Assembly Challenge

HP etc.

O2AC (Japan)

Chukyo-U Hashimoto/Akizuki Lab



ものづくりカテゴリー

			 Jigless precisio environment and grensure precise posi is tracked and mini- high precision without systems. Human-like too Our robots use han humans, with high without special tool cameras take close success. 	 n - We use the ripper geometry to tioning. Uncertainty mized, allowing for out expensive vision ol use & seeing - d-held tools just like flexibility and changers. Wrist -up views to confirm 	Place Bea	ce	Push Hand-hooks	Aligned! Aligned! Aligneds Aligneds Aligneds Aligneds Aligneds
Introduction of your team[Inspiration & motivation][Future outlook]Introduction of your teamWe set out to prove that a flexible two-arm system can achieve industrial precision, without the need for expensive equipment. To this end, we founded an interdisciplinary team comprising two universities, a public research institute and a private company. Our code will be released publicly to benefit the community.Future outlook] - Free release of the system's source soft (ROS, MoveIt) - Open tool design - Talk at ROS World 2021								m's source ce software
Role	Name Affiliati		on/Title Specialty, Field of		study			
Team Lead	Felix von Drigalski Omron SINIC X Corporation		n	Robot Manipulation, System Design				
System Integrator	Chisato Nakashima Omron Corporation			System Design				
Vision	Toshio Ueshiba National Institute of Advanced In (AIST)		ndustrial Science and Technology	Robot Vision		Ż		EK
Hardware Design	Zhengtao Hu Osaka University			Mechanism design				
Vision	Shuichi Akizuki Chukyo University			3D Object Recognition			-	
Robot Control	Cristian Beltran Osaka University			Robot Manipulation, Reinforcement	Learning		100	1
Robot Control	Kazumi Kasaura Omron SINIC X Corporation		n	In-hand pose estimation			AT Y	
Vision	Manabu Hashimoto	Chukyo University		Robot & Computer Vision				
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Osaka-U Harada Lab

AIST HP

Omron SINIC X

Development point