum Segment Drawings of Outerplanar Graphs	2008
<i>M.Sc. Engg.</i>	Abul Hasan Samee	Minimum Segment Drawings of Series-Parallel Graphs With the Maximum Degree Three	2008
<i>M.Sc. Engg.</i>	Khaled Mahmud Shahriar	Bi-Chromatic Point Set Embeddings of Trees with Fewer Bends	2008
<i>M.Sc. Engg.</i>	Md. Shahidul Islam	A Simple Linear Algorithm For No-Bend Orthogonal Drawings of Series-Parallel Graphs	2007
<i>M.Sc. Engg.</i>	Abu Hasnat Mohammad Ashfak Habib	1-Bend Orthogonal Drawings of Triconnected Planar 4-Graphs	2007
<i>M.Sc. Engg.</i>	Tanveer Awal	Resource Partitioning of Planar Graphs	2007
<i>M.Sc. Engg.</i>	Utpal Kumar Paul	On st -Orientations and st -numbering of planar graphs	2007
<i>M.Sc. Engg.</i>	Md. Mostofa Ali Patwary	Hardness of Finding Minimum Face-Spanning Subgraphs of Plane Graphs	2006

<i>M.Sc. Engg.</i>	Mohammad Tanvir Irfan	Computing Beta-Drawings of 2-Outerplane Graphs	2006
<i>M.Sc. Engg.</i>	Mohammad Tanvir Parvez	Efficient Algorithms for Generating All Triangulations of Plane Graphs	2006
<i>M.Sc. Engg.</i>	Shubhashis Ghosh	Rectangular Drawings of Planar Graphs	2001
<i>M.Sc. Engg.</i>	Mahmuda Naznin	Orthogonal Drawings of Plane Graphs	2000
<p>Currently supervising 2 Ph. D. students and 4 M.Sc. Engg. students in the dept. of CSE, BUET.</p> <p>Supervised Shin-ichiro Kawano, a Ph. D. student of Gunma University, Japan, for his Ph. D. Internship Research from July 30, 2005 to October 27, 2005 in BUET, Bangladesh.</p> <p>Served as a research mentor of three graduate students in Nishizeki Laboratory, Graduate School of Information Sciences, Tohoku University, Japan.</p>			

17. Contribution to Research and Development Projects:

- 2012-1014: Subproject Manager, HEQEP Subproject CP # 2082: *Enhancement of Graduate Studies Facilities for the Department of CSE, BUET*, UGC, Bangladesh.
- 2010-2011: Project Director, *Minimum-area Drawings of Planar Graphs*, CASR, BUET.
- 2009-2010: Project Director, *Facility Upgradation for Sustainable Research on Graph Drawing and Information Visualization*, Supported by Ministry of Science and Information & Communication Technology, Government Bangladesh
- 2008-2009: Project Director, *Layered Drawings of Planar Graphs*, CASR, BUET.

18. Contribution to the Department other than Teaching and Research:

a) Curriculum Improvement:

- 2012:** Designed a new course entitled “Advanced Algorithmic Graph Theory (CSE 6410)” which has been approved by the Academic Council of BUET.
- 2005:** Designed a new course entitled “Graph Drawing (CSE 6405)” which has been approved by the Academic Council of BUET.
- 2001:** Designed a new course entitled “VLSI Layout Algorithms (CSE 6404)” which has been approved by the Academic Council of BUET.

b) Laboratory Development:

2012-2014: As the Subproject Manager of a HEQEP subproject established a graduate complex (a graduate laboratory, a graduate seminar room, a graduate class room and a discussion lobby) in the department.

2009-2010: Established Graph Drawing and Information Visualization Lab in CSE dept. BUET under the project “Facility Upgradation for Sustainable Research on Graph Drawing and Information Visualization” supported by Ministry of Science and Information & Communication Technology, Govt. of Bangladesh.

2007-2009: Played key role in establishing VLSI Design Automation Lab and Wireless Networking Lab, AI and Robotics Lab in the department of CSE.

