Jing DONG

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OBJECTIVE To obtain a 2017 summer research intern position in Robotics or Computer Vision, with special interest in Simultaneous Localization and Mapping (SLAM), 3D reconstruction, sensor fusion, and motion planning.

SKILLS Programming: C++(Preferred, 4 years), C(8 years), MATLAB(8 years), CUDA(3 months), Python(3 months)
Robotics Software: ROS(4 years), OpenCV(6 years), GTSAM(4 years)

EDUCATION

Georgia Institute of Technology, Atlanta, GA Aug 2013 - Aug 2018 (Expected)
Ph.D., Computer Science, GPA: 3.88/4.0
- Advisor: Frank Dellaert, Ph.D. & Byron Boots, Ph.D.

Tsinghua University, Beijing, China Aug 2008 - July 2012
B.E., Engineering Mechanics and Aerospace Engineering, GPA: 91.8/100.0

EXPERIENCE

Graduate Research Assistant Aug 2013 - Present
Institute for Robotics & Intelligent Machines, Georgia Institute of Technology, Atlanta, GA
Supervisor: Frank Dellaert, Ph.D. & Byron Boots, Ph.D.
- Project: 3D reconstruction/crop analysis over time using computer vision in precision agriculture.
- Project: Real-time motion planning as a probabilistic inference framework on high DOF systems.
- Project: Real-time distributed 2D laser mapping on multi quadrotors.

Robotics Intern May 2015 - Aug 2015
iRobot Corporation, Bedford, MA
Supervisor: Scott Lenser, Ph.D.
- Project: Computer vision based 3D mapping and localization.

Visiting Student May 2014 - Aug 2014
Robotics Institute, Carnegie Mellon University, Pittsburgh, PA
Supervisor: Nathan Michael, Ph.D.
- Project: Built a multi quadrotors system for distributed and cooperative mapping.

Undergraduate Research Assistant Aug 2010 - July 2012
School of Aerospace, Tsinghua University, Beijing, China
Supervisor: Haixin Chen, Ph.D.
- Project: Designed a quadrotor platform and an autopilot.
- Project: Heavy-lift aircraft design and Computational Fluid Dynamics (CFD) analysis.

PUBLICATION

1. **J. Dong**, M. Mukadam, F. Dellaert, B, Boots, Motion Planning as Probabilistic Inference using Gaussian Processes and Factor Graphs. In *Robotics: Science and Systems (RSS)*, 2016.
2. V. Indelman, E. Nelson, **J. Dong**, N. Michael, F. Dellaert, Incremental Distributed Inference from Arbitrary Poses and Unknown Data Association: Using Collaborating Robots to Establish a Common Reference. In *IEEE Control Systems*, 2016.
3. **J. Dong**, E. Nelson, V. Indelman, N. Michael, F. Dellaert, Distributed Real-time Cooperative Localization and Mapping using an Uncertainty-Aware Expectation Maximization Approach. In *IEEE International Conference on Robotics and Automation (ICRA)*, 2015.
4. L. Carlone, **J. Dong**, S. Fenu, G. C. Rains, F. Dellaert, Towards 4D Crop Analysis in Precision Agriculture: Estimating Plant Height and Crown Radius over Time via Expectation-Maximization. In *ICRA Workshop on Robotics in Agriculture*, 2015.

PREPRINT

1. **J. Dong**, J. G. Burnham, B, Boots, G. C. Rains, F. Dellaert, 4D Crop Monitoring: Spatio-Temporal Reconstruction for Agriculture. Submitted to *IEEE International Conference on Robotics and Automation (ICRA)*, 2017.