

Jin Han Lee
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Objective

To pursue a robotics, machine learning, computer vision related research position

Education

Aug. 2005 – Present	Computer Science MS student, Georgia Institute of Technology • Advisor: Dr. Tucker Balch • Current GPA 3.66 out of 4.0	Atlanta, GA
Jan. 2003 – Mar. 2005	B.S. in Computer Science, Illinois Institute of Technology(May 2005) • Graduated with GPA of 3.89 out of 4.0	Chicago, IL
Mar. 1997 – Feb. 2005	B.S. in Computer Engineering, Ajou University (Feb 2005) • Graduated with GPA of 3.9 out of 4.5	Suwon, Korea

Awards

JDean's List at IIT, International Student Scholarship at IIT, High Honor Student Award

Work Experience

Jun. 2006 – Aug. 2006	Summer Intern, LG Electronics • Contributed to the PDA research and development team by implementing performance testing software for PDA	Seoul, Korea
Jul. 1999 – Jan. 2002	Computer specialist/Sergeant, Republic of Korea Air Force, Korea	Cheongju, Korea

Research and Projects

- Geometric Topology-based Path Planning using morphological operations, Jan. 2007 – Present (Advisor: Dr. Tucker Balch)
: Creating topological graph for representation of traversability map and improving efficiency of path planning
- Creation of Graph Based Traversable Path Using Multiple Aerial Images (Advisor: Dr. Tucker Balch)
: Building efficient and fast interactive system for labeling and segmenting multiple aerial Images using Graph-Cut and KNN and generating graph based representation of robot's traversable path
- Particle Filter Based Pose Estimation (Advisor: Dr. Tucker Balch)
: Building efficient particle filter based pose estimator of UGV for the new DARPA Grand Challenge project with Mean-Shift and KLD-Sampling for reduction of computational complexity
- Survey on Indoor Location Based System (ILBS), Aug. 2005 – Dec. 2005 (Advisor: Dr. Ling Liu)
- Building Georgia Tech's search and rescue robot for 2006 US Robot Cup, Jan. – Mar. 2006 (Advisor: Dr. Tucker Balch)
: implemented image processing part for the project and participated in Robot Cup 2006
- Adaptation of the IIT Intranet Mediator to support the US Holocaust Memorial Museum Archives, Jan. – Mar. 2005
: Modified the IIT Mediator -software tool enabling to integrate structured, unstructured and semi-structured data- to fit the unique needs of the USHMM archives
- Building Web based IIT IPRO Knowledge Management System (KMS), Jan. – Mar. 2004
: Designed and implemented KMS for IIT Inter-professional projects to replace binder storage system and to effectively storage, search, and manage project data via web

Skills

Operating System: Windows, Linux, and Unix

Programming Language: C, C++, Java, Python, Matlab, XML, TCP/IP networking

Library: OpenGL, Weka, and Processing

Language: Fluent in Korean