MD SHAKIL AHAMED SHOHAG

CONTACT INFORMATION	University of Jinan , No. 336, West Road of Nan Xinzhuang, Jinan 250022, Shandong, China **Homepage:** https://shakilshohag.github.io/	+86 166 53155447 shakilshohag@gmail.com shakilshohag@mail.ujn.edu.cn

RESEARCH INTERESTS

Computer vision, image processing, image feature fusion, deep learning and graph matching for establishing sparse feature correspondence of images. My thesis title is **Graph Matching Algorithm for Image Matching Based on Feature Enhancement and Fusion**. Previously, I have worked on wireless networking, mobile Ad-hoc network security and web security.

EDUCATION

University of Jinan, China   **Sep 2018 – Present**
Master's in Computer Science and Technology (**Thesis ongoing**)
CGPA: 4.23/5.00 | **Percentage:** 87.57 %
Advisor: Prof. Xiuyang Zhao

University of Development Alternative, Bangladesh   **Jan 2007 – April 2011**
BSc in Electronics and Telecommunication Engineering (**Completed**)
CGPA: 3.70/4.00

PUBLICATIONS

[1] **Shohag, M. S. A.,** Hassan, M. U., Niu, D., Kong, X., Zhao, X., & Rahman, F. "Graph Based Image Matching Using the Fusion of Several Kinds of Features," In Proceedings of the 2019 4th International Conference on Multimedia Systems and Signal Processing (ICMSSP 2019). ACM, New York, NY, USA, 188-193. DOI: https://doi.org/10.1145/3330393.3330421.

[2] **Shohag, M. S. A.,** Zhan, Y., Zhao, X., Hassan, M. U., Niu D. "Cross-graph reference structure based pruning and edge context information for graph matching," Multimedia Tools and Applications. (**Under Review**)

[3] Hassan, M. U., **Shohag, M. S. A.,** Niu, D., Shaukat, K., Zhang, M., Zhao, W., & Zhao, X. "A framework for the revision of large-scale image retrieval benchmarks," Proc. SPIE 11179, Eleventh International Conference on Digital Image Processing (ICDIP 2019), 111794D (14 August 2019); https://doi.org/10.1117/12.2539640.

[4] Hassan, M. U., Niu, D., Zhao, X., **Shohag, M. S. A.,** Ma, Y., & Zhang, M. "Salient Object Detection based on CNN Fusion of Two Types of Saliency Models," 2019 34th International Conference on Image and Vision Computing New Zealand (IVCNZ). doi:10.1109/ivcnz48456.2019.8960994.

[5] Yasin, A. S. M., Haque, M. M., Naha, K., & **Shohag, M. S. A.** "Devise, Extend and Upgraded Algorithm of Gene Sequence for Local Alignment," International Journal of Engineering and Computer Science.

[6] Haque, M. M., Kabir, R. A., & **Ahamed, M. S.** "Biometric Based Web Security Using Ridges of Finger," International Journal of Engineering and Computer Science, 2(08).

WORK EXPERIENCE

Shandong Provincial Key Laboratory of Network-Based Intelligent Computing, University of Jinan, China   **Sep 2018 – Present**
Research Assistant, Computer Vision and Deep Learning
- Graph Matching
- Image and Object Retrieval
- Machine Learning and Medical Imaging

Faculty of Engineering, University of Development Alternative, Bangladesh   **Jan 2012 – Sep 2016**
Lecturer
- Teaching
- Student Counseling
- Member of Academic Committee
- Member of Examination Committee
- Member of Seminar Committee
- Member of Tour Committee

Business Automation, Dhaka, Bangladesh   **Aug 2017 – Aug 2018**
Web Design and Development (Freelancer)

- Webpage Design: HTML, CSS, Bootstrap
- Scripting: JavaScript, JQuery, Ajax
- Database Query: MySql (sql)
- Framework Specification: PHP-Laravel
- Manual Writing

VOLUNTEERY WORKS	**International Student Dormitory, University of Jinan, China**	**Nov 2020 – Present**

Assistant Administrator
- Inspection of the student rooms.
- Conducting meetings with international students
- Reporting to the dormitory admin.

	International Student Dormitory, University of Jinan, China	**Dec 2019 – May 2020**

Help-fight pandemic worker
- Collecting and distributing food and emergency items for the residents during lockdown.

ADDITIONAL COURSES
- **Coursera** – Neural Networks and Deep Learning
- **Coursera** – Improving DNN: Hyperparameter tuning, Regularization and Optimization
- **Coursera** – Structuring Machine Learning Projects
- **Coursera** – Algorithmic Toolbox
- **Coursera** – Mathematics for Machine Learning: Linear Algebra
- **Coursera -** Mathematics for Machine Learning: Multivariate Calculus
- **Techshop** – Micro-Controller Based Embedded System Design & Robotics (Basic)
- **IICT, BUET** – Embedded System Design & Development (Workshop)

ACHIEVEMENTS & AWARDS
- Fully Funded Chinese Government Scholarship for Master Studies (2018-2021)
- Academic performance based tuition fee waiver (50%) for entire undergraduate study, (2007-2011)
- 2nd position (departmental) at undergraduate level
- The best speaker, intra-departmental debate competition, UODA (2008)

CONFERENCE PRESENTATIONS
- Delivered Oral Presentation at 4th ICMSSP 2019, Guangzhou, China.

SKILLS
Programming: Python, C/C++, MATLAB,
Public Library: PyTorch, Tensorflow, Keras, Caffe, OpenCV
Environments & IDE: Linux, Windows, Visual Studio 2015
Languages & Scores: English (fluent), **IELTS 8 (L-9, R-8, W-7, S-7)**; Mandarin (basic); Bangla (native); Hindi & Urdu (fluent in verbal communication only)

INTERESTS
- Blogging, Vlogging
- Cardio: Cycling, Running, Swimming
- Sports: Badminton, Volleyball, Skating
- Books & Movies: Sci-Fi