

## Abdullah Nazib

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### CONTACT INFORMATION

#### **PhD Candidate (Thesis under review)**

Biomedical Data Science Lab, EECS  
Queensland University of Technology,  
Queensland-4000

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### RESEARCH INTEREST

**Medical Image Analysis, Image Registration, Deep Learning**

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### ACADEMIC QUALIFICATION

#### **PhD (Completion Data: 20th February, 2020)**

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.**

#### **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

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### PUBLICATIONS

- [1] **Abdullah Nazib**, Clinton Fookes, Olivier Salvado, Dimitri Perrin, "A Multiple Decoder Architecture for Inverse Consistent 3D Image Registration", submitted to ISBI 2020.
- [2] **Abdullah Nazib**, Clinton Fookes, Dimitri Perrin, "Dense Deformation Network for High Resolution Tissue Cleared Image Registration", [Preprint](#)
- [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", 40<sup>th</sup> IEEE Engineering in Biology and Medicine Conference (EMBC 2018), Hawaii, USA.
- [5] **Abdullah Nazib**, Chil-Woo Lee, "Data Association With Context Graph", 27<sup>th</sup> 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.

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## SHORT PRESENTATIONS

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

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## 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](http://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#)

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**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

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## LANGUAGE SKILL

### English

IELTS Score-6.5

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

Toeic Score 805

Reading-385, Listening-420

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## REFERENCES

### Dr. Dimitri Perrin

Senior Lecturer, Data Science, EECS  
Queensland University of Technology.  
Email: [dimitri.perrin@qut.edu.au](mailto:dimitri.perrin@qut.edu.au)

### Clinton Fookes

Professor, Vision and Signal Processing  
Queensland University of Technology.  
Email: [c.fookes@qut.edu.au](mailto:c.fookes@qut.edu.au)

### Chil-Woo Lee

Professor, Electronics and Computer Engineering  
Chonnam National University, South Korea.  
Email: [leecw@chonnam.ac.kr](mailto:leecw@chonnam.ac.kr)

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## 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**