19. Names and Addresses of References:

- 1) *Prof. Takao Nishizeki, Ph D*
Professor Emeritus
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Tohoku University
Sendai 980-8579, Japan
Email: nishizekit@gmail.com

- (2) *Prof. Shin-ichi Nakano, Ph D*
Department of Computer Science
Faculty of Engineering
Gunma University
Kiryu 376-8515, Japan
Email: nakano@cs.gunma-u.ac.jp

- (3) *Prof. M. Kaykobad, Ph D*
Department of Computer Science and Engineering
Bangladesh University of Engineering and Technology (BUET)
Dhaka-1000, Bangladesh
Email: kaykobad@cse.buet.ac.bd

20. LIST OF PUBLICATIONS

a) Text books

1. Md. Saidur Rahman, Basic Graph Theory, Undergraduate Topics in Computer Science, Springer, 2017 (**Number of downloads** until October 29, 2020: **39k**, **Citation count** in Google Scholar on October 29, 2020: **47**.)
2. Takao Nishizeki and Md. Saidur Rahman, *Planar Graph Drawing*, World Scientific, Singapore, 2004 (a textbook for advanced undergraduate and graduate level). (The book appeared in the **bestseller** list of World Scientific in August 2005. **Citation count** in Google Scholar on October 29, 2020: **283**.)

b) Contributions in published books

1. Takao Nishizeki and Md. Saidur Rahman, *Rectangular drawing algorithms*, (Ed.) Roberto Tamassia, Handbook of Graph Drawing and Visualization, CRC Press, 2013.
2. Md. Saidur Rahman, Convex Graph Drawing, Encyclopedia of Algorithms, Springer, Article, D: 430438, Chapter ID: 652, 2015.
3. Md. Saidur Rahman and Takao Nishizeki, Graph drawing, Chapter 23 of Handbook of Graph Theory, Combinatorial Optimization, and Algorithms, CRC Press, 2015.

c) Edited Books

1. Sheung-Hung Poon, Md. Saidur Rahman and Hsu-Chun Yen (eds.), Proc. of WALCOM 2017, Lecture Notes in Computer Science, 10167, Springer 2017.
2. Md. Saidur Rahman and Shin-ichi Nakano (eds.), *WALCOM: Algorithms and Computation, Proc. of WALCOM 2012*, Lecture Notes in Computer Science, 7157, Springer, 2012.
3. Md. Saidur Rahman and Satoshi Fujita (eds.), *WALCOM: Algorithms and Computation, Proc. of WALCOM 2010*, Lecture Notes in Computer Science, 5942, Springer, 2010.
4. Shin-ichi Nakano, Md. Saidur Rahman (eds.), *WALCOM: Algorithms and Computation, Proc. of WALCOM 2008*, Lecture Notes in Computer Science, 4921, Springer, 2008.
5. M. Kaykobad and Md. Saidur Rahman (eds.), *WALCOM 2007*, Proceedings of Workshop on Algorithms and Computation, Bangladesh Academy of Sciences, 2007.

d) Journal Publications:

1. Md. Saidur Rahman, S. Ahmed, *A survey on pairwise compatibility graphs*, AKCE International Journal of Graphs and Combinatorics, 2020.
2. Abu Reyan Ahmed, Md. Saidur Rahman, Stephen G. Kobourov, *Online facility assignment*,

