

Curriculum Vitae of *SAJAL HALDER*

University Address

Room : 14.08.03, PhD Candidate,
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Permanent Address

C/O: Late Bhabasindhu Halder,
Naiarbari, Kotalipara,
Gopalganj, Bangladesh.

OBJECTIVE

To build a career as computer scientist or professional researcher and work for the betterment of future world.

SELF ASSESSMENT

I would like to introduce myself as a sincere, honest, hard working, pragmatically challenging, self-motivated and reasonably presentable person having positive attitude towards working with good interpersonal relations with different nationals and religions.

RESEARCH INTERESTS

My research interests are in Personalized Itinerary Recommendation System, Deep Reinforcement Learning, Periodic Behavior Mining, Social Network Analytics and Trajectory Behavior Analysis.

PUBLICATIONS

JOURNALS

1. **Sajal Halder**, Md. Samiullah and Young-Koo Lee. *Supergraph based Periodic Patterns Mining in Dynamic Social Networks*. Expert Systems with Applications-An International Journal. volume 72, pages 430-442, 2017, **SCIE (Impact Factor - 2.98)**. Publisher: **Elsevier**
2. Iram Fatima, **Sajal Halder**, Muhammad Aamir Saleem, Rabia Batool, Muhammad Fahim, Young-Koo Lee, Sungyoung Lee. *Smart CDSS: Integration of Social Media Interaction Engine (SMIE) in Healthcare for Chronic Disease Patients*. Multimedia Tools and Applications, pages 1-21, 2013, **SCIE (Impact Factor - 1.014)**, Publisher: **Springer**.
3. Yongkoo Han, Kisung Park, Donghai Guan, **Sajal Halder**, and Young-Koo Lee. *Topological Similarity based Feature Selection for Graph Classification*. In the Computer Journal, bxt123, 2013, **SCIE (Impact Factor - 0.755)**, Publisher: **Oxford University Press**.
4. Md. Rezaul Karim, **Sajal Halder**, Byeong-Soo Jeong, and Ho-Jin Choi. *Efficient Mining Frequently Correlated, Associated-correlated and Independent Patterns Synchronously by Removing Null Transactions*. Human Centric Technology and Service in Smart Space, LNEE 182, v.182, no.0, pp.93-103, Publisher: **Springer**.
5. **Sajal Halder**, Yongkoo Han and Young-Koo Lee. *Discovering Periodic Patterns using Supergraph in Dynamic Networks*. Research Notes in Information Science (RNIS), Volume 14, June 2013, pp.148-151.
6. **Sajal Halder**, Kwan Hui Lim, Jeffrey Chan and Xiuzhen Zhang. *Efficient Itinerary Recommendation via Personalized POI Selection and Pruning*. **Submitted to** Knowledge and Information Systems Journal.

TOP CONFERENCES

1. **Sajal Halder**, Md. Samiullah, A. M. Jehad Sarkar and Young-Koo Lee. *MovieSwarm: Information Mining technique for Movie Recommendation System*. In the 7th International Conference on Electrical and Computer Engineering (ICECE), Bangladesh, 2012, Publisher: **IEEE**.

2. **Sajal Halder**, A. M. Jehad Sarkar and Young-Koo Lee. *Movie Recommendation System Based on Movie Swarm*. In Second International Conference on Cloud and Green Computing (CGC), China, 2012, Publisher: IEEE.
3. **Sajal Halder**, Md. Hanif Seddiqui and Young-Koo Lee. *An Entertainment Recommendation System using the Dynamics of User Behavior over Time*. 17th International Conference and Information Technology (ICCIT), Bangladesh, 2014, Publisher: IEEE.
4. Md. Fahim Sikder, Md. Jamal Uddin and **Sajal Halder**. *Predicting Students Yearly Performance using Neural Network: A Case Study of BSMRSTU*. In the 5th International Conference on Informatics, Electronics & Vision (ICIEV), Bangladesh, 2016, Publisher: IEEE.
5. Md. Al-Amin, Md. Amirul Islam, **Sajal Halder**, Md. Ashraf Uddin and Uzzal Kumar Acharjee. *An Efficient Sentiment Mining Approach on Social Media Networks*. In International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS), 2018, Kolkata, India, Publisher: Springer.
6. Md Ashraf Uddin, Mahmudul Hasan, **Sajal Halder**, Sajeeb Ahamed and Uzzal Kumar Acharjee. *CRICRATE: A Cricket Match Conduction and Player Evaluation Framework*. In International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS), 2018, Kolkata, India, Publisher: Springer.
7. Tanvir Ahammad, Md. Khabir Uddin, Abdul Karim, **Sajal Halder** *A Framework for Detecting and Tracking Religious Abuse in Social Media*. International Conference on Computing, Power and Communication Technologies (GUCON), 2019, India, Publisher: IEEE.

PROFESSIONAL EXPERIENCE

Tutor

Dept. of Computer Science, School of Science
RMIT University, Australia.

