

Institute of Transportation Engineers - SF Bay Area Section 2018 Annual Student Paper Competition



Please choose one of the following topics:

1. Transportation Network Companies
2. Usage Based Insurance (UBI) Schemes
3. Goods Movement
4. Journal Article Critique



Due Date: March 16, 2018 5:00 PM

ELIGIBILITY

- A student member of ITE during the school year 2017-2018.
- Full-time student enrolled in Engineering/Planning curriculum.

PAPER FORMAT

- Paper must be original work, not previously written for any other purposes.
- Must be written in the English language.

PAPER SUBMITTAL

- All entries must include your name, address, email, telephone number, college/university, major, number of units currently enrolled, and ITE membership number. If you're not an ITE student member you can join for free at www.ite.org/membership
- The winning papers will be chosen on or before March 30, 2018. The entries will be judged based on content, clarity, style, and creativity. The Grand Prize Winner MUST attend and present the "Winning Paper" at the May 17, 2018 SF Bay Area Section Lunch Meeting.
- All student paper entrants will receive a free lunch at the May 2018 ITE San Francisco Bay Area Section Meeting

TOPICS

1. Transportation Network Companies such as Uber and Lyft are prolific in every Bay Area city. How are they changing the way people move? What is their relationship with traditional taxi cab companies? What role do city governments have in regulating these companies?

2. UBI is a type of automobile insurance whereby the premiums are dependent upon factors such as the type of vehicle, time of use, distance driven, place and various behaviors such as sharp turns or hard braking. Two common UBI schemes are currently being explored in the literature and in the industry: Pay-As-You-Drive and Pay-How-You-Drive. What are the advantages and disadvantages of each compared to the traditional flat insurance premium? Which insurance premium would you personally recommend and why? How will drivers respond to this new insurance scheme?

3. Truck-based transportation is the predominant mode used to transport goods and raw materials within the United States. In fact, around 70% of the nation's freight is transported by commercial trucks. What are some of the most important issues facing the trucking industry nowadays? What solutions are being recommended to solve these issues? What impact will the solutions have on the overall economy of the country?

4. Select one of the following 3 articles to review and critique. Discuss the main objectives/contributions of the article and summarize the methodology the authors developed to achieve these goals. What study limitations were acknowledged by the authors? Are there any other limitations you can think of that were not stated? Finally, what could have been done differently to improve the overall quality of the paper?

- Fagnant, D. and K. Kockleman (2014). "The Travel and Environmental Implications of Shared Autonomous Vehicles, Using Agent-Based Model Scenarios," Transportation Research Part C, Volume 40, pp.1-13
- K. Boriboonsomsin, M.Barth, W.Zhu, and A. Vu (2012). " Eco-routing Navigation System Based on Multisource Historical and Real-Time Traffic Information." IEEE Transactions on Intelligent Transportation Systems, Vol. 13, No.4, pp. 1694-1704.
- Akar, Gulash and Kelly Clifton (2009). "Influence of Individual Perceptions and Bicycle Infrastructure on Decisions to Bike." Transportation Research Record, 2140, pp.165-172

Electronic entries should be emailed to:
sadekba@cdmsmith.com
Subject: 2018 Student Paper Competition

Grand Prize: \$ 1,500 Scholarship Award
Plus Two Additional Scholarships:
\$750 Undergraduate Student Paper Scholarship Award
\$750 Graduate Student Paper Scholarship Award