

# Il Hong Suh

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

562  
citations

1040056

9  
h-index

794594

19  
g-index

59  
all docs

59  
docs citations

59  
times ranked

588  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Goal-Driven Autonomous Exploration Through Deep Reinforcement Learning. IEEE Robotics and Automation Letters, 2022, 7, 730-737.  | 5.1  | 25        |
| 2  | Design and Implementation of Security Function According to Routing Method in Automotive Gateway. International Journal of Automotive Technology, 2021, 22, 19-25.                                 | 1.4  | 4         |
| 3  | Learning-Based Automation of Robotic Assembly for Smart Manufacturing. Proceedings of the IEEE, 2021, 109, 423-440.  | 21.3 | 16        |
| 4  | Information-Based Heuristics for Learned Goal-Driven Exploration and Mapping. , 2021, , .  |      | 2         |
| 5  | Integration of top-down and bottom-up visual processing using a recurrent convolutionalâ€deconvolutional neural network for semantic segmentation. Intelligent Service Robotics, 2020, 13, 87-97. | 2.6  | 2         |
| 6  | Progressive Feature Matching: Incremental Graph Construction and Optimization. IEEE Transactions on Image Processing, 2020, 29, 6992-7005.   | 9.8  | 21        |
| 7  | Fusion Drive: End-to-End Multi Modal Sensor Fusion for Guided Low-Cost Autonomous Vehicle. , 2020, , .   |      | 7         |
| 8  | Learning, Improving, and Generalizing Motor Skills for the Peg-in-Hole Tasks Based on Imitation Learning and Self-Learning. Applied Sciences (Switzerland), 2020, 10, 2719.                        | 2.5  | 14        |
| 9  | Goal-Oriented Obstacle Avoidance with Deep Reinforcement Learning in Continuous Action Space. Electronics (Switzerland), 2020, 9, 411.   | 3.1  | 26        |
| 10 | Time-optimized 3D Path Smoothing with Kinematic Constraints. International Journal of Control, Automation and Systems, 2020, 18, 1277-1287.  | 2.7  | 7         |
| 11 | Singulation of Objects in Cluttered Environment Using Dynamic Estimation of Physical Properties. Applied Sciences (Switzerland), 2019, 9, 3536.  | 2.5  | 5         |
| 12 | Active object search in an unknown large-scale environment using commonsense knowledge and spatial relations. Intelligent Service Robotics, 2019, 12, 371-380.                                     | 2.6  | 6         |
| 13 | Confidence random tree-based algorithm for mobile robot path planning considering the path length and safety. International Journal of Advanced Robotic Systems, 2019, 16, 172988141983817.        | 2.1  | 7         |
| 14 | Probabilistic Modeling of Reaction Force/Torque through Fourier Transform and Entropy Analysis. , 2019, , .  |      | 0         |
| 15 | Object Singulation by Nonlinear Pushing for Robotic Grasping. , 2019, , .  |      | 2         |
| 16 | Personalized Trip Planning Considering User Preferences and Environmental Variables with Uncertainty. IEICE Transactions on Information and Systems, 2019, E102.D, 2195-2204.                      | 0.7  | 1         |
| 17 | Relationship Between the Order for Motor Skill Transfer and Motion Complexity in Reinforcement Learning. IEEE Robotics and Automation Letters, 2019, 4, 293-300.                                   | 5.1  | 4         |
| 18 | Semantic Representation for Communication Between Human and Wireless Robot. Wireless Personal Communications, 2019, 105, 509-524.  | 2.7  | 1         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Modeling Social Interaction Based on Joint Motion Significance. , 2018, , .   |     | 0         |
| 20 | Real-time Locomotion Controller using an Inverted Pendulum-based Abstract Model. Computer Graphics Forum, 2018, 37, 287-296.                            | 3.0 | 9         |
| 21 | Tracking human-like natural motion by combining two deep recurrent neural networks with Kalman filter. Intelligent Service Robotics, 2018, 11, 313-322. | 2.6 | 4         |
| 22 | Measuring motion significance and motion complexity. Information Sciences, 2017, 388-389, 84-98.  | 6.9 | 7         |
| 23 | Bezier Curve-Based Smoothing for Path Planner with Curvature Constraint. , 2017, , .  |     | 19        |
| 24 | Motion codeword generation using selective subsequence clustering for human action recognition. Intelligent Service Robotics, 2017, 10, 41-54.          | 2.6 | 0         |
| 25 | Adaptive time scaling to guarantee temporal constraints based on motion significance. , 2017, , .   |     | 1         |
| 26 | Unified image retrieval and keypoint matching by local geometric consistency and non-linear diffusion. , 2017, , .                                      |     | 0         |
| 27 | Real-time grasp planning based on motion field graph for human-robot cooperation. , 2016, , .   |     | 3         |
| 28 | A scene-based dependable indoor navigation system. , 2016, , .  |     | 8         |
| 29 | Keyframe-based online object learning and detection. , 2016, , .  |     | 0         |
| 30 | Representation and reproduction of skills to adapt affine variations in programming by demonstration. , 2016, , .                                       |     | 0         |
| 31 | Powered upper-limb control using passivity-based nonlinear disturbance observer for unknown payload carrying applications. , 2016, , .                  |     | 6         |
| 32 | Probabilistic tourist trip-planning with time-dependent human and environmental factors. , 2016, , .  |     | 3         |
| 33 | Incremental learning from a single seed image for object detection. , 2015, , .   |     | 2         |
| 34 | Autonomous framework for segmenting robot trajectories of manipulation task. Autonomous Robots, 2015, 38, 107-141.                                      | 4.8 | 40        |
| 35 | Enhancement of Layered Hidden Markov Model by brain-inspired feedback mechanism. , 2014, , .  |     | 0         |
| 36 | Complexity-based motion features and their applications to action recognition by hierarchical spatio-temporal naive Bayes classifier. , 2014, , .       |     | 1         |

