



Faculty Member

Timken Foundation Center for Precision Manufacturing

Contact Information



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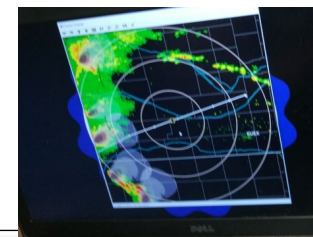
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Research Interests

- Data Analytics and Visualization
- Cognitive Systems Engineering
- Ergonomics and Safety
- Decision Analysis
- Training Technology Development
- Statistical Quality Control
- Usability Evaluation/Testing

Sample Research I: Integrated Dynamic Pilot Display to Support Decision Making (funded by the FAA)

- We developed a dynamic display using Python to be integrated with the flight simulator and visualize multiple sources of information for pilot decision support.
- The integrated weather display provided real-time decision support to pilots and allow them to make better decisions in severe weather threats.
- Integrated information visualization will effectively help decision makers with their tasks.



Sample Research II: Development of Training for Air Traffic Controllers

- We developed a scenario-based training program to simulate air traffic and weather dynamics for air traffic controller training
- Effective training enhances the operator's task performance and reduces mental workload.