- Theoretical Computer Science, 806, pp. 455-467, 2020.
3. Katsuhisa Yamanaka, Md. Saidur Rahman, Shin-Ichi Nakano, *Enumerating Floorplans with Columns*, IEICE Transactions 101-A(9), pp. 1392-1397, 2018.
 4. Shaheena Sultana and Md. Saidur Rahman, *Realizability of graphs as triangle cover contact graphs*, Theoretical Computer Science, 720, pp. 24-35, 2018.
 5. Shaheena Sultana, Md. Iqbal Hossain, Md. Saidur Rahman, Nazmun Nessa Moon, Tahsina Hashem, *On triangle cover contact graphs*, Computational Geometry: Theory and Applications, 69, pp. 31-38, 2018.
 6. . Iqbal Hossain, Sammi Abida Salma, Md. Saidur Rahman and Debajyoti Mondal, *A necessary condition and a sufficient condition for pairwise compatibility graphs*, Journal of Graph Algorithms and Applications, 21(3), pp. 341-352, 2017.
 7. Safique Ahmed Faruque, Mossa. Anisa Khatun and Md. Saidur Rahman, *Modelling direct marketing campaign on social network*, International Journal of Business Information Systems, 22(4), pp. 422-435, 2016.
 8. Md. Iqbal Hossain and Md. Saidur Rahman, *Good spanning trees in graph drawing*, Theoretical Computer Science, 607, pp. 149-165, 2015.
 9. Md. Iqbal Hossain, and Md. Saidur Rahman, *Straight-Line Monotone Grid Drawings of Series-Parallel Graphs*, *Discrete Mathematics, Algorithms and Applications*, World Scientific, 2015.
 10. Stephane Durocher, Debajyoti Mondal, Md. Saidur Rahman, *On graphs that are not PCGs*, Theoretical Computer Science, 571, pp. 78-87, 2015.
 11. Md. Manzurul Hasan, Md. Saidur Rahman, and Md. Rezaul Karim, *Box-rectangular drawings of planar graphs*, Journal of Graph Algorithms and Applications (JGAA), 17(6), pp. 629-646, 2013.
 12. Debajyoti Mondal, Rahnuma Islam Nishat, Md. Saidur Rahman, and Sue Whitesides, *Acyclic coloring with few division vertices*, Journal of Discrete Algorithms, 23, pp. 42-53, 2013.
 13. Md. Iqbal Hossain, Debajyoti Mondal, Md. Saidur Rahman, and Sammi Abida Salma, *Universal line-sets for drawing planar 3-trees*, Journal of Graph Algorithms and Applications (JGAA), 17(2), pp. 59-79, 2013.
 14. Sammi Abida Salma, Md. Saidur Rahman, and Md. Iqbal Hossain, *Triangle-free outerplanar 3-graphs are pairwise compatibility graphs*, Journal of Graph Algorithms and Applications (JGAA), 17(2), pp. 81-102, 2013.
 15. Debajyoti Mondal, Sudip Biswas, Rahnuma Islam Nishat, and Md. Saidur Rahman, *minimum-segment convex drawings of 3-connected cubic plane graphs*, Journal of Combinatorial Optimization 25(3), pp. 460-480, 2013.
 16. Debajyoti Mondal, Rahnuma Islam Nishat, Sue Whitesides, Md. Saidur Rahman, *Acyclic colorings of graph subdivisions revisited*, Journal of Discrete Algorithms, 16 pp. 90-103, 2012.
 17. Rahnuma Islam Nishat, Debajyoti Mondal and Md. Saidur Rahman, *Point-Set Embeddings of Plane 3-Trees*, Computational Geometry: Theory and Application, 45, pp. 88-98, 2012.
 18. Tanveer Awal and Md. Saidur Rahman, *A linear algorithm for resource-partitioning four connected planar graphs*, AKCE International Journal of Graphs and Combinatorics, 9(1), pp.11-20, 2012.
 19. Rahnuma Islam Nishat, Debajyoti Mondal and Md. Saidur Rahman, *Visibility Drawings of Plane 3-Trees with Minimum Area*. Mathematics in Computer Science, 5(1), pp. 119-132, 2011.
 20. Md. Rezaul Karim, Md. Jawaherul Alam and Md. Saidur Rahman, *Straight-Line Grid Drawings of Label-Constrained Outerplanar Graphs with $O(n \log n)$ Area*, Journal of Graph

