Continuous Risk Profiles

A Research Connection Event

For Safety Improvement

Sponsored By:

DIVISION OF RESEARCH & INNOVATION (DRI)

Thursday, August 23rd, 2007
9:30am - 11:30am

DRI Offices
Veteran Affairs Building - 5th floor - Room #518

VTC Participation Locations:

Headquarters
- HQ-201
- FMP
- VA-518
- Tamalpais Room

District 1
- VCI-M

District 2
- VC-2
- D2-119

District 3
- Gateway Oaks Conference Room
- District Office Conference Room

District 4
- D4-149

District 5
- VC5
- D5-201

District 6
- District Office VTC
- D6-119
- D6 Maintenance

District 7
- D7 [01-038]

District 8
- District Office VTC
- D8-1206

District 9
- VC9
- D9-109

District 10
- D10-162

District 11
- VC-11
- Mission Bay [2-203]

District 12
- D12 VTC

If your VTC Room is not listed and you wish to participate - email your add request to VTC@dot.ca.gov

Improving the safety of the roadway has been the priority for Caltrans - and to this end, Caltrans has been monitoring the traffic collisions that occur on freeways and identifying a list of sites that need to be investigated for further safety improvements. Many freeway sites have already been improved due to such effort. However, the department continuously strives to improve the current procedure for selecting high collision concentration location.

In this presentation, Dr. Chung presents a new method for generating a continuous risk profile. This method can more closely monitor variation in the shape of an underlying "true" risk profile and has recently been applied in several Caltrans projects. The findings show that continuous risk profiles generated by the method is highly reproducible over time and can be used for proactively identifying sites for safety improvements

Dr. Koohong Chung received his BS (1999) degree in Civil and Environmental Engineering from University of California at Berkeley (U.C.Berkeley), and MS and PhD (2004) in Civil and Environmental Engineering from U.C.Berkeley with minors in Statistics and Business Administration.

Prior to joining Caltrans District 4 Highway operations, Dr. Chung conducted his research work at Institute of Transportation Study (ITS) at U.C.Berkeley as a post doctorial researcher. Some of his previous research work includes the traffic flow theory, real time traffic control, evaluation of collision response system and the traffic safety.