

Jinsuck Kim

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- Education**
- **Ph.D.**, Department of Computer Science, Texas A&M University, College Station, TX, *expected May 2004*
Thesis Topic: Mobile Robot Navigation and Localization
Advisor: Nancy M. Amato
 - **M.S.**, Department of Aeronautics and Astronautics Engineering, Purdue University, West Lafayette, IN, *August 1998*
Thesis Topic: Feedback Control of Underactuated Robotic Manipulator
Advisor: Martin Corless
 - **B.S.**, Department of Aerospace Engineering, Inha University, Incheon, South Korea, *February 1996*
- Honors, Scholarship**
- Academic Excellence Scholarship, Korean Airline Company, 1995
 - Honor Student, Inha University, 1994 and 1995
- Professional Experience**
- **2000 ~ present, Research Assistant**, Dept. of Computer Science, Texas A&M
 - Main topic: Mobile Robot Navigation and Localization.
 - Work: algorithm design, software development, and hardware experiments.
 - Supervised four students developing Campus Navigator (web-based route planner).
 - **1999, Research Assistant**, Aerospace Engineering Department, Texas A&M University
 - Main topic: Spacecraft Attitude Determination using GPS Carrier Wave.
 - Work: Implementing Matlab program
 - Part of International Space Station (ISS) Project by NASA
 - **Mentoring Undergraduate Student Research Projects**, Dept. of Computer Science, Texas A&M University
 - 2000 ~ May 2003, Roger A. Pearce, Undergraduate Summer Research Program (USRG) and University Undergraduate Fellows Program (senior honor thesis).
 - Rodrigo Perin (2001, USRG – Sonar sensors)
 - Sandhu S. Bharatinder (2001 USRG and 2003 – GUI for mobile robots)
 - Nick Downing (2003, Undergraduate Directed Study – Roadmap editor)

- Publications**
- **Peer Reviewed Conferences and Journals**

Jinsuck Kim, Roger A. Pearce, Nancy M. Amato, “Feature-Based Localization using Scannable Visibility Sectors”, *Proceedings of the 2003 IEEE International Conference on Robotics and Automation (ICRA '03)*, to appear

Jinsuck Kim, Roger A. Pearce, Nancy M. Amato, “Extracting Optimal Paths from Roadmaps for Motion Planning”, *Proceedings of the 2003 IEEE International Conference on Robotics and Automation (ICRA '03)*, to appear

Jinsuck Kim, Roger A. Pearce, Nancy M. Amato, “Robust Geometric-Based Localization in Indoor Environments Using Sonar Sensors”, *Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS '02)* vol 1, pp. 421-426.

Jinsuck Kim, Nancy Amato, Sooyong Lee, “An Integrated Mobile Robot Path (Re)Planner and Localizer for Personal Robots”, *Proceedings of the 2001 IEEE International Conference on Robotics and Automation (ICRA '01)*, pp. 3789-3794.

Jinsuck Kim, Roger A. Pearce, Nancy Amato, Sooyong Lee, “An Integrated Mobile Robot Localizer and Navigator using Range Sensors and Geometric Features”, *Submitted to IEEE Transactions on Robotics and Automation*
 - **Technical Reports**

Jinsuck Kim, John L. Crassidis, Curtis Webb, “Autonomous Attitude Determination for ISS Application Using Pseudolite Signals”, *Project Report Submitted to National Aeronautics and Space Administration*, Lyndon B. Johnson Space Center, Houston, TX, November 1999
 - **Thesis**

Jinsuck Kim, “*Underactuated Control of Two-Link Manipulator*”, **M.S. Thesis**, Department of Aeronautics and Astronautics, Purdue University, 1998
- Computer Skills**
- Operating systems : MS-DOS, Windows, Linux, Solaris, IRIX
 - Programming Languages: C/C++, Assembly (Motorola 6502, Intel x86)
 - Computational Tools: MatLab, Mathematica, LEDA, CGAL
 - Hardware Interface: MatLab Realtime Workshop, SAPHIRA
 - Graphics: OpenGL, Microsoft Windows SDK, LEDA, 3D Studio
 - Web/IT: PHP, MySQL
- Activities**
- **Professional**
 - Reviewer for Papers Submitted to ICRA 2002/2003, IROS 2002/2003, IEEE Transactions on Robotics and Automation
 - Contributed to Development of AmigoBot Sonar Sensor Module for ‘Player’, a Robot Server/Client System Developed in USC Robotics Research Lab, 2002
 - Displayed Graduate Research in BEST (Boosting Engineering, Science, and Technology) Competition, 2001 and 2002
 - Programming Lecturer of Computer Club in Aerospace Engineering Department, Inha University, Korea, 1993~1995
 - Served in Korean Army, 1991~1992
- References** Available upon request