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|----|---|-----|-----------|
| 37 | Issues on simultaneous use of multiple structured light-based RGBD sensors in 3D environmental reconstruction. , 2014, , .  |     | 0         |
| 38 | Outdoor place recognition in urban environments using straight lines. , 2014, , .   |     | 60        |
| 39 | Learning of motor skills based on grossness and fineness of movements in daily-life tasks. , 2014, , .  |     | 3         |
| 40 | Learning of social skills for Human-Robot Interaction by hierarchical HMM and interaction dynamics. , 2014, , .   |     | 1         |
| 41 | Place recognition using straight lines for vision-based SLAM. , 2013, , .   |     | 14        |
| 42 | Personalized robotic service using N-gram affective Event model. , 2013, , .  |     | 1         |
| 43 | Proactive planning using a hybrid temporal influence diagram for human assistive robots. , 2013, , .  |     | 6         |
| 44 | Evaluating movement skills from extended neural complexity. , 2012, , .   |     | 2         |
| 45 | Dependable dense stereo matching by both two-layer recurrent process and chaining search. , 2012, , .   |     | 0         |
| 46 | Semantic mapping and navigation with visual planar landmarks. , 2012, , .   |     | 1         |
| 47 | A temporal Bayesian network with application to design of a proactive robotic assistant. , 2012, , .  |     | 14        |
| 48 | Lateral and feedback schemes for the inhibition of false-positive responses in edge orientation channels. , 2012, , .   |     | 1         |
| 49 | Loop closure through vanishing points in a line-based monocular SLAM. , 2012, , .   |     | 20        |
| 50 | Visual Recognition of Types of Corridor Segments for Mobile Robots. Advanced Robotics, 2012, 26, 1915-1937.   | 1.8 | 4         |
| 51 | A vertical and floor line-based monocular SLAM system for corridor environments. International Journal of Control, Automation and Systems, 2012, 10, 547-557.                       | 2.7 | 23        |
| 52 | Ontology-Based Unified Robot Knowledge for Service Robots in Indoor Environments. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2011, 41, 492-509. | 2.9 | 121       |
| 53 | SSPQL: Stochastic shortest path-based Q-learning. International Journal of Control, Automation and Systems, 2011, 9, 328-338.   | 2.7 | 8         |
| 54 | Robust robot knowledge instantiation for intelligent service robots. Intelligent Service Robotics, 2010, 3, 115-123.  | 2.6 | 16        |

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|----|--|-----|-----------|
| 55 | SoF-SLAM: Segments-on-Floor-based monocular SLAM. , 2010, , .  |     | 5         |
| 56 | Service-oriented context reasoning incorporating patterns and knowledge for understanding human-augmented situations. , 2010, , .                            |     | 3         |
| 57 | Development of a Roboid component for Player/Stage Robot Simulator. , 2009, , .  |     | 3         |
| 58 | Robust object recognition using a color co-occurrence histogram and the spatial relations of image patches. Artificial Life and Robotics, 2009, 13, 488-492. | 1.2 | 1         |
| 59 | Hierarchical Abstraction of World Elements and Behaviors for efficient task planning of a mobile robot. , 2008, , .  |     | 2         |