

# Dr. Md. Musfique Anwar



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## Education

- 2014–2018 Ph.D., Computer Science and Software Engineering  
Faculty of Science, Engineering and Technology  
Swinburne University of Technology, Australia
- 2011–2013 Master of Informatics, Graduate School of Informatics  
Kyoto University, Japan  
Achieved Grade **A** in 6 subjects and Grade **S** in 3 subjects (A: 80–89%, S: 90–100%, rarely given)  
CGPA: **4.00 out of 4.00** (in corresponding 4-scale GPA system)
- 2003–2007 Bachelor of Science (B.Sc.) (Hons.) in Computer Science and Engineering  
Jahangirnagar University, Bangladesh  
CGPA: **3.92 out of 4.00** (Secured **2nd position** in the batch)

## Selected Honours and Awards

- [1] **Chancellor’s Research Scholarship** (CRS) from Swinburne University of Technology, Australia for PhD Program (2014-2018)
- [2] Tuition Fee Scholarship from Swinburne University of Technology, Australia for PhD Program (2014-2018)
- [3] Japanese Government (**Monbu-kagaku-shō**) Scholarship for Masters Program in Kyoto University as an Embassy-selected candidate (2011-2013)
- [4] Jahangirnagar University Supplementary Scholarship on academic results during Bachelor studies
- [5] Best Paper award in IEEE Region 10 Symposium (TENSYMP) 2020, Bangladesh.
- [6] Best Student Paper award in 29th Australasian Database Conference (ADC) in 2018
- [7] Best Poster award in 26th Australasian Database Conference (ADC) in 2015
- [8] Best Poster Paper award in International Workshop on Computer Vision and Intelligent Systems-2019 (IWCVIS2019) in 2019

[9] Government Scholarship on Higher Secondary School Certificate (H.S.C.) examination result

## Publications

### Journals

- [1] Badhan Chandra Das, **Md. Musfique Anwar**, Md. Al-Amin Bhuiyan. Attribute Driven Temporal Active Online Community Search. Submitted to IEEE Intelligent Systems. (Journal Rank: Q1, SCI, IF:4.464)
- [2] Rukaiya Habib, and **Md. Musfique Anwar**. Finding out noisy patterns for relation extraction of Bangla sentences. International Journal on Natural Language Computing (IJNLC) Vol.9, No.1, February 2020. ISSN 2319 - 4111. DOI: <https://airconline.com/ijnlc/V9N1/9120ijnlc02.pdf>
- [3] Badhan Chandra Das, and **Md. Musfique Anwar**. Predicting election outcome from social media data. International Journal on Natural Language Computing (IJNLC) Vol.9, No.1, February 2020. ISSN 2319 - 4111. DOI: <https://airconline.com/ijnlc/V9N1/9120ijnlc03.pdf>
- [4] Swarna Das, and **Md. Musfique Anwar**. Discovering Topic Oriented Highly Interactive Online Community. Frontiers in Big Data, Vol. 2, May 2019. ISSN 1573-1413. (Frontiers Journal Rank: Q2, SCI) DOI: <https://www.frontiersin.org/articles/10.3389/fdata.2019.00010/full>
- [5] **Md. Musfique Anwar**, Chengfei Liu, and Jianxin Li. Discovering and tracking query oriented active online social groups in dynamic information network. World Wide Web, Vol. 22(4) pp. 1–36, August 2018. ISSN 1573-1413. (Journal Rank: Q1/Q2, SCI, IF:1.815). DOI: <https://doi.org/10.1007/s11280-018-0627-5>
- [6] **Md. Musfique Anwar**. Measuring the Future Popularity of a Tweet containing Novel Topics. IJCSIS International Journal of Computer Science and Information Security, VOL.16 No.11, November 2018, pp. 166–173.
- [7] **Md. Musfique Anwar**. Bangla to English Machine Translation using Fuzzy Logic. IJCSIS International Journal of Computer Science and Information Security, VOL.16 No.11, November 2018, pp. 156–165.
- [8] Shibli Syeed Ashrafi, Md. Humayun Kabir, **Md. Musfique Anwar**, and A. K. M. Noman. English to Bangla Machine Translation System Using Context-Free Grammars. IJCSI International Journal of Computer Science Issues (Impact Factor 0.242), Vol. 10, Issue 3, No 2, May 2013, pp. 144–153.
- [9] **Md. Musfique Anwar**, Nasrin Sultana Shume, and Md. Al-Amin Bhuiyan. Structural Analysis of Bangla Sentences of Different Tenses for Automatic Bangla Machine Translator. IJCSIS International Journal of Computer Science and Information Security, VOL.8 No.9, December 2010, pp. 70–75
- [10] Tahmina Khatoun, **Md. Musfique Anwar**, Nasrin Sultana Shume, Md. Mizanur Rahman. Parcel Management System using GPS Tracking Unit. IJCSIS International Journal of Computer Science and Information Security, VOL.8 No.9, December 2010, pp. 183–189
- [11] **Md. Musfique Anwar**, Nasrin Sultana Shume, PKM Moniruzzaman and Md. Al-Amin Bhuiyan. Recognition of Printed Bangla Document from Textual Image Using Multi-Layer Perceptron (MLP) Neural Network. IJCSIS International Journal of Computer Science and Information Security, VOL.8 No.1, April 2010, pp. 254–259

