Yamato Miyatake https://www.miyatakeyama.to/

Introduction

I am an experienced professional in sensor development for driver assistance/automated driving. I have been working in this field at Bosch and have gained valuable skills and knowledge in this area.

In 2022, I received a Master of Engineering degree from Osaka University, where I studied Computer Vision, Robotics, Machine Learning, Signal Processing, and Human-Computer Interaction.

Along with my academic achievements, I have conducted research on haptic systems in Augmented Reality (AR) and 3D food printing for Food DX, providing me with hands-on experience in these cutting-edge technologies.

Education

Master of Engineering, *Osaka University, Japan* — March 2022
Division of Systems Science and Applied Informatics, Graduate School of Engineering Science,
Under advisory of *Prof. Kosuke Sato* and *Prof. Daisuke Iwai*

Bachelor of Engineering, *Osaka University, Japan* — March 2020
Division of Systems Science and Applied Informatics, School of Engineering Science,
Under advisory of *Prof. Kosuke Sato* and *Prof. Daisuke Iwai*

Associate Degree of Engeneering, *National Institute of Technology, Japan* — March 2018
Department of Electrical and Computer Engineering,
Under advisory of *Prof. Yasushi Kami*

Employment

Software Development Engineer (Radar and Camera), *Bosch, Japan* — April 2022 - Present
Research Engineer(Internship), *SONY, Japan* — February 2021 - March 2021
Teaching Assistant, *Osaka University, Japan* — April 2020 - August 2020
Software Engineer(Internship), *JAXA, Japan* — August 2017 - August 2017
Software Engineer(Internship), *APCAS, Sri Lanka* — March 2016 - April 2016

Skills

Software	Python (Pytorch), C++ , Matlab, OpenCV, Unity, React, Fusion360
Hardware	Micro controller, Sensors(Radar, video), 3D Printer

Publications

JOURNAL PAPER

1. `Yamato Miyatake`, Takefumi Hiraki, Daisuke Iwai, and Kosuke Sato. 'HaptoMapping: Visuo-Haptic Augmented Reality by Embedding User-Imperceptible Haptic Display Control Signals in a Projected Image', *IEEE Transaction on Visualization and Computer Graphics*, 2021

CONFERENCE PAPERS (full papers)

1. `Yamato Miyatake`, Parinya Punpongsanon, Daisuke Iwai, and Kosuke Sato. 'interiqr: Unobtrusive Edible Tags using Food 3D Printing', *The ACM Symposium on User Interface Software and Technology (UIST)*, 2022.

2. `Yamato Miyatake`, Takefumi Hiraki, Tomosuke Maeda, Daisuke Iwai, and Kosuke Sato. 'Visuo-Haptic Display by Embedding Imperceptible Spatial Haptic Information into Projected Images', *In Proceedings of EuroHaptics 2020*, 2020.

CONFERENCE PAPERS (short papers and demos)

1. `Yamato Miyatake`, Parinya Punpongsanon, Daisuke Iwai, and Kosuke Sato. 'Demonstration of interiqr: Unobtrusive Edible Tags using Food 3D Printing', *The ACM Symposium on User Interface Software and Technology (UIST)*, 2022.

2. `Yamato Miyatake`, Takefumi Hiraki, Tomosuke Maeda, Daisuke Iwai, and Kosuke Sato. 'HaptoMapping: Visuo-Haptic AR system using projection-based wearable haptic devices', *In ACM SIGGRAPH Asia 2020 Emerging Technologies*, 2020.