- Algorithms and Applications, 15(3), pp. 437-456, 2011.
21. Mohammad Tanvir Parvez, Md. Saidur Rahman and Shin-ichi Nakano, *Generating All Triangulations of Plane Graphs*, Journal of Graph Algorithms and Applications, 15(3), pp. 457-482, 2011.
 22. Debajyoti Mondal, Rahnuma Islam Nishat, Md. Saidur Rahman and Muhammad Jawaherul Alam, *Minimum-area drawings of plane 3-Trees*, Journal of Graph Algorithms and Applications, 15(2), pp. 177-204, 2011.
 23. Muhammad Nur Yanhaona, Md. Shamsuzzoha Bayzid and Md. Saidur Rahman, *Discovering Pairwise Compatibility Graphs*, Discrete Mathematics, Algorithms and Applications (DMAA), 2(4), pp. 607-623, 2010.
 24. Md. Mostofa Ali Patwary and Md. Saidur Rahman, *Minimum Face-Spanning Subgraphs of Plane Graphs*, AKCE International Journal of Graphs and Combinatorics, 7(2), pp.133-150, 2010
 25. Muhammad Jawaherul Alam, Md. Abul Hassan Samee, Mashfiqui Rabbi, Md. Saidur Rahman, *Minimum-layer upward drawings of trees*, Journal of Graph Algorithms and Applications, 14(2), pp. 245-267, 2010.
 26. Muhammad Jawaherul Alam, Mashfiqui Rabbi, Md. Saidur Rahman and Md. Rezaul Karim, *Upright drawings of graphs on three layers*, J. Appl. Math. & Informatics, 28(5-6), pp. 1347-1358, 2010.
 27. Tanveer Awal and Md. Saidur Rahman, *A Linear algorithm for resource tripartitioning triconnected planar graphs*, INFOCOMP Journal of Computer Science, 9(2), p. 39–48, 2010.
 28. Md. Rezaul Karim and Md. Saidur Rahman, *On a class of planar graphs with straight-line grid drawings on linear area*, Journal of Graph Algorithms and Applications, 13(2), pp. 153-177, 2009.
 29. Md. Saidur Rahman, Kazuyuki Miura and Takao Nishizeki, *Octagonal drawings of plane graphs with prescribed face areas*, Computational Geometry: Theory and Application, 42, pp. 214-230, 2009.
 30. Md. Nur Yanhaona, K. S. M. Tozammel Hossain and Md. Saidur Rahman, *Pairwise compatibility graphs*, Journal of Applied Mathematics and Computing, 30, pp. 479-503, 2009.
 31. Md. Rezaul Karim, Kaiser Md. Nahiduzzaman and Md. Saidur Rahman, *A Linear-Time Algorithm for k-Partitioning Doughnut Graphs*, INFOCOMP Journal of Computer Science, 8(1), pp. 8-13, 2009.
 32. Muhammad Abdullah Adnan and Md. Saidur Rahman, *Generating all distributions of objects to bins*, International Journal of Computer Mathematics, 86(3), pp. 383 – 392, 2009.
 33. Muhammad Abdullah Adnan and Md. Saidur Rahman, *Distribution of distinguishable objects to bins: generating all distributions*, International Journal of Computer Mathematics, 84(7), pp. 953-965, 2007.
 34. Muhammad Abdullah Adnan and Md. Saidur Rahma, *Efficient generation of evolutionary trees*, INFOCOMP Journal of Computer Science, 6(1), pp. 30-36, 2007.
 35. Md. Saidur Rahman, Noritsugu Egi and Takao Nishizeki, *No-bend orthogonal drawings of subdivisions of planar triconnected cubic graphs*, IEICE Transactions on Information and Systems, E88-D(1), pp. 23-30, 2005.
 36. Md. Saidur Rahman, Takao Nishizeki and Shubhashis Ghosh, *Rectangular drawings of planar graphs*, Journal of Algorithms, 50, pp. 62-78, 2004.
 37. Mohammad Mursalin Akon, Shah Asaduzzaman, Md. Saidur Rahman and Mitsuji Matsumoto, *Proposal for st-routing protocol*, Telecommunication Systems, 25(3, 4), pp.

287-298, 2004.

38. Takao Nishizeki, Kazuyuki Miura and Md. Saidur Rahman, *Algorithms for drawing plane graphs*, IEICE Transactions on Information and Systems, E87-D(2), pp. 281-289, 2004.
39. Md. Saidur Rahman, Takao Nishizeki and Mahmuda Naznin, *Orthogonal drawings of plane graphs without bends*, Journal of Graph Algorithms and Applications, 7(4), pp. 335-362, 2003.
40. Masud Hasan, Md. Saidur Rahman and Takao Nishizeki, *A linear algorithm for compact box-drawing of trees*, Networks, 42(3), pp. 160-164, 2003.
41. Md. Saidur Rahman, Shin-ichi Nakano and Takao Nishizeki, *Rectangular drawings of plane graphs without designated corners*, Computational Geometry: Theory and Applications, 21(3), pp. 121-138, 2002.
42. Md. Saidur Rahman, Shin-ichi Nakano and Takao Nishizeki, *Box-rectangular drawings of plane graphs*, Journal of Algorithms, 37, pp. 363-398, 2000.
43. Md. Saidur Rahman, Shin-ichi Nakano and Takao Nishizeki, *A linear algorithm for bend-optimal orthogonal drawings of triconnected cubic plane graphs*, Journal of Graph Algorithms and Applications, 3(4), pp. 31-62, 1999.
44. Md. Saidur Rahman, Shin-ichi Nakano and Takao Nishizeki, *Rectangular grid drawings of plane graphs*, Computational Geometry: Theory and Applications, 10(3), pp. 203-220, 1998.
45. Shin-ichi Nakano, Md. Saidur Rahman and Takao Nishizeki, *A linear-time algorithm for four-partitioning four-connected planar graphs*, Information Processing Letters, 62, pp. 315-322, 1997.
46. Md. Saidur Rahman and Md. Shamsul Alam, *Token access protocols in multiple bus local computer networks*, Journal of Bangladesh Computer Society, 6(1), pp. 36-44, 1993.
47. Md. Saidur Rahman and Md. Shamsul Alam, *Study of explicit and implicit token passing protocols in multiple bus LAN*, Journal of the Institution of Engineers, Bangladesh, 21(4), pp. 87-95, 1993.