- [12] **Md. Musfique Anwar**, Mohammad Zabed Anwar, and Md. Al-Amin Bhuiyan. “Syntax Analysis and Machine Translation of Bangla Sentences”. *IJCSNS International Journal of Computer Science and Network Security*, VOL.9 No.8, August 2009, pp. 317–326
- [13] **Md. Musfique Anwar** and Md. Mizanur Rahman. Offline Divisible E-Cash. *Journal of Computer Science*, IBAIS University, June 2007: Volume-1, Number-1, pp. 48–52

## Conferences

- [1] Tanjim Taharat Aurpa, Fatema Khan and **Md. Musfique Anwar**. Discovering and Tracking Query Oriented Topical Clusters in Online Social Networks. Accepted to IEEE Region 10 Symposium (TENSYMP) 2020, 5-7 June, 2020, Dhaka, Bangladesh (**Best Paper Award**).
- [2] Sudepto Mohanta, Aditi Dhali, Sarmistha Sarna Gomasta and **Md Musfique Anwar**. Identification of Query-Oriented Influential Users in Online Social Platform. Accepted to IEEE Region 10 Symposium (TENSYMP) 2020, 5-7 June, 2020, Dhaka, Bangladesh.
- [3] **Md Musfique Anwar**. Query-oriented Temporal Active Intimate Community Search. Accepted in 31st Australasian Database Conference (ADC 2020), pp. 206–215, 4-7 February, 2020, Melbourne, Australia. *Lecture Notes in Computer Science 10837*, Springer. DOI: [https://link.springer.com/chapter/10.1007/978-3-030-39469-1\\_17](https://link.springer.com/chapter/10.1007/978-3-030-39469-1_17)
- [4] Tanjim Taharat Aurpa, Fatema Khan and **Md. Musfique Anwar**. Topical Cluster Detection and Tracking from Mining Social User Interest (short paper). Accepted to the International Conference on Innovation in Engineering and Technology (ICIET), 23-24 December, 2019, Dhaka, Bangladesh.
- [5] Tasnim Siraj, Md. Enamul Haque and **Md Musfique Anwar**. Analyzing User Interest in Online Social Network (short paper). Accepted to the International Conference on Innovation in Engineering and Technology (ICIET), 23-24 December, 2019, Dhaka, Bangladesh.
- [6] Shifat Jahan Shetu, Tahmina Islam and **Md Musfique Anwar**. TTRank: A Temporal Twitter Ranking of Influential Twitter Users (short paper). Accepted to the International Conference on Innovation in Engineering and Technology (ICIET), 23-24 December, 2019, Dhaka, Bangladesh.
- [7] Swarna Das and **Md Musfique Anwar**. Finding Topic-Aware Intimate Online Social Groups. International Conference on Computer, Communication, Chemical, Materials & Electronic Engineering (IC4ME2), 11-12 July, 2019, Rajshahi, Bangladesh.
- [8] Md. Shoaib Ahmed, Badhan Chandra Das and **Md Musfique Anwar**. Attribute-Driven Active Local Community Detection (short paper) International Conference on Innovation in Engineering and Technology (ICIET), 27-28 December, 2018, Dhaka, Bangladesh.
- [9] Badhan Chandra Das, Md. Shoaib Ahmed and **Md Musfique Anwar**. Query Oriented Active Community Search. International Joint Conference on Computational Intelligence (IJCCI 2018), 14-15 December, 2018, Dhaka, Bangladesh. DOI: [https://link.springer.com/chapter/10.1007/978-981-13-7564-4\\_42](https://link.springer.com/chapter/10.1007/978-981-13-7564-4_42)
- [10] **Md Musfique Anwar**, Chengfei Liu and Jianxin Li. Uncovering Attribute-Driven Active Intimate Community. Proceedings of the 29th Australasian Database Conference (ADC 2018), pp. 109–122, 23-25 May, 2018, Gold Coast, Australia. *Lecture Notes in Computer Science 10837*, Springer (**Best Student Paper Award**). DOI: [https://link.springer.com/chapter/10.1007/978-3-319-92013-9\\_9](https://link.springer.com/chapter/10.1007/978-3-319-92013-9_9)

