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EDUCATION

Doctor of Philosophy in Computer Applied Technology **2019**
University of Chinese Academy of Sciences, China
Dissertation title: "RGB-D Object Detection and Recognition Based on Deep Learning Technique"
Advisor: Professor Ke Lu, PhD,
School of Engineering Sciences, University of Chinese Academy of Sciences, China.

Master of Science in Computer Science & Engineering **2006**
Islamic University, Kushtia, Bangladesh

Bachelor of Science in Computer Science & Engineering **2005**
Islamic University, Kushtia, Bangladesh

RESEARCH INTERESTS

Computer vision, Artificial intelligence, Machine learning, Wireless network.

PROFESSIONAL AND TEACHING EXPERIENCE

Associate Professor **2019 - Present**
Department of Computer Science and Engineering, Islamic University, Kushtia, Bangladesh

Assistant Professor **2013 - 2019**
Department of Computer Science and Engineering, Islamic University, Kushtia, Bangladesh

Teaching Assistant, Introduction to Deep Learning **2016 - 2018**
School of Engineering Sciences, University of Chinese Academy of Sciences, China

Lecturer **2010 - 2013**
Department of Computer Science and Engineering, Islamic University, Kushtia, Bangladesh

HONORS AND AWARDS

Excellent International Graduate Award of University of Chinese Academy of Sciences **2019**
CAS-TWAS President's Fellowship to pursue PhD **2015**

PUBLICATIONS

- [1] Yanhao Tan, Ke Lu, Mohammad Muntasir Rahman, and Jian Xue. "RGBD-FG: A Large-Scale RGB-D Dataset for Fine-Grained Categorization." In Proceedings of the IEEE International Conference on Multimedia and Expo (ICME), 2020.
- [2] Mohammad Muntasir Rahman, Mst. Ashrafunnahar Hena, Bikash Chandra Singh, and Mohammad Alamgir Hossain, "Performance Analysis of Feature-Based Automated Measurement of Mouse Social Behavioral," IITM Journal of Management and IT, vol. 11(1), pp. 1-6, 2020.
- [3] Md. Shahabub Alam, Mohammad Alamgir Hossain, Md. Ibrahim Abdullah, Md. Shamim Hossain, and M. Muntasir Rahman, "Performance Analysis of Throughput for Cooperative Spectrum Sensing in Cognitive Radio," Journal of Network Security Computer Networks, vol. 6(2), pp. 1-8, 2020.
- [4] Liping Hou, Jian Xue, Ke Lu, Li Hao, and Mohammad Muntasir Rahman. "A Single-stage Multi-class Object Detection Method for Remote Sensing Images." In Proceedings of the IEEE Visual Communications and Image Processing (VCIP), pp. 1-4, 2019.
- [5] Mohammad Muntasir Rahman, Yanhao Tan, Jian Xue, Ling Shao, and Ke Lu, "3D object detection: Learning 3D bounding boxes from scaled down 2D bounding boxes in RGB-D images," Information Sciences, vol. 476, pp. 147-158, 2019.

- [6] B. C. Singh, Ashrafunnahar Hena, Mohammad Muntasir Rahman, and Md. Sipon Miah, "User Interface for Public Information System," *Journal of Scientific & Engineering Research*, vol. 9(7), pp. 1526-1529, 2018.
- [7] B. C. Singh, Mohammad Muntasir Rahman, Md. Sipon Miah, and Mrinal Kanti Baowaly, "Community Detection Using Node Attributes and Structural Patterns in Online Social Networks," *Computer and Information Science*, vol. 10(4), pp. 50-59, 2017.
- [8] Mohammad Muntasir Rahman, Yanhao Tan, Jian Xue, and Ke Lu. "RGB-D Object Recognition with Multi-modal Deep Convolutional Neural Networks." In *Proceedings of the IEEE International Conference on Multimedia and Expo (ICME)*, pp.991-996, 2017.
- [9] Jian Xue, Jun Yao, Ke Lu, Ling Shao, and Mohammad Muntasir Rahman, "Efficient volume rendering methods for out-of-Core datasets by semi-adaptive partitioning," *Information Sciences*, vol. 370-371, pp. 463-475, 2016.
- [10] Libo Zhang, Yihan Sun, Tiejian Luo, and Mohammad Muntasir Rahman, "Note: A Manifold Ranking Based Saliency Detection Method for Camera," *Review of Scientific Instruments*, vol. 87(9), pp. 096103, 2016.
- [11] Md. Ibrahim Abdullah, Mohammad Muntasir Rahman, and Mukul Chandra Roy, "Detecting Sinkhole Attacks in Wireless Sensor Network using Hop Count," *International Journal of Computer Network and Information Security*, vol. 7(3), pp. 50-56, 2015.
- [12] Mst. Ashrafunnahar Hena, M. Shahjahan Ali, and M. Muntasir Rahman, "A Simple Statistical Model to Estimate Incident Solar Radiation at the Surface from NOAA AVHRR Satellite Data," *International Journal of Information Technology and Computer Science*, vol. 5(2), pp. 36-41, 2013.
- [13] Shaikh Habiba Sultana, M. Shahjahan Ali, Mst. Ashrafunahar Hena, and M. Muntasir Rahman, "A Simple Model of Mapping of Land Surface Temperature from Satellite Digital Images in Bangladesh," *International Journal of Information Technology and Computer Science*, vol. 5(1), pp. 51-57, 2012.
- [14] Md. Ibrahim Abdullah, M. Muntasir Rahman, Ahsan-ul-Ambia, and Md. Zulfiker Mahmud, "Performance of Conferencing over MANET Routing Protocols," *ARPN Journal of Systems and Software*, vol. 2(6), pp. 214-218, 2012.
- [15] Mohammad Muntasir Rahman, Md Ibrahim Abdullah, and Md Shamim Hossain. "Level based path selection technique in large WSN for hierarchical architecture," *International Journal of Advanced Science & Technology*, vol. 32, pp. 33-43, 2011.
- [16] M. Shohidul Islam, M. Babul Islam, M. Mojahidul Islam, M. Shamim Hossain, M. Muntasir Rahman, "Comparative study between Mel-LP and LP-Mel based front-ends for noisy speech recognition using HMM". *ATC (ATC-30116024)* vol. 1(2), pp 55-59, 2011.

PATENT

- [1] Ke Lu, Yanhao Tan, Mohammad Muntasir Rahman, and Xue Jian, "基于深度学习的 RGB-D 三维物体检测方法", China National Intellectual Property Office, patent no: 201810163104.2

TECHNICAL SKILLS

- Deep Learning Framework: Caffe, Pytorch, TensorFlow, Keras.
- Programming languages: Python, MATLAB, C, C++, Java, PHP.
- Other: Linux, Mac OS, Windows OS.

REFERENCES

Professor Ke Lu, PhD

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