

Tanapol Prucksakorn

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EDUCATION

- Japan Advanced Institute of Science and Technology** Ishikawa, Japan
 - Doctor of Philosophy (Ph.D.), Robotics, School of Information Science* Oct 2015 – Dec 2018
 - Master's degree, Robotics, School of Information Science* Oct 2013 – Sep 2015
- Sirindhorn International Institute of Technology, Thammasat University** Pathum Thani, Thailand
 - Bachelor's degree, Electronics and Communication Engineering* May 2009 – Apr 2013

EXPERIENCE

- QBIT Robotics** Tokyo, Japan
 - Robotics Engineer (Software Engineer)* Mar 2019 - Present
 - Omotenashi Engine:** Lead the team and create the foundation of Omotenashi Engine. Maintain and review the source code. The engine uses machine learning (PyTorch) to predict a speech that would provide high hospitality to customers. (Python)
 - Robot Restaurant OS:** Re-factored some of the existing codes to have higher readability and scalability. It is the core of the &robot café, a robot coffee/drink server. (Python)
- Japan Advanced Institute of Science and Technology** Ishikawa, Japan
 - Research Assistant* Nov 2014 - Apr 2018
 - Japanese-German Collaborative Research on Computational Neuroscience: Autonomous Learning of Active Depth Perception: from Neural Models to Humanoid Robots:** The main goal of the research is to implement a biological inspired active depth perception framework for robots which is developmental and has the ability of self-calibration. Main components of the research were sensory coding: active efficient coding theory, reinforcement learning, and neural network. (MATLAB, V-REP)
- Sirindhorn International Institute of Technology, Thammasat University** Pathum Thani, Thailand
 - Teaching Assistant* May 2012 – May 2013
 - Basic Electronics Lecture:** Gives a lecture on basic electronics.
 - Electronics Laboratory:** Helps and teaches students on basic electronics, such as connecting a circuit with various components.
 - Mobile Application Programming Course:** Helps students to create a mobile application with Xcode (Objective-C)
- Fabrinet CO.,LTD. Automotive Department** Pathum Thani, Thailand
 - Internship Student* Apr 2012 – Jun 2012
 - Quality Control Engineer:** Design a machine that detects a faulty part/spot of a car's LED headlight. Learn various kind of quality control related machines. Cooperate with the production line staffs.

AWARDS

- Japanese Government Scholarship Student (Monbukagakusho:MEXT) Oct 2014 – Oct 2018
- Young Scientist and Technologist Program (YSTP), Scholarship recipient by National Science and Technology Development Agenda (NSTDA) May 2012 – May 2013

PROJECTS

- Unmanned Aerial Vehicle (UAV) for Observing Landslide by using Quadrotor (2012-2013), UAV by using Tri-copter (2012):** The projects were done as a graduation project and course project respectively. The project focused on building the UAVs from scratch by using Arduino, XBee, IMU, ESC, and brush-less motor (MATLAB, C)

SKILLS

- Languages:** Thai: Native, English: Proficient, Japanese: Intermediate (JLPT N2)
- Programming Languages:** : Python, MATLAB, L^AT_EX, C, Java, PHP, C#
- Miscellaneous:** GNU/Linux, Git, PyTorch, Docker, AWS, NGINX, Django

PUBLICATIONS

Journal Paper

Tanapol Prucksakorn, Sungmoon Jeong, and Nak Young Chong, “A Self-Trainable Depth Perception Method from Eye Pursuit and Motion Parallax,” *Robotics and Autonomous Systems* (2018) Vol. 109, pp. 27-37.

International Conferences

Tanapol Prucksakorn, Sungmoon Jeong, and Nak Young Chong, “A Joint Learning Framework of Visual Sensory Representation, Eye Movements and Depth Representation for Developmental Robotic Agents,” in *International Conference on Neural Information Processing*, 2017 (pp. 867-876). Springer, Cham.

Tanapol Prucksakorn, Sungmoon Jeong, Jochen Triesch, Hosun Lee, and Nak Young Chong, “Self-calibrating active depth perception via motion parallax,” in *Development and Learning and Epigenetic Robotics (ICDL-EpiRob)*, 2016 Joint IEEE International Conference on (pp. 103-108). IEEE.

Tanapol Prucksakorn, Sungmoon Jeong, and Nak Young Chong, “Joint learning for smooth pursuit eye movement and motion parallax through active efficient coding,” in *Ubiquitous Robots and Ambient Intelligence (URAI)*, 2015 12th International Conference on (pp. 458-459). IEEE.

Tanapol Prucksakorn, Kriangkrai Wachirarattanakornkul, and Itthisek Nilkhamhang, “Unmanned aerial vehicle for observing landslide with iterative feedback tuning,” in *Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON)*, 2013 10th International Conference on. IEEE, 2013, pp. 1-5.