

Abdullah Nazib

CONTACT INFORMATION

PhD Candidate (Thesis under review)

Biomedical Data Science Lab, EECS
Queensland University of Technology,
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RESEARCH INTEREST

Medical Image Analysis, Image Registration, Deep Learning

ACADEMIC QUALIFICATION

PhD (Thesis Submitted)

Biomedical Data Science Lab, (Under Data Science Discipline)
School of Electrical Engineering & Computer Science
Queensland University of Technology, Queensland-4000.

Thesis: Deep Learning for Registration of High Resolution 3D Brain Images. (Under review)

Master of Science in Electronics & Computer Engineering

Intelligent Image Media & Interfacing Lab
Chonnam National University, Gwangju, South Korea.
Graduated: February, 2015

Thesis: Multi Target Tracking with Context Consideration

Bachelor of Science in Information & Communication Engineering (October 2010)

Islamic University, Kushtia, Bangladesh

PUBLICATIONS

- [1] **Abdullah Nazib**, Clinton Fookes, Olivier Salvado, Dimitri Perrin, "A Multiple Decoder Architecture for Inverse Consistent 3D Image Registration ", [Preprint](#).
- [2] **Abdullah Nazib**, Clinton Fookes, Dimitri Perrin, "Dense Deformation Network for High Resolution Tissue Cleared Image Registration", *Under review*.
- [3] **Abdullah Nazib**, Clinton Fookes, Dimitri Perrin, "Towards Extreme Resolution Image Registration with Deep-Learning", IEEE International Symposium on Biomedical Imaging (ISBI 2019).

- [4] **Abdullah Nazib**, Clinton Fookes, Dimitri Perrin, ``Performance of Registration Tools on High-Resolution 3D Brain Images”, 40th IEEE Engineering in Biology and Medicine Conference (EMBC 2018), Hawaii, USA.
- [5] **Abdullah Nazib**, Chil-Woo Lee, ”Data Association With Context Graph”, 27th Workshop on Image Processing And Image Understanding, Jeju, Korea-2015.
- [6] **Abdullah Nazib**, Chil-Woo Lee, “*Object Tracking by Particle Support*”, 11th International Conference on Ubiquitous Robots and Ambient Intelligence-2014, Kuala Lumpur, Malaysia.
- [7] **Abdullah Nazib**, Chi-Min Oh, CW Lee, “*Entropy Histogram Based PCA-SHIFT Feature Filtering*”, 20th Korea-Japan Joint Workshop on Frontiers of Computer Vision, February, 2014, Okinawa, Japan.
- [8] **Abdullah Nazib**, Chi Min Oh, CW Lee, “*Object Detection and Tracking at Night Time Video Surveillance*”, 10th International Conference on Ubiquitous Robot and Ambient Intelligence, October, 2013, Jeju, Korea.
- [9] **Abdullah Nazib**, A.H.M Amimul Ahsan, Dr Mahbubur Rahman, ”*Evaluation of Information Theory in Analyzing DNA Sequence*”, International Journal of Computer And Information Technology, Vol:2 Issue:2, 2012, page-44-48
- [10] **Abdullah Nazib**, Mahbubur Rahman, ”*Simulation of Information Theoretic Basic Concepts in DNA Analysis*” International Conference on Electrical And Computer Engineering to be held on 20th December 2012, Dhaka, Bangladesh.
- [11] Chi Min Oh, **Abdullah Nazib**, Hao Xu, Joopil Moon, Chil Woo Lee, “*Centralization Problem of Contacting Interaction in Multiple Object Tracking*”, 21th Korea-Japan Joint Workshop on Frontiers of Computer Vision, February, 2015, Mokpu, Korea.
- [12] Chi-Min Oh, **Abdullah Nazib**, CW Lee, “*Multi-Touch Tracking using MRF-Particle Filter*”, Smart Media Conference, 2013, Iksan, Korea.
- [13] AHM Amimul Ahsan, **Abdullah Nazib**, M.K Hasan, “*An Optimization of Optical Imaging System using Remote Sensing*” International Journal of Computer and Information Technology, Vol:2, Issue:2, 2012, page-45-52.

