YONGSEOP JEONG

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	ield Robotics Research Section, Artificial Intelligence Robot Research Division	Jul. 202
	Artificial Intelligence Creative Research Laboratory	
-		ar. 2023 – Jun. 20
	Postdoctoral Researcher Korea Advanced Institute of Science and Technology	
ſ	Multimodal Sensor Fusion / Autonomous Vehicle System Integration and Implementation	- 2010 Fab 2
	Co-Founder, Engineer 3SECONDZ Inc.	ır. 2019 – Feb. 2
	Self-driving Car Research & Development / Management of Government R&D Projects	
	• Registered Director (2018/06 – 2021/06)	
	 Director of Pangyo R&D Center (2020/06 – 2022/01) 	
	 Lead of Pilot Division (2022/01 – 2023/02) 	
	ATION Doctor of Philosophy Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea	Feb. 2
	Robotics, Future Vehicle	160.2
	Dissertation: Purpose-Built Sensor Fusion for Autonomous Vehicles (Supervisor: In So Kweon)	
		Feb. 2
	Master of Science in Engineering Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea	a
	Robotics Fhesis: An Integrated UGV and UAV Robot System for Effective Surveillance (Supervisor: In So Kweon)	
		Feb. 2
	Bachelor of Science in Engineering Sungkyunkwan University, Seoul, Republic of Korea	
	Electronic and Electrical Engineering	1.)
(Capstone Design: SODUC – Smart-Oriented Driving in the U-City (Advisor: Tae-Yong Kuc, Best Capstone Design Awar	ra)
ет т	CATION	
	ightweight Depth Completion Network with Local Similarity-Preserving Knowledge Distillation	
	(ongseop Jeong* , Jinsun Park*, Donghyeon Cho, Yoonjin Hwang, Seibum B. Choi, In So Kweon	
	Sensors 22 (19), 7388 · 2022/09/28 *Equal contribution	
	Adaptive Cost Volume Fusion Network for Multi-Modal Depth Estimation in Changing Environments Iinsun Park*, Yongseop Jeong*, Kyungdon Joo, Donghyeon Cho, In So Kweon	
	EEE Robotics and Automation Letters 7 (2), 5095-5102 · 2022/02/14 *Equal contribution	
	dentification of Vehicle Dynamics Model and Lever-Arm for Arbitrarily Mounted Motion Sensor	
	∕oonjin Hwang, Yongseop Jeong , In So Kweon, Seibum B. Choi EEE Sensors Journal 22 (10), 9843-9856 · 2021/12/28	
	Online Misalignment Estimation of Strapdown Navigation for Land Vehicle under Dynamic Condition	
	(oonjin Hwang, Yongseop Jeong , In So Kweon, Seibum B. Choi	
I	nternational Journal of Automotive Technology 22 (6), 1723-1733 · 2021/11/15	
	ane Detection Aided Online Dead Reckoning for GNSS Denied Environments	
	inhwan Jeon, Yoonjin Hwang, Yongseop Jeong, Sangdon Park, In So Kweon, Seibum B. Choi	
0	Sensors 21 (20), 6805 · 2021/10/13	
,	/isuomotor Understanding for Representation Learning of Driving Scenes	
	Seokju Lee, Junsik Kim, Tae-Hyun Oh, Yongseop Jeong , Donggeun Yoo, Stephen Lin, In So Kweon	
	n Proceedings of British Machine Vision Conference (BMVC) · 2019/09/09	
	SuraCar Turkey & Salf Driving Car that can Uandle Advance Meather Carditions	
	E ureCar Turbo: A Self-Driving Car that can Handle Adverse Weather Conditions Jnghui Lee, Jiwon Jung, Seunghak Shin, Yongseop Jeong , Kibaek Park, David Hyunchul Shim, In-so Kweon	
	n Proceedings of IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) · 2016/10/09	
	Relative Pose Estimation for an Integrated UGV-UAV Robot System	
	Congseop Jeong , In So Kweon n Proceedings of International Conference on Intelligent Polyotics and Applications (ICIPA), 2012/00/25	
I	n Proceedings of International Conference on Intelligent Robotics and Applications (ICIRA) \cdot 2013/09/25	
	Application of Self-Driving Cars for Testing Automotive Parts	

	Guide Dog: Development of Navigation AI Technology of a Guidance Robot for the Visually Impaired Person Participating Researcher, Lead Organization (Electronics and Telecommunications Research Institute) • Quadrupedal Robot Navigation	Jul. 2023 – Presen		
	Lightweight Network based Depth Completion for 3D Object Detection Participating Researcher, Lead Organization (3SECONDZ Inc.)	May. 2022 – Dec. 202		
	• Stereo Vision + LiDAR + RADAR sensor fusion system implementation for depth completion			
	Autonomous Vehicle for Tire Endurance Test on Proving Ground	Jul. 2021 – Jun. 202		
	Participating Researcher, Lead Organization (3SECONDZ Inc.)			
	 Converting mass-produced car into self-driving car (using vehicle CAN) 			
	 Sensor fusion system implementation for autonomous vehicle (Vision + GPS + IMU + Vehicle stock s Perform autonomous driving for tire endurance test in proving ground (1600km in 3 days) 	sensors)		
	Active Suspension System for Improvement over 5% Ride and Handling Performance using Road Surface and Road Shape Participating Researcher, Participating Organization (3SECONDZ Inc.)	Apr. 2019 – Dec. 202		
	 Mono-vision-based road surface classifier network design 			
	Mono-vision based road shape estimator implementation			
1	 Implementation of communication between vehicle ECU and designed system System integration with other modules 			
WA	RD			
	The 12 th Autonomous Vehicle Contest Hyundai Motor Group Passion Prize (#5), Korea Advanced Institute of Science and Technology EureCar Turbo	Oct. 2014		
	Student Design Showcase National Instruments	May. 2014		
1	Finalist, EureCar: Korea Advanced Institute of Science and Technology Self-Driving Car	111dy. 201		
	The 5 th Capstone Design Contest School of Information and Communication Engineering, Sungkyunkwan Univ Grand Prize (#1), SODUC: Smart-Oriented Driving in U-City	versity Nov. 2010		
	Robot Software Contest Korea Robotics Society (KROS) Silver Prize, ESOP (Easy Operation)	Aug. 2009		
	National Excellence Scholarship (Science & Engineering) Korea Student Aid Foundation Full Tuition Waiver	Mar. 200		
СТГ	VITY			
1	Speaker			
	 Future Mobility Technology Exchange (Korea Advanced Institute of Science and Technology) Freshmen Seminar (Kyung Hee University) 	Feb. 202 Dec. 202		
	Reviewer			
	• ETRI Journal (ISSN: 1225-6463)	Dec. 2024 – Presen		
	• Journal of the Korea Institute of Military Science and Technology (ISSN: 1598-9127)	Oct. 2022 – Presen		
	Teaching Assistant			
	PD513 Future Vehicle Capstone Design, Division of Future Vehicle, KAIST	Sep. 2013 – Dec. 2010		
REFE	ERENCE			
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