

## **Jian Jin**

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225 S. University St., West Lafayette, IN, 47907

### **PROFESSIONAL EXPERIENCE:**

08/2015-present: **Assistant Professor**

Department of Agricultural and Biological Engineering, **Purdue University**

Research Area: Sensor/Imaging for Plant Phenotyping

06/2010-08/2015: **Research Scientist / Technology Leader**

Analytical-Genomics Technologies, **DuPont Pioneer**

Leading DuPont Pioneer's Hyperspectral Imaging projects in greenhouse for crop plant phenotyping.

### **EDUCATION:**

2005-2009: PhD in Agricultural and Biosystems Engineering, Iowa State University

2003-2005: ME in Computer Engineering, Denmark Technical University

1999-2003: BS in Computer Science, Zhejiang University

### **AWARDS AND LEADERSHIP**

Vice President of IET-348 Electromagnetics and Spectroscopy Committee, American Society of Agricultural and Biological Engineers. (2012-present)

Vice President of IET-318 Mechatronics and Biorobotics Committee, American Society of Agricultural and Biological Engineers. (2011-present)

Vice President of Iowa Chinese In Agriculture (2012-2013)

University Research Excellence Award, Iowa State University, 2009

President of International Student Council of Iowa State University (2008-2009)

Outstanding Leadership Award, Iowa State University, 2008

Community Leadership Award, with Certificate of Recognition from Iowa Governor Chester J. Culver, 2007

### **INVENTIONS/PATENTS**

3 DuPont Pioneer Internal CMI's (Confidential Memorandum Invention)

Crop Stand Analyzer Using Reflective Laser Proximity Sensors, Invention Disclosure (ISURF #04224), Mar 27, 2014

## PUBLICATIONS

- 1) Jian Jin and Lie Tang. 2009. Corn Plant Sensing Using Real-Time Stereo Vision. *Journal of Field Robotics*, Volume 26, Issue 6-7, Pages 591-608.
- 2) Jian Jin, Lie Tang, Zuzana Hruska, Haibo Yao. 2009. Classification of Toxigenic and Atoxigenic Strains of *Aspergillus Flavus* with Hyperspectral Imaging. *Computers and Electronics in Agriculture*, Volume 69, Issue 2, Pages 158-164.
- 3) Jian Jin and Lie Tang. 2010. Optimal Coverage Path Planning for Arable Farming on 2D Surfaces. *Transactions of the ASABE*. 53(1): 283-295.
- 4) Jian Jin and Lie Tang. 2011. Coverage Path Planning on Three-dimensional Terrain for Arable Farming. *Journal of Field Robotics*, Volume 28, Issue 3, Pages 424-440.
- 5) Jin, J., L. Tang. 2006. Optimal path planning for arable farming. ASABE Paper No. 061158, St. Joseph, MI.
- 6) Jin, J., L. Tang. 2007. 3D terrain modeling with discrete elevation points. ASABE Paper No. 071008, St. Joseph, MI.
- 7) Jin, J., L. Tang, S. Han. 2007. Corn plant population sensing using real-time 3D vision. ASABE Paper No. 073130, St. Joseph, MI.
- 8) Jin, J., L. Tang, S. Han. 2007. Corn plant population sensing with laser proximity sensor array. ASABE Paper No. 073131, St. Joseph, MI.
- 9) Jin, J., H. Yao, L. Tang. 2007. Classification of toxigenic and atoxigenic strains of *A.flavus* with hyperspectral imaging. ASABE Paper No. 073024, St. Joseph, MI.
- 10) Jin, J. and L. Tang. 2008 Optimal planning for farming on 3D terrain. ASABE Paper No. 084516, St. Joseph, MI.
- 11) Jin, J. and L. Tang. 2008. Crop plants recognition and spacing sensing with real-time 3D vision. ASABE Paper No. 084517, St. Joseph, MI.
- 12) Jin, J. and L. Tang. 2010. Optimal Coverage Path Planning on 3D Terrain. ASABE Paper No. 1009220, St. Joseph, MI.