Semester I and II, 2019

Assistant Professor (On Study Leave)

Dept. of Computer Science and Engineering,
Jagannath University, Dhaka-1100, Bangladesh.

24th August 2017 - to date

Lecturer

Dept. of Computer Science and Engineering,
Jagannath University, Dhaka-1100, Bangladesh.

17th July 2016 - 23th August 2017

Assistant Professor

Dept. of Computer Science and Engineering,
Bangabandhu Sheikh Mujibur Rahman Science & Technology University (BSMRSTU),
Gopalganj, Bangladesh.

19th June 2016 - 16th July 2016

Lecturer

Dept. of Computer Science and Engineering,
Bangabandhu Sheikh Mujibur Rahman Science & Technology University (BSMRSTU),
Gopalganj, Bangladesh.

20th October 2013 - 18th June 2016

Teacher Assistant

ACM Problem Solving
Kyung Hee University, South Korea.

September - December 2012

Software Developer (Internship)

Neighbor System Ltd, Seoul, South Korea.

Jan - Feb, Jul - Aug 2012 & Jan-Feb 2013

Lecturer

April 2011 - August 2011

Dept. of Computer Science and Engineering,
Dhaka International University (DIU), Bangladesh.

TAUGHT COURSES

Tutoring Course: Algorithms and Analysis (Semester 1, 2019 and Semester 2, 2019)

1st Year Courses: Computer Fundamentals, Discrete Mathematics, Microcomputer Programing with C/C++ , Object Oriented Programing (Java) and Digital System

2nd Year Courses: Design and Analysis of Algorithms, Digital Circuits and Automata Theory

3rd Year Courses: Operating System and System Programming, Database Management Systems, Software Engineering and Information System Design.

4th Year Courses: Data Mining and Warehousing, Communication Engineering, Pattern Recognition, Machine Learning.

M.Sc Courses: Big Data Analytics, Advanced Data Mining and Machine Learning

EDUCATION**PhD Candidate**

August 2018 - to date

Department of Computer Science,
Royal Melbourne Institute of Technology (RMIT) University
Melbourne, Victoria, Australia.

Thesis Proposal: Collective Itinerary Recommendation based on Reinforcement Learning.

Supervisor: Dr. Jeffrey Chan

Master of Engineering

Date of Graduation: August 2013

Computer Engineering,
Kyung Hee University, South Korea

CGPA : **4.23/4.30 (95.25%)**

Bachelor of Science

Date of Graduation: November 2010

Computer Science and Engineering
University of Dhaka, Bangladesh

CGPA : **3.60/4.00**

Position : **5/59**

COMPUTING SKILLS

Programming language : Python, R-studio, C/C++, Java, MatLab, Prolog, Assembly Language, VHDL, Mysql, JavaScript, PHP, CSS, HTML.

Tools : Weka, Splunk, Libero, OpenGL, Box2D, Lex/Yacc, Latex, NS-2, Visual Studio 6+, 2008, 2010, NetBeans, Eclipse.

SCHOLARSHIPS

- RMIT Research Stipend Scholarship (August 2018 - to date)
- Korean Global IT Scholarship (September 2011 - August 2013).
- Kyung Hee University President Scholarship (September 2011 - August 2013).

Other Activities

- Assistant Provost, Bijoy Dibosh Hall, Bangabandhu Sheikh Mujibur Rahman Science & Technology University (March 2015- 16th July 2016).
- Deputy Sub-Project Manager (DSPM), Establishment Campus Network on Bangabandhu Sheikh Mujibur Rahman Science & Technology University, HEQEP Project. (June 2015- 16th July 2016).

- Treasurer, CSE Association, Bangabandhu Sheikh Mujibur Rahman Science & Technology University (January 2015- 16th July 2016).
- Reviewer, The 2nd International Conference on Fuzzy System and Data Mining (FSDM 2016).
- Reviewer, IEEE Access, 2019.
- Reviewer, 4th International Conference on Imaging, Vision Pattern Recognition (IVPR), 2020.

REFERENCES

- Dr. Jeffrey Chan, (jeffrey.chan@rmit.edu.au), Senior Lecturer, Computer Science and Software Engineering, School of Science, RMIT University, Australia, Mobile: +61403289686.
- Dr. Hafiz Md. Hasan Babu (hafizbabu@hotmail.com) Pro-Vice Chancellor, National University and Professor, Department of Computer Science and Engineering, University of Dhaka, Bangladesh, Mobile: +8801711351055.
- Dr. Uzzal Kumar Acharjee (uzzal@cse.jnu.ac.bd) Professor and Chairman, Dept. of Computer Science & Engineering, Jagannath University, Bangladesh, Mobile: +8801625099037.
- Prof. Young-Koo Lee, PhD (ykleee@khu.ac.kr) Assistant Professor, Dept. of Computer Engineering, College of Electronics and Information, Kyung Hee University, South Korea, Mobile: +82312013732.

DECLARATION

I affirm that the information given herein is true and accurate to the best of my knowledge and belief.

Sajal Halder
April, 2020