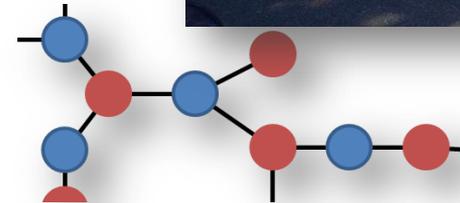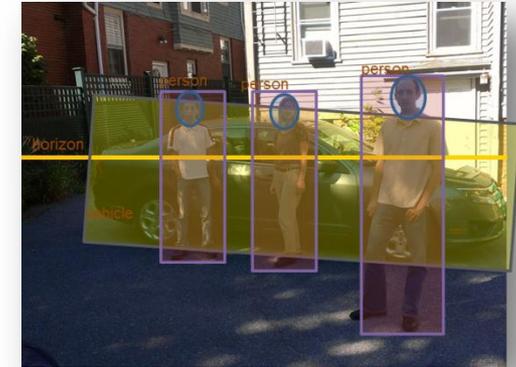# Vision Systems, Inc.

- Lead Investigator: Dr. Daniel Crispell
- Vision Systems, Inc.
  - Small Research-focused startup (Providence, RI)
  - Current performers on contracts with DoD and IC organizations (IARPA, DARPA, AFRL, NGA)
  - Prof. Joseph L. Mundy (Vision Systems, Inc.)

  - Dr. Vishal Jain (Vision Systems, Inc.)

  - Dr. Ozge Can Ozcanli (Vision Systems, Inc.)

Research Areas of Interest

- Probabilistic 3-D Scene understanding
  - Single-Image scene understanding
    - Use of Higher level reasoning to improve results of "low level" computer vision algorithms
    - Graphical models / Optimization and Inference algorithms
    - Machine Learning
    - Geo-location via 2-d to 3-d matching
  - Multi-view scene understanding
    - Probabilistic 3-D Modeling
    - Change Detection
    - Geo-location
- Real-Time Computer Vision
  - GPGPU
  - Distributed Processing

Expertise / Qualifications

- Prof. Joseph L. Mundy
  - Over 100 Publication in CV and Solid State Electronics
  - Extensive experience in single and multiple view 3-D reconstruction research
  - Over 40 years experience leading research groups in Industry and Academia

- Dr. Daniel Crispell
  - Publications in 3-D reconstruction, registration, change detection
  - Developed belief propagation framework for single image scene understanding under DARPA VMR program

- Dr. Vishal Jain
  - Publications: Tracking, 3-D reconstruction, GPGPU
  - Developed real-time 3-D volumetric reconstruction and change detection algorithms using GPU under AFRL Tailwind program

- Dr. Ozge Can Ozcanli
  - Publications: Classification, Change detection, Image content-based Retrieval
  - Developed single image geolocation capability based on 2-d/3-d matching under IARPA Finder program

- **Proven Track Record**
  - Successful performance on several DoD/IC research programs

Join Us!

- Interested in Industry or Academic Partners
  - Focused on 3-D context for improved scene understanding
  - Looking for:
    - 3-D Anthropometric Human Body modeling
      - Single image
      - Video
    - Face modeling and recognition "in the wild"

Contact Information

- Daniel Crispell, Ph.D.

- Vision Scientist

- Vision Systems, Inc.

- dan@visionsystemsinc.com

- (845) 820 - 3668

- http://www.visionsystemsinc.com