

MOHAMMAD RAIHANUL BASHAR

CONTACT INFORMATION

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RESEARCH INTERESTS

Natural Language Processing, Computer Vision, Reinforcement Learning, Cognitive Science, Deep Learning, Bayesian Machine Learning and Information Theory, Sequential Prediction, Dialogue Systems, Neuroscience, Artificial Intelligence

EDUCATION

JAN 2013 - AUG 2017 Independent University, Bangladesh
Bachelor of Computer Science
Thesis : Effect of EMG Artifacts on Video Category Classification from EEG
Supervisor : M. Ashraful Amin
CGPA : 3.49 (last 60 credit)

PUBLICATIONS

BOOK CHAPTERS

- Aunnoy K Mutasim, Rayhan Sardar Tipu, **Mohammad Raihanul Bashar**, Md Kafiul Islam, M. Ashraful Amin, "Pattern Recognition in EEG Signals", Computational Intelligence for Pattern Recognition, November 2017, Springer-Verlag.

CONFERENCES

- Aunnoy K Mutasim, **Mohammad Raihanul Bashar**, Rayhan Sardar Tipu, Md Kafiul Islam, M. Ashraful Amin, "Effect of Artefact Removal Techniques on EEG Signals for Video Category Classification", 24th International Conference on Pattern Recognition (ICPR).
- **Mohammad Raihanul Bashar**, Rayhan Sardar Tipu, Aunnoy K Mutasim, M. Ashraful Amin, "Effect of EMG Artifacts on Video Category Classification from EEG", Joint 2017 6th International Conference on Informatics, Electronics & Vision (ICIEV) & 1st International Conference on Imaging, Vision & Pattern Recognition (icIVPR).
- Aunnoy K Mutasim, Rayhan Sardar Tipu, **Mohammad Raihanul Bashar**, M. Ashraful Amin, "Video Category Classification Using Wireless EEG", The 10th International Conference on Brain Informatics (BI 2017).
- **Mohammad Raihanul Bashar**, Abul Al Arabi, Rayhan Sardar Tipu, Md Tanvir Alam Sifat, Md Zobair Ibnalam, M. Ashraful Amin. "2D Surface Mapping for Mine Detection via Wireless Networking". 2nd International Conference on Control and Robotics Engineering, (ICCRE 2017).

- Abul Al Arabi, Rayhan Sardar Tipu, **Mohammad Raihanul Bashar**, Binoy Barman, Shama Ali Monica, M. Ashraful Amin. "Implementation of Low Cost Stereo Humanoid Adaptive Vision for 3D positioning and Distance Measurement for Robotics Application with Self-calibration." 11th Asia Modelling Symposium, (AMS 2017).

RESEARCH EXPERIENCE

Apr 16 - Sep 17 | Independent University, Bangladesh
Undergraduate Research Assistant
Wireless EEG Signal Procession & Machine Learning
Supervisor : M. Ashraful Amin
Computer Vision & Cybernetics, BD
With the vision of building a BCI based video recommender system, we experimented with several state-of-the-art algorithms for each of the submodules (pre-processing, feature extraction, feature selection and classification) of the Signal Processing module of a BCI system in order to find out what combination of algorithms best predicts what type of video a person is watching.

WORK EXPERIENCE

Jan 18 - Apr 18 | Independent University, Bangladesh
Teaching Assistant
Data Mining
Faculty: Dr. Moinul Islam Zaber

Sep 18 - | Independent University, Bangladesh
Teaching Assistant
Image Processing & Pattern Recognition
Faculty: [M. Ashraful Amin](#)

AWARDS

NOV 2016 SECS Award, IUB
APRIL 2016 1st runner-up Nasa Space Apps Challenge 2016

SKILLS

- Programming Languages : Python; MATLAB; Java; C++; C#
- Software : Tensorflow; Keras; Theano; Cuda-Convnet; OpenCV; PyTorch
- Hardware Related : Arduino; Raspberry Pi;
- Languages : native/fluent in Bengali, English. Studying for French

INTERESTS & ACTIVITIES

Astrophysics, Philosophy, Psychology
Video Games, Photography, Cycling, Traveling, Hiking & Cooking.