- [11] **Md Musfique Anwar**, Chengfei Liu, Jianxin Li and Tarique Anwar. Discovering and Tracking Active Online Social Groups. Proceedings of the 18th International Conference on Web Information System Engineering (WISE 2017), pp. 59–74, October 7-11, 2017, Puschino, Russia. DOI: [https://link.springer.com/chapter/10.1007/978-3-319-68783-4\\_5](https://link.springer.com/chapter/10.1007/978-3-319-68783-4_5)
- [12] **Md Musfique Anwar**, Jianxin Li and Chengfei Liu. Predicting the Spread of a New Tweet in Twitter. Proceedings of the 26th Australasian Database Conference (ADC 2015), pp. 104–116, 4-7 June, 2015, Melbourne, Australia. Lecture Notes in Computer Science 9093, Springer (**Best Poster Award**). DOI: [https://link.springer.com/chapter/10.1007/978-3-319-19548-3\\_9](https://link.springer.com/chapter/10.1007/978-3-319-19548-3_9)
- [13] **Md. Musfique Anwar**, Nasrin Sultana and Md. Al-Amin Bhuiyan. English Translation of Bangla Simple Sentences Using Bilingual Corpus. Proceedings of ICCIA 2011, Second International Conference On Computational Intelligence Applications, February 2011, India, pp. 50–53.
- [14] **Md. Musfique Anwar**, Mohammad Zabed Anwar and Md. Al-Amin Bhuiyan. Structural Analysis of Bangla Sentences for Machine Translation10 Proceedings of ICCIA 2010, International Conference On Computational Intelligence Applications, 03-05 March 2010, –ndia, pp. 230–237.
- [15] Tahmina Khaton and **Md. Musfique Anwar**. Web-based Parcel Management System using Mobile Station. Proceedings of NCCIS 2009, 3rd National Conference on Communication and Information Security, Dhaka, Bangladesh, –4th February 2009, pp. 43–47.

### Workshops

- [1] Tanjim Taharat Aurpa, Fatema Khan and **Md. Musfique Anwar**. Detection and Tracking Topical Clusters in Online Social Network. International Workshop on Computer Vision and Intelligent Systems-2019 (IWCVIS2019), 26 December, 2019, Dhaka, Bangladesh.
- [2] Aditi Dhali, Sarmistha Sarna, Sudepto Mohanta and **Md Musfique Anwar**. Finding Query-oriented Influential Social Users. International Workshop on Computer Vision and Intelligent Systems-2019 (IWCVIS2019), 26 December, 2019, Dhaka, Bangladesh. (**Best Poster Paper Award**)
- [3] Swarna Das and **Md. Musfique Anwar**. Discovering Topic Oriented Highly Interactive Online Community. In 13th International AAAI Conference on Web and Social Media (**ICWSM**), 11–14 June 2019, Munich, Germany.