e) Conferences (*national and international conferences*):

i) Proceedings:

1. Md. Saidur Rahman, Md. Rezaul Karim, *Drawing Planar Graphs*, WALCOM 2020, LNCS, 12049, Springer, 3-14, 2020.
2. Shareef Ahmed, Shin-ichi Nakano, Md. Saidur Rahman, *r-Gatherings on a Star*, Proc. of WALCOM 2019, Lecture Notes in Computer Science, 11355, Springer, pp. 31-42, 2019.
3. Abu Reyan Ahmed, Md. Saidur Rahman, Stephen G. Kobourov, *Online facility assignment*, Proc. of WALCOM 2018, Lecture Notes in Computer Science, 10755, Springer, pp. 156-168, 2018.
4. Shareef Ahmed and Md. Saidur Rahman, *Multi-interval pairwise compatibility graphs*, Proc. of TAMC 2017, Lecture Notes in Computer Science, 10185, Springer, pp. 71-84, 2017.
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ii) Presentations:

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2. Md. Saidur Rahman, *Graphs in Bioinformatics*, ICCA 2020, Dhaka, 2020 (Invited Talk).
3. Md. Saidur Rahman, *On Connectivity and Realizability of Triangle Cover Contact Graphs*, ICCGANT 2019, Jember, Indonesia, 2019 (Invited Talk).
4. Md. Saidur Rahman, *Pairwise Compatibility Graphs*, Invited Talk, International Conference on Theoretical Computer Science and Discrete Mathematics, Chennai, India, 2018 (Invited Talk).
5. Md. Saidur Rahman, *Pairwise Compatibility Graphs*, Tohoku University, Japan, February, 2014 (Invited Talk).
6. Md. Saidur Rahman, *Pairwise Compatibility Graphs*, Kyoto University, Japan, January, 2014 (Invited Talk).
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8. Stephane Durocher, Debajyoti Mondal, and Md. Saidur Rahman, *On Graphs That Are Not PCGs*, Proceedings of WALCOM 2013, IIT, Kharagpur, India, February, 2013.
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10. Md. Saidur Rahman, *Pairwise Compatibility Graphs*, ISI Kolkata, India, February, 2011.
11. Debajyoti Mondal, Jawaherul Alam and Md. Saidur Rahman. *Minimum-layer drawings of trees*, WALCOM 2011, IIT, Delhi, India, February, 2011.
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13. Md. Saidur Rahman, *Drawing planar graphs with small area*, KAIST, Korea, May 2010 (Invited Talk).
14. Rahnuma Islam Nishat, Debajyoti Mondal and Md. Saidur Rahman, *Point-Set Embeddings of Plane 3-Trees*, 3rd Annual Meeting of the Asian Association for Algorithms and Computation, POSTECH, Korea, May, 2010.
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f) Theses

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2. Md. Saidur Rahman, *A Study on Rectangular Drawing Algorithms for Planar Graphs*, M.Sc. Thesis, Tohoku University, 1996.
3. Md. Saidur Rahman, *Study of Token Passing Protocols for Multiple Bus Local Area Networks by Simulation*, M. Sc. Engg. Thesis, BUET, 1992.
4. Md. Saidur Rahman, *Computer Aided Evaluation of Voltage Transients in Power System Analysis*, B. Sc. Engg. Thesis, BUET, 1989.

g) H-index and Total Citation Number

H-index: 18

i10-index 31

Total Citation Number: 1306

The ***h-index*** is an index that attempts to measure both the productivity and impact of the published work of a scientist or scholar. The index is based on the set of the scientist's most cited papers and the number of citations that they have received in other publications. A scientist has index h if h of his/her N_p papers have at least h citations each, and the other $(N_p - h)$ papers have no more than h citations each. In other words, a scholar with an index of h has published h papers each of which has been cited in other papers at least h times.