Samson Yu Bai Jian

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GitHub: SamsonYuBaiJian | **Google Scholar**: pYb0xhAAAAAJ

Research

A Survey Of Embodied AI: From Simulator To Research Tasks
Jiafei Duan, **Samson Yu**, Hui Li Tan, Hongyuan Zhu, Cheston Tan
arXiv 2021

Recognizing Emotion Cause in Conversations
Soujanya Poria, Navonil Majumder, Devamanyu Hazarika, Deepanway Ghosal, Rishabh Bhardwaj, **Samson Yu**, Romila Ghosh, Niyati Chhaya, Alexander Gelbukh, Rada Mihalcea
arXiv 2020

ActioNet: An Interactive End-to-End Platform for Task-Based Data Collection and Augmentation in 3D Environments
Jiafei Duan, **Samson Yu**, Hui Li Tn, Cheston Tan
ICIP 2020

Education

Singapore University of Technology and Design   **2017 – 2020**
· Bachelor of Engineering, Information Systems Technology and Design, Honours with Distinction
· Focus Tracks: Artificial Intelligence and Data Analytics

Work Experience

SUTD | Research Officer   **Oct 2020 – Present**
· Implementing a deep learning model that uses a knowledge base and text documents for question answering
SUTD | Undergraduate Research Assistant   **Sep 2019 – Aug 2020**
· Animated images of faces into videos displaying different facial expressions using different deep learning architectures and PyTorch
· Worked on experiments and visualisations for [truncated Gaussian mixture research](#)
A*STAR | Research Intern   **May 2019 – Dec 2019**
· Published a research paper for ActioNet in IEEE International Conference on Image Processing (ICIP) 2020
· Created [ActioNet](#), a 3D household-based task dataset that can be automatically augmented for randomised positions and different image sizes
· Customised Allen Institute for AI's AI2-THOR simulator by changing initial scene configurations

Projects

Video Frame Interpolation   **July 2020 – Aug 2020**
· [Video frame interpolation](#) by customising a state-of-the-art model with a discriminator from the Pix2Pix GAN
· Trained model on the Vimeo-90k dataset with lower inference time than state-of-the-art models
REDRO   **Jan 2020 – Aug 2020**
· Built an [autonomous shelf management robot](#) that uses computer vision
· Used the [YOLOv5 model](#) for robust object detection
· Created a custom dataset for the supermarket use case

Awards

SUTD ISTD Machine Learning Course Design Challenge Winner   **20 Dec 2019**
· Attained the best accuracies for POS tagging of English and Chinese sentences with an averaged perceptron in SUTD's 01.112 Machine Learning course
DBS X GovTech X SUTD Smart City Challenge 2019 2nd Runner-Up   **05 Apr 2019**
· [Automated calorie tracking](#) by integrating DBS PayLah! and Healthy 365 with deep learning

Certifications

AI for Industry - Practical Foundations in AI with Python (AI Singapore)   **Oct 2019**
Data Scientist with Python (DataCamp)   **Oct 2019**

Languages

English   Native proficiency
Mandarin   Full professional proficiency