### Posters

- [1] Tanjim Taharat Aurpa, Fatema Khan and **Md. Musfique Anwar**. Discovering and Tracking Query Oriented Topical Clusters in Online Social Networks. 6th International Conference on Networking, Systems and Security (6th NSysS 2019), 17-19 December, 2019, Dhaka, Bangladesh.
- [2] Tasnim Siraj, Md. Enamul Haque and **Md Musfique Anwar**. Inferring and Tracking Users Interests in Online Social Networks. 6th International Conference on Networking, Systems and Security (6th NSysS 2019), 17-19 December, 2019, Dhaka, Bangladesh.
- [3] Shifat Jahan Shetu, Tahmina Islam and **Md Musfique Anwar**. TTRank: A Temporal Topical Model to Rank Twitter Users. 6th International Conference on Networking, Systems and Security (6th NSysS 2019), 17-19 December, 2019, Dhaka, Bangladesh.

- [4] Aditi Dhali, Sarmistha Sarna, Sudepto Mohanta and **Md Musfique Anwar**. Finding Query-oriented Influential Social Users. 6th International Conference on Networking, Systems and Security (6th NSysS 2019), 17-19 December, 2019, Dhaka, Bangladesh.
- [5] Badhan Chandra Das, Md. Shoaib Ahmed and **Md Musfique Anwar**. Attribute-Driven Active Community Search. 5th International Conference on Networking, Systems and Security (5th NSysS 2018), 18-20 December, 2018, Dhaka, Bangladesh.
- [6] **Md Musfique Anwar**, Jianxin Li and Chengfei Liu. Predicting the Spread of a New Tweet in Twitter. In 26th Australasian Database Conference (ADC 2015), 4-7 June, 2015, Melbourne, Australia. **(Best Poster Award)**

#### **Theses and dissertations**

- [1] Mining the Online Social Network Data: Topical Influence and Social Graph Partitioning. Doctoral Thesis. Swinburne University of Technology, Australia.
- [2] Filtering Noisy Patterns using Conflict Score in Distant Supervision for Relation Extraction. M.Sc. Dissertation. Kyoto University University, Japan.
- [3] Offline Divisible E-Cash. B.Sc. Dissertation. Jahangirnagar University, Bangladesh.

## Appointments

June 30, 2019 – To date	Associate Professor, Dept. of Computer Science and Engineering, Jahangirnagar University, Savar, Dhaka-1342, Bangladesh.
January 01, 2020 – To date	Adjunct Faculty, Faculty of Science and Technology, Bangladesh University of Professionals, Dhaka, Bangladesh.
June 10, 2014 – June 29, 2019	Assistant Professor, Dept. of Computer Science and Engineering, Jahangirnagar University, Savar, Dhaka-1342, Bangladesh.
Feb. 06, 2008 – June 09, 2014	Lecturer, Dept. of Computer Science and Engineering, Jahangirnagar University, Savar, Dhaka-1342, Bangladesh.
March. 02, 2015 – May 25, 2018	Sessional Staff, Faculty of Science, Engineering and Technology, Swinburne University of Technology, Melbourne, Australia.
Sep. 17, 2007 – Feb. 05, 2008	Lecturer, Dept. of Computer Science and Engineering, Daffodil International University, Dhaka, Bangladesh.
Feb. 06, 2007 – Aug. 31, 2008	Lecturer, Dept. of Computer Science and Engineering, IBAIS University, Dhaka, Bangladesh.
Sep. 01, 2007 – Feb 05, 2008	Lecturer (part-time), Dept. of Computer Science and Engineering, Jahangirnagar University, Savar, Dhaka-1342, Bangladesh.

