

ITS Berkeley Director's Letter

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SpotAngels co-founder Hamza Chahdi shows his company's parking app to Mark Coopersmith, founding faculty member and lead instructor of the Learn2Launch program, during an Ecole Polytechnique Executive Master Program visit in June 2018.



Dear Colleagues and Friends,

Today, I am excited to share with you a success story coming out of Tech Transfer's Learn2Launch program. Alumnus Hamza Chahdi created SpotAngels, a community-based parking app that helps drivers find parking and avoid tickets, during his time in Berkeley and launched it in San Francisco a couple of years ago. Today, after launching in already 26 cities including New York City, Los Angeles, Boston, Miami and Chicago, SpotAngels officially launches services in Berkeley! Congratulations to our alumnus and to us for having a better way to park around town. Go Bears!

Speaking of alumni, I think about all the different ways we welcome back them throughout the year, the most recent being the Homecoming and Parents Weekend celebration on Oct. 13, 2018. It was so good to welcome back our alumni and come together under the Cal banner with our current students and their parents too.

Both Associate Director Daniel Rodriguez and I jumped right in the celebrations this year by participating in our respective college celebrations. Daniel presented a special Homecoming talk at the College of Environmental Design on Healthy City Cycling - Opportunities for Research and Education, where he described two city cycling studies he is leading focused on whether cycling stress is a good surrogate for good cycling conditions and the potential for cyclist education in increasing cycling activity and cyclist safety. I participated in the College of Engineering's 150 Years of Innovation Panel led by Berkeley Engineering Dean Tsu-Jae King Liu, highlighting work happening at the college and at the Institute of Transportation Studies. After discussing our research, I also was excited to answer questions from the audience.

During the week prior to Homecoming, we had the honor of celebrating with Mohammad Abdulaziz Alshaiikh Ph.D. (75) and his advisor Adib Kanafani, as Mohammad was inducted into the Department of Civil and Environmental Engineering Academy of Distinguished Alumni on Oct. 4, 2018. Mohammad, who retired as the Minister of State and Vice-Chair of the Central Committee of Council of Ministers in Saudi Arabia, has long been a bridge between Berkeley and Saudi Arabia chancellors, deans, faculty and students. It was a pleasure to see him on campus!

Another bridge ITS Berkeley is working to build is through the City County Pavement Improvement Center. Founding members signed the charter establishing this center just a few weeks ago. This is an exciting new collaboration led by the University of California in an effort to turn the latest research results and best practices into better local streets and roads through training and outreach to cities and counties. In addition, this Center brings together the UCs, CSUs, counties, and cities, and is an example of how UC research and service benefit the state and public. This collaboration was started with SB1 funding.

On the topic of SB1, many of our researchers have wrapped up or are wrapping up the first round of SB1 funded reports and policy briefs from the 2017-18 fiscal year, and starting 2018-19 research projects. We are now in the process of sharing these results, along with the other UC ITS centers, through forums, webinars, and briefings. We are excited to see how our great work is benefitting the state! Some of the highlights this year include Smartphone Applications and Data Imaging Transportation, Shared Mobility Policies for California Pooling Passengers and Services, and Preserving Privacy in Road User Charge (RUC) Architectures.

I look forward to seeing the next round of research coming out of ITS Berkeley from the SB1 funding and the practical applications it will have on the state's transportation system! Go Bears!

Go Bears.

Alexandre Bayen
Director of Institute of Transportation Studies
Liao-Cho Professor of Engineering

EVENTS

[View our complete calendar](#)

October 26, 2018 - 4:00 pm
Highway Traffic Operations under Reliability and Security Failures
Saurabh Amin, 290 Hearst Memorial Mining Building
In this talk, we introduce a system-theoretic approach for designing highway operations that are resilient to a class of disruptions. We focus on three types of disruptions: random incidents, moving bottlenecks, and strategic compromise of V2I communications.

November 1, 2018 - 3:00 pm
The Clean Energy Transition in Bangladesh - Local and Global Impacts and Opportunities: The Chowdhury Center Distinguished Lecture for 2018
Dan Kammen, Wheeler Hall, Room 315, Maude Fife Room

November 2, 2018 - 4:00 pm
Are New Vehicle Emissions Standards Effective and Efficient?
James Saltee, 290 Hearst Memorial Mining Building
This paper demonstrates the historic effectiveness of new vehicle emissions standards at reducing local air pollution from personal automobiles, but it also argues that the efficiency of such policies is greatly reduced by the failure to use complimentary policies that accelerate fleet turnover.

November 16, 2018 - 4:00 pm
Rethinking America's 20th-Century Highway Institutions
Robert Poole, 290 Hearst Memorial Mining Building
The U.S. highway system is our only major public utility that is organized as a directly government-operated department. All other major utilities—whether investor- or government-owned—operate in corporate form, receiving their revenues directly from their customers, based on the services used.

November 30, 2018 - 4:00 pm
Modeling Dynamic Transportation Networks Using Differential Complementarity Systems
Jeff Ban, 290 Hearst Memorial Mining Building
We introduce a mathematical paradigm, the Differential Variational Inequality (DVI) and Differential Complementarity Systems (DCS), for modeling and solving equilibrium and similar problems on dynamic transportation networks.

December 3, 2018 - 2:00 pm
ITS All Hands Meeting and Strategic Plan Roll Out
Sibley Auditorium
You are invited to come and learn about the new ITS Strategic Plan! This plan is the result of a yearlong engagement effort across campus. There will be a 30-min presentation followed by Q&A. Questions to be addressed include: What are upcoming research priority areas for ITS? How will they be prioritized? What funding opportunities will emerge? How can a new plan help my center? Come ready to engage.

NEWS



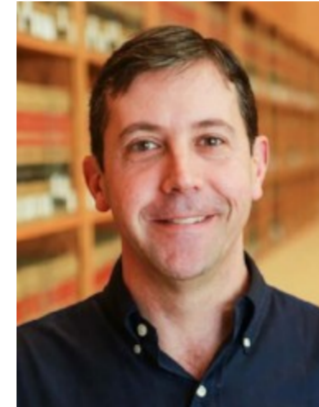
DEWA Partners With UC Berkeley to Host AI Leadership Program



SAE International Publishes Set of Definitions for Shared Mobility Terms



Horowitz Presents Keynote at ASME DSC Conference



Implementing SB 743: An Analysis of Vehicle Miles Traveled, Banking and Exchange Frameworks



Waddell, Moura Co-Author New Assessment of Bay Area Climate Impacts



Moura and Colleagues Publish in Nature Energy



Watch Kenichi Soga's Large Deformation Modeling Webinar



Top 40 Under Forty Women Kagure Wamuyu

HEADLINES

Susan Shaheen, co-director of the Transportation Sustainability Research Center is featured in [an interview with Susan Shaheen, the "Mother" of Shared Mobility](#) at the Medium.

City and Regional Planning Associate Professor Marta Gonzalez is featured in [Urban Cell Phone Data To Understand Our World](#) on WCAI's Living Lab Radio.

PATH's Steven Shalldover comments on [Tesla's first accident report claims it's four times safer than the US average. Maybe](#) at Quartz.

TSRC's Susan Shaheen talks about [Uber and Lyft are driving toward IPOs](#) at the Marketplace.



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