

# AUTOMOTIVE SUMMIT 2014

19-20  
June 2014

BITEC • Bangkok  
Thailand

## SafeMate: Driving Style Evaluation Tool using Sensory Data on Smartphone

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### Abstracts

Human error is one of the key factors to the cause of road traffic accidents. Dangerous driving behavior such as speeding, swerving and sudden braking and acceleration are often seen on today's busy roads. It is therefore essential to cut down these driving behaviors in order to reduce the risk of road traffic accidents. SafeMate is a driving style evaluation tool based on a smartphone platform which aims to do just that. SafeMate will track and monitor drivers action in real-time as they drive. An alert is given when a dangerous movement is detected in real-time to increase driver's awareness. At the end of the trip, a score is given to evaluate drivers with suggestions and tips to improve their driving next time they are behind the wheel.

### Biography



Dr. Chalernpol Saiprasert is currently a researcher at NECTEC Thailand. He received his master's and Ph.D. in Electrical Engineering from Imperial College London. His main research areas are on road safety, driving behavior analysis and smartphone sensory data extraction and analysis. His recent research work includes detecting driving events using smartphone sensory data and computation of driver safety index.

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