## Teaching

2019-20	Algorithm Analysis and Design	Jahangirnagar University
2018-20	Information System Design	Jahangirnagar University
2020	Algorithms and Optimizations	Bangladesh University of Professionals
2020	Advanced Operating Systems	Bangladesh University of Professionals
2019	Software Engineering	Jahangirnagar University
2008-11, 2018-19	Programming Language (C)	Jahangirnagar University
2008-11, 2018-19	Object Oriented Analysis & Design	Jahangirnagar University
2008	Discrete Mathematics	Jahangirnagar University
2008	Discrete Mathematics	Jahangirnagar University
2007	Data Structures and Algorithms	Daffodil International University
2007	Numerical Methods, Prog. Language (C)	Daffodil International University
2007	Artificial Intelligence	IBAIS University
2007	Computer Fundamentals	IBAIS University
2007	Computer Architecture	Jahangirnagar University

## Teaching Assistant

2015-18	Development Project 1 (Tools & Practices)	Swinburne University of Technology
2016-17	Fundamentals of Data Management	Swinburne University of Technology
2017	Computer System	Swinburne University of Technology
2018	Web Development	Swinburne University of Technology
2016	Enterprise Development	Swinburne University of Technology

## Contributed Presentations

- [1] **Md Musfique Anwar**, Chengfei Liu and Jianxin Li. Uncovering Attribute-Driven Active Intimate Community (oral presentation). 29th Australasian Database Conference (ADC 2018), 23-25 May, 2018, Gold Coast, Australia.
- [2] **Md Musfique Anwar**, Jianxin Li and Chengfei Liu. Predicting the Spread of a New Tweet in Twitter (oral presentation). 26th Australasian Database Conference (ADC 2015), 4-7 June, 2015, Melbourne, Australia.
- [3] **Md Musfique Anwar**. Predicting the Spread of a New Tweet in Twitter (oral presentation). SUCCESS Seminar, Spetember -7, 2015, Swinburne University of Technology, Melbourne, Australia.
- [4] **Md Musfique Anwar**. Higher Study in Abroad (oral presentation). Tech Talk, Organized by Jahangirnagar University Computer Club, February 17, 2019, Jahangirnagar University, Bangladesh.
- [5] **Md Musfique Anwar**. Predicting the Spread of a New Tweet in Twitter (poster presentation). PhD Workshops in 26th Australasian Database Conference (ADC 2015) 5 June, 2015, Melbourne, Australia.

## Professional Activities

- Reviewer, IEEE Transactions on Industrial Informatics ( <http://www.ieee-ies.org/pubs/transactions-on-industrial-informatics> )
- Editorial Board Member, International Journal of Automation, Artificial Intelligence and Machine Learning (IJAAIML) ( <http://researchlakejournals.com/index.php/AAIML/about/editorialTeam> )
- Editorial Board Member (Got invitation), Computers, Materials & Continua ( <http://techscience.com/journal/cmc> )
- Reviewer, IEEE Access Journal ( <http://ieeaccess.ieee.org> )
- Reviewer, International Journal of Cooperative Information System ( [www.worldscientific.com/worldscinet/ijcis](http://www.worldscientific.com/worldscinet/ijcis) )
- Reviewer, Data Science and Engineering Journal ( <https://link.springer.com/journal/41019> )
- Program Committee (PC) Member, The 16th International Conference on Advanced Data Mining and Applications (ADMA) On 12-15 November 2020 in Foshan, China.
- Program Committee (PC) Member, CNAIA 2020 (2020 International Conference on Computer, Networking, Artificial Intelligence and Application), Xining, China, August 10-12, 2020.

- Reviewer, International Joint Conference on Computational Intelligence (IJCCI), 2018, 2019.
- Reviewer, fifth IEEE Region 10 (Asia Pacific) Humanitarian Technology Conference (R10HTC), 2017.
- Reviewer, International Conference on Electrical, Computer and Communication Engineering, 2019.



## References

- Chengfei Liu  
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- Sadao Kurohashi  
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- Mohammad Zahidur Rahman  
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