MD. MAKLACHUR RAHMAN

Researcher
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Research Interests

I am highly interested in pursuing research on computer vision, visual tracking, segmentation, and medical image processing using deep learning frameworks.

Education

M.S. in Computer Science & Engineering (CGPA: **4.23/4.5**)   August 2020
Kyungpook National University (KNU), South Korea. [**95.8 %** Marks]

B.S. in Computer Science & Engineering (CGPA: **3.51/4**)   September 2013
Chittagong University of Engineering & Technology (CUET), Bangladesh.
Position: **7th** (out of 58).

Research Experience

Researcher, Virtual Reality Laboratory
Kyungpook National University, South Korea.   September 01, 2020 - Present

Research Assistant, Virtual Reality Laboratory
Kyungpook National University, South Korea.   September 01, 2018 – August 31, 2020

Publications

1. **Md. Maklachur Rahman,** Md Rishad Ahmed, Lamyanba Laishram, Seock Ho Kim and Soon Ki Jung **"Siamese High-Level Feature Refine Network for Visual Object Tracking"**, MDPI Electronics (SCIE) [Q2, IF: 2.412] **[Revision Under Review]**

2. **Md. Maklachur Rahman**, Mustansar Fiaz, and Soon Ki Jung **"Efficient Visual Tracking with Stacked Channel-Spatial Attention Learning"**, IEEE Access, June 2020. (SCIE) [Q1, IF: 4.098]

3. Mustansar Fiaz, **Md. Maklachur Rahman**, Arif Mahmood, Sehar Shahzad Farooq, Ki Yeol Baek and Soon Ki Jung **"Adaptive Feature Selection Siamese Networks for Visual Tracking",** The **26th** International Workshop on Frontiers of Computer Vision (IW-FCV2020) February 2020. [Springer] **[Best Student Paper Award]**

4. **Md. Maklachur Rahman "A DWT, DCT and SVD Based Watermarking Technique to Protect the Image Piracy",** International Journal of Managing Public Sector Information and Communication Technologies, Vol. 4, No. 2, June 2013, pp 21-32. **[Citation: 55]**

5. **Md. Maklachur Rahman**, Md. Shale Ahmmed, Md. Rishad Ahmed, Mohammed Navid Izhar **"A Semi-Blind Watermarking Technique for Copyright Protection of Image Based on DCT and SVD Domain",** Global Journal of Researches in Engineering, GJRE-F, Volume 16, Issue 7 Version 1.0. December 2016. [**Citation: 10**]

6. Mohammad Ibrahim Khan, **Md. Maklachur Rahman** and Md. Iqbal Hasan Sarker, **"Digital Watermarking for Image Authentication Based on Combined DCT, DWT and SVD Transformation",** International Journal of Computer Science Issues, Vol. 10, Issue 3, No 1, May 2013, pp - 223-230. [**Citation: 51**]

7. **Md. Maklachur Rahman**, Soon Ki Jung **"Modeling a secure image authentication with a robust hybrid watermarking approach",** The Journal of Korean Institute of Information Scientists and Engineers, Korea Software Congress 2018, December.

Professional Experience

- **Software Engineer**, Software Engineering Lab
  Samsung R&D Institute Bangladesh, Ltd.   October 28, 2013 - July 20, 2016

- **Industrial Trainee**
  Sentinel Solutions Ltd.   November 30, 2012 - December 14, 2012

Projects (Selected):

- Siamese network for single object tracking.

- LSTM network for visual object tracking.

- Deep learning technique for skin lesion segmentation.

- SWC/DMC Project Test Suite and IoT Test FW Development.

- Tizen IDE Verification and Automation.

- Digital image watermarking using multiple transformation model.

- Multi-portion Image Encryption using RSA Algorithm.

Awards and Scholarships

- CSE THESIS AWARD-2020, KNU, South Korea [Prize Money: 750K Korean Won]   Aug. 11, 2020
- Best Student Paper Award, 26th IW-FCV2020, Japan.   Feb. 27, 2020
- Brain Korea 21 Plus (BK21) Scholarship.   Sept. 2018 – Aug. 2020
- KNU International Graduate Scholarship (KINGS) [Full].   Sept. 2018 – Aug. 2020
- University Merit Scholarship, Department of CSE, CUET.   Mar. 2009 - Sept. 2013