

- [About Us](#)
 - [Message from the Chair](#)
 - [Mission Statement](#)
 - [Contact Us](#)
- [Undergraduate](#)
 - [Admission](#)
 - [Prospective Students](#)
 - [Transfer Students](#)
 - [Internal Transfers](#)
 - [External Transfers](#)
 - [Academics](#)
 - [Programs](#)
 - [Advising](#)
 - [Policies](#)
 - [Directed Research \(498R\)](#)
 - [Financial Aid](#)
 - [Internship \(498R\)](#)
- [Graduate](#)
 - [Admission](#)
 - [MSCSE](#)
 - [MSEEE](#)
 - [MSETE](#)
 - [Academics](#)
 - [Programs](#)
 - [Advising](#)
 - [Master's Qualifying Examination](#)
 - [Master's Course Offering Plan](#)
 - [Policies](#)
 - [Financial Aid](#)
- [People](#)
 - [Faculty](#)
 - [Lab Instructors & Officers](#)
 - [Administrative Staffs](#)
- [Research](#)
 - [Areas](#)
 - [Research Labs](#)
 - [Seminars](#)
 - [Research Collaboration](#)
 - [Publications](#)
- [Student Activities](#)
 - [Student Advisory Board](#)
 - [ACM Student Chapter](#)
 - [IEEE Student Branch](#)
 - [Women@ECE](#)
 - [Computer and Engineering Club](#)
- [Resources](#)
 - [Forms and Templates](#)
 - [Laboratories](#)
 - [Counseling](#)
 - [Medical](#)
 - [CPC](#)
- [Industry](#)
 - [Advisory Board](#)
 - [CSE Program](#)
 - [EEE & ETE Programs](#)
 - [ECE Industry Partners](#)
- [Alumni](#)

- [Advisory Board](#)
- [Capstone Designs](#)
- [FAQ](#)
- [Login](#)
-



search



- [Contact Us](#)
- 

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Electrical & Computer Engineering

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& Physical Sciences

- [About Us »](#)
- [Undergraduate »](#)
- [Graduate »](#)
- [People »](#)
- [Research »](#)
- [Student Activities »](#)
- [Resources »](#)
- [Industry »](#)
- [Alumni »](#)
- [Capstone Designs](#)
- [FAQ](#)
- [Login](#)
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Dr. Shafin Rahman [SfR1]

Assistant Professor

Ph.D. in Engineering and Computer Science, The Australian National University, Australia

M.Sc. in Computer Science, University of Manitoba, Canada

B. Sc. in Computer Science and Engineering, Bangladesh University of Engineering and Technology (BUET)



Office: SAC 921

Office hours:

Monday, 8.00 am. – 1.00 pm.

Wednesday, 8.00 am. – 1.00 pm.

Phone: +88 02 55668200 Ext – 6187

Email: shafin.rahman@northsouth.edu

Website: <https://sites.google.com/site/rshafin>

Google Scholar URL: <https://scholar.google.com/citations?user=Pe8C-SUAAAAJ>

Scopus Profile: <https://www.scopus.com/authid/detail.uri?authorId=55435301000>

Research Areas

- [Artificial Intelligence & Robotics](#)

Research Interests

Computer vision and Machine Learning

Teaching

- [CSE 583 Digital Image Processing](#)
- [CSE 467 Digital Image Processing](#)
- [CSE 215 Programming Language II](#)
- [CSE 215L Programming Language II Lab](#)
- [CSE 299 Junior Design Course](#)
- [CSE 173 Discrete Mathematics](#)
- [CSE 445 Machine Learning](#)

Selected Publications

Journals

- Shafin Rahman, Salman H. Khan, Fatih Porikli, “**Zero-Shot Object Detection: Joint Recognition and Localization of Novel Concepts,**” *International Journal of Computer Vision (IJCV)*, 2020
- Shafin Rahman, Salman H. Khan, Fatih Porikli, “**A unified approach for conventional zero-shot, generalized zero-shot and few-shot learning,**” *IEEE Transaction on Image Processing (TIP)*, 2018
- Neil D. B. Bruce, Shafin Rahman and Diana Carrier, “**Sparse coding in early visual representation: From specific properties to general principles,**” *Neurocomputing, Vol. 171, pp. 1085–1098, ScienceDirect, Elsevier*, 2016
- Neil Bruce, Calden Wloka, Nick Frosst, Shafin Rahman and John K Tsotsos, “**On Computational Modeling of Visual Saliency: Examining What’s Right, and What’s Left,**” *Vision Research, Vol. 116, Part B, pp. 95–112, ScienceDirect, Elsevier*, 2015
- Shafin Rahman and Neil Bruce, “**Visual Saliency Prediction and Evaluation Across Different Perceptual a Tasks,**” *PLoS ONE*, 2015

Conference Papers

- Ali Cheraghian, Shafin Rahman, Pengfei Fang, Soumava Kumar Roy, Lars Petersson, and Mehrtash Harandi, “**Semantic-aware Knowledge Distillation for Few-Shot Class-Incremental Learning,**” *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021
- Ali Cheraghian, Shafin Rahman, Sameera Ramasinghe, Pengfei Fang, Christian Simon, Lars Petersson, Mehrtash Harandi, “**Synthesized Feature based Few-Shot Class-Incremental Learning on a Mixture of Subspaces,**” *IEEE/CVF International Conference on Computer Vision (ICCV)*, 2021
- Yuhao Zhang, Md Zakir Hossain, Shafin Rahman, “**DeepVANet: A Deep End-to-End Network for Multi-modal Emotion Recognition,**” *NTERACT 2021 -18th IFIP TC. 13 International Conference on Human-Computer Interaction*, 2021
- Shafin Rahman, Salman H. Khan, Nick Barnes, “**Improved Visual-Semantic Alignment for Zero-Shot Object Detection,**” *Proceedings of the AAAI Conference on Artificial Intelligence (AAAI)*, 2020
- Shafin Rahman, Salman H. Khan, Nick Barnes, “**Transductive Learning for Zero-Shot Object Detection,**” *IEEE/CVF International Conference on Computer Vision (ICCV)*, 2019
- Shafin Rahman and Neil Bruce, “**Saliency, Scale and Information: Towards a Unifying Theory,**” *Neural Information Processing Systems (NIPS)*, 2015



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☎ +880-2-55668200 Ext. 1526

☎ +880-2-55668200 Ext. 1530

✉ ece@northsouth.edu

Department of Electrical and Computer Engineering

North South University

Plot # 15, Block # B, Bashundhara

Dhaka – 1229, Bangladesh