ISSUE
05
JANUARY
2022

MONTHLY NEWSLETTER
FROM THE
Jim McNatt Institute for Logistics Research

Proposal Update

this issue

JIM MCNATT INSTITUTE FOR LOGISTICS RESEARCH

Research BREAKS Sessions

All UNT researchers are invited to participate in a new research education series every first and third Thursday of the month. Each session will be led by a topic expert in the field in order to elevate best practices, while answering some of the most frequently asked questions by UNT researchers related to the topic. These hour-long discussions are a comfortable conversation where no question is too basic, too simple, or too complicated. Our team of research experts will bring the conversation topics to the researchers.

Research BREAKS for January:

National Science Foundation REU Program - For Faculty Mentors

Thursday, January 20

4:00 to 5:00 PM

Held via Zoom

More info RSVP

UPDATE TO NSF PROPOSAL TEMPLATES

The National Science Foundation has updated its templates for the Biosketch, Collaborative and Other Affiliations (COA) form, and Current and Pending (CPS) form.

Additional information and the updated templates are available in the links below:

BIOSKETCH

COLLABORATORS AND OTHER AFFILIATIONS

CURRENT AND PENDING SUPPORT

Proposals and Opportunities

Funding Opportunities

If interested in applying, please email Kathy Dreyer

Proposal Title/Topic: Incorporating New Mobility Options into Travel Demand Forecasting and Modeling
Funding Agency: Transportation Research Board
Proposal Due Date: Monday, February 7, 2022

Proposal Title/Topic: Data Protection and Privacy Management Guidelines for Airports
Funding Agency: Transportation Research Board
Proposal Due Date: Thursday, February 10, 2022

Selected List of Proposals Submitted in December

Proposal Title/Topic: MUREP- High Volume
Funding Agency: NASA
Proposal Title/Topic: Multi-echelon Inventory Optimization
Funding Agency: Shaw Communications

Proposals in Development

Proposal Title/Topic: Science of Organizations
Funding Agency: NSF
Proposal Due Date: Friday, February 2, 2021

Proposal Title/Topic: Future of Work at the Human Technology Frontiers
Funding Agency: NSF
Proposal Due Date: Friday, February 25

Research Profile: Vipul Garg

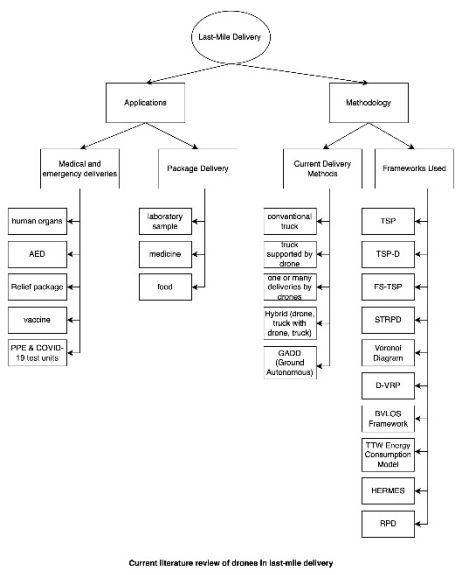
Background:
Mr. Vipul Garg is a second-year logistics doctoral student at the G. Brint Ryan College of Business. Prior to pursuing his PhD, he worked as a Data Scientist and co-founded start-ups in India. He holds a master's degree in data science and a bachelor's degree in computer science.

Research Interests:

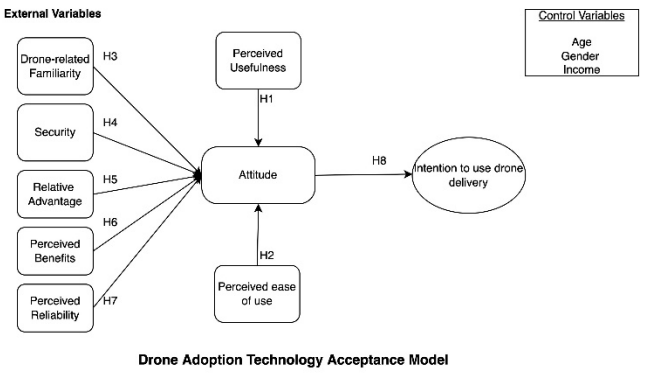
- UAVs and last mile delivery
- Modeling and simulation of autonomous mobile robots
- Consumer behavior and marketing
- Supply chain analytics

Research Summary: Drones, also known as unmanned aerial vehicles (UAVs), are having an increasing impact on our lives, from food delivery to delivering aid packages in the event of a pandemic.Most retailers are gearing towards aerial deliveries of food, packages, and prescription drugs. Wing, a Google affiliate, is now experimenting with drone deliveries in Frisco. Drones will have a big impact on our everyday lives. Other critical applications include public safety and emergency response in our opinion. The Choctaw Nation of Oklahoma, for example, utilizes drones for crop inspection, which has resulted in a 200 percent increase in yield.

We are currently engaged in several innovative projects that demonstrate the benefits of drones. For instance, we conducted a study of US customers and determined that the vast majority support the use of drones to transport prescription medications and medical supplies. Based on the previous findings, we are now conducting various surveys to ascertain the perceptions of UAV manufacturers and suppliers based on the findings. A current comprehensive literature review is also conducted to help academia and industry better grasp the current state of drones, particularly in terms of supply chain and logistics. The collective findings will assist us in mapping the supply chain, which has the potential to be extended to different sectors.



Current literature review of drones in last-mile delivery



Drone Adoption Technology Acceptance Model