SHORT PRESENTATIONS

- [1] **Abdullah Nazib**, “A new method of PCA-SHIFT Feature Filtering”, 8th International Workshop on Robust Computer Vision, KAIST, Korea, 2014.
- [2] **Abdullah Nazib**, “Object Tracking by Observer Association”, 8th Joint CNU-Gifu Symposium, Gwangju, Korea.

PROFESSIONAL EXPERIENCES

Data Science Intern TravelloApp, Brisbane, Australia

- Duties and Responsibilities:
 - Design and development of Ranking algorithm for TravelloApp using machine learning.
 - Optimising Ranking algorithm for personalisation.
 - Design the strategy to integrate developed algorithms with the Travello backend.

Sessional Academic Queensland University of Technology

- Tutored Courses:
 - IFN398: Project Management
 - IFB102: Computer Technology Fundamentals

Research Engineer, Robot Research Initiative (RRI), Gwangju South Korea. (www.rri.re.kr)

(February 2015-February 2016)

- Duties & Responsibilities:
 - Project Management in Medical Imaging
 - Analyze, design and developing image registration tools for Femur bone fracture robot a joint venture with Hyundai Robotics.
 - Designing, optimizing 2D-3D image registration algorithms.
- Project Works Conducted:
 - 2D-3D image registration for bone surgery robots (MatLab and C++)
 - Registration technique analysis tool development for X-Ray images (C++)

- **Optimization Tool Development: Gradient Descent, Conjugate Gradient, Simulated Annealing, Particle Swarm Optimization.**

Graduate Research Assistant, Image Media & Interfacing Lab

(March 2013-February 2015)

- Duties & Responsibilities:
 - Meeting Managers at the Lab
 - Analyze and conduct research in computer vision
 - Ensuring quality research through investigation and methodical analysis
- Project Works Conducted:
 - Development of Police Gesture Recognition System Using Microsoft Kinect with Processing.
 - Design A Human Tracking Framework for Night Time Using MatLab and C++.
 - Multi Target Tracking Framework based on Supporter, Matlab and C++.
 - Face Recognition Framework modeling by 2D-LDA
 - Entropy Histogram Based Filter design for robust feature selection.

Lecturer, Dept. of Computer Science & Engineering, at Asian University of Bangladesh

(October 2011-March 2013)

- Taught Courses:
 - CSE-2418: Design & Analysis of Algorithm.
 - CSE-1208: Programming Language & Application II.(C++)
- Lab:
 - CSE-2418: Design & Analysis of Algorithm.
 - CSE-1208: Programming Language & Application II.(C++)
 - CSE-2312: Object Oriented Programming.(C#)

AWARDS & ACHIEVEMENTS

QUT Post-Graduate Research Award 2016

Excellence Top-Up Scholarship-2016

Queensland University of Technology.

Graduate Research Scholarship-2013,

Chonnam National University

Brain Korea 21 Plus(BK21)- 2013 and 2014.

TECHNICAL

Programming Languages: C,C++, C#.Net, MatLab, Python

SKILLS

Toolkit: VTK, ITK, OpenCV, tensorflow.
Preferred IDE: MS Visual Studio, Spyder.
Operating System: Ubuntu 16.04 and Windows

LANGUAGE SKILL

English

IELTS Score-6.5
Listening-6.5 Reading-7 Writing-6 Speaking-6.5

Toeic Score 805
Reading-385, Listening-420

REFERENCES

Dr. Dimitri Perrin

Senior Lecturer, Data Science, EECS
Queensland University of Technology.
Email: dimitri.perrin@qut.edu.au

Clinton Fookes

Professor, Vision and Signal Processing
Queensland University of Technology.
Email: c.fookes@qut.edu.au

Chil-Woo Lee

Professor, Electronics and Computer Engineering
Chonnam National University, South Korea.
Email: leecw@chonnam.ac.kr

DECLARATION

I solemnly certify that all information stated in this resume is true and complete to the best of my knowledge. I authorize you to verify the information provided in this resume.

Sincerely Yours

Abdullah Nazib