YONGPENG CAO

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EDUCATION

EDUCATION		
Beijing University of Chemical Technology, Beijing, China		Sep 2016 - Jun 2020
B.S. in Mechanical Design, Ma	anufacturing and Automation (ME)	
The University of Tokyo, Tokyo, Japan		Sep 2020 - Sep 2022
M.Eng. in Mechanical Engine		
The University of Tokyo, Tokyo, Japan		Oct 2022 - presen
PhD. in Mechanical Engineeri	ng/Yamakawa Laboratory	
TECHNICAL SKILLS		
Programming Language:	Python (Intermediate, 4 years), C++ (Intermediate, 4 yea	rs)
Tools:Torch, ROS1/2, Docker, Git, Matlab		
Softwares & Others:	Solidworks, AutoCAD, LaTeX, Keil, IAR, Work with ele	ectronics soldering
WORK EXPERIENCE		
Jade Bird Fire, Beijing, Chin		Sep. 2019 - Jan. 2020
Intern Wireless Technology D	-	
The University of Tokyo, Tokyo, Japan		Jun. 2021 - Feb. 2022
Technical Assistant Ishikawa		
-Bimanual Coordination S	-	
	system and force feedback to improve human performance.	
The University of Tokyo, Tokyo, Japan		Jun. 2022 - Feb. 2023
Technical Assistant Ishikawa	- ·	
-Tobii Eye-tracker based N	Mobile Assistive Sensors System for People with Disabilities	on ROS.
Sony AI, Tokyo, Japan		Mar. 2023 - Aug. 2023
Robotics Intern Gastronomy	Project	
-Robot Arm Benchmark (UR, Panda) and motion planning on ROS1/2.	
-Robot Arm Dynamic Cor	ntroller Library Development on ROS2.	
Tokyo University of Science, Tokyo, Japan		Nov. 2023 - Mar. 2024
Technical Assistant Ishikawa	Group Laboratory	
PROJECTS		
Outdoor Electromagnetic Off-road Car		Oct. 2018 - Jul. 2019
- A MCU based mini-car, route	e planning by identifying electromagnetic coils	
	calization Algorithm Research (Undergraduate Thesis) d IMU module to build the VIO platform for UAV trajectory	Sep. 2019 - Jun. 2020 positioning
- Utilizing the high-speed visio	rediction Using High-speed Vision System (Master Thesis on system and OpenPose library to detect and track the human ck pattern prediction by LSTM method	· · ·
Real-time Human Motion Tr - Combination of the motion p	ansferring and Correcting System for Sports Training rediction and motion remapping to achieve real-time training ion Network and high frequency data to improve predicition	•
PUBLICATIONS		

Yongpeng Cao and Yuji Yamakawa: Marker-less Kendo Motion Prediction Using High-speed Dual-camera System and LSTM Method, 2022 IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM) (Sapporo, 2022.7.12)/Proceedings, pp.159-164 (2022)

Shouren Huang, **Yongpeng Cao**, Kenichi Murakami, Masatoshi Ishikawa, Yuji Yamakawa: Human-Robot Interaction and Collaboration Utilizing Voluntary Bimanual Coordination, (SMC2023) (Oahu, 2023.10.2) Proceedings. LANGUAGE PROFICIENCY

- TOEFL: 101

- Japanese Language Proficiency Test: N2