



UNIVERSITÀ
degli STUDI
di CATANIA

Dipartimento di Ingegneria Civile e Architettura



Real-time Techniques for Proactive Road Safety Management

Keynote speech by prof. Dr. Tarek Sayed (University of British Columbia)

University of Catania – Aula Magna

Tuesday NOVEMBER 30, 2021

10:00 – 10:30

Welcome & Introduction

Enrico Foti – Dean of DICAR

Salvatore Cafiso – professor of Road Design

10:30 – 11:00

Tarek Sayed

KEYNOTE SPEECH (PART ONE)

11:00 – 11:15

BREAK

11:15 – 11:45

Tarek Sayed

KEYNOTE SPEECH (PART TWO)

11:45 – 12:00

DISCUSSION

Abstract: The increasing popularity of smart cities and recent developments in sensing, edge computing and vehicle technologies and the availability of “big data” combined with sophisticated AI techniques offer an opportunity to substantially advance and fundamentally transform the road safety profession—enabling continuous, real-time, proactive safety evaluation and optimization. The application of innovations that are both progressing and disrupting the status quo represents an opportunity for improved transportation safety. However, with the introduction of new modes of mobility and the complex interactions created by these different technologies within the transportation system, governments will need to rely on advanced research and analysis techniques to support policies towards the transition to these new forms of mobility and technologies. These issues are discussed, and several methods and techniques developed in this area are described with example projects from several agencies worldwide.



Tarek Sayed is a distinguished professor and a Tier 1 Canada Research Chair of Transportation Safety and Advanced Mobility at the University of British Columbia. He has a distinguished research track record in transportation engineering and has received a high number of honors and awards. In 2004, UBC granted Dr. Sayed the title of Distinguished University Scholar. Beyond several best paper awards, he also received the Sandford Fleming Award from the Canadian Society of Civil Engineering (2009) and the Award of Academic Merit from the Transportation Association of Canada (2010). In 2011, he received the Wilbur Smith Distinguished Transportation Educator Award from the Institute of Transportation Engineers (ITE). In 2014, he was awarded the Centennial Road Safety Award from the Transportation Association of Canada. And in 2015, Dr. Sayed received the Prince Michael International Road Safety Award for the most outstanding international road safety initiative. He is also a Fellow of the Engineering Institute of Canada, the Canadian Academy of Engineering, and the Canadian Society for Civil Engineering and was the editor of the Canadian Journal of Civil Engineering for 8 years. During his research activities, he has addressed a wide spectrum of transportation system applications with a focus on traffic operation and safety, Intelligent Transportation Systems, and the application of information technologies. He supervised to completion 90 M.Eng, M.A.Sc. and PhD students. He is the author or co-author of more than 400 journal and conference papers, including 260 published in the leading international journals.

Streaming of the meeting will also be freely available on the Teams platform at:

[https://teams.microsoft.com/l/meetup-](https://teams.microsoft.com/l/meetup-join/19%3ameeting_OWMxODIzYjYtMjMyYi00MjgwLTgxZTQzMzEwYmJlOWYzNTc4%40thread.v2/0?context=%7b%22Tid%22%3a%22baeefbc8-3c8b-4382-9126-e86bfef46ce6%22%2c%22Oid%22%3a%22cbd0c736-92f6-49a8-b403-264ab08cc48d%22%7d)

[join/19%3ameeting_OWMxODIzYjYtMjMyYi00MjgwLTgxZTQzMzEwYmJlOWYzNTc4%40thread.v2/0?context=%7b%22Tid%22%3a%22baeefbc8-3c8b-4382-9126-e86bfef46ce6%22%2c%22Oid%22%3a%22cbd0c736-92f6-49a8-b403-264ab08cc48d%22%7d](https://teams.microsoft.com/l/meetup-join/19%3ameeting_OWMxODIzYjYtMjMyYi00MjgwLTgxZTQzMzEwYmJlOWYzNTc4%40thread.v2/0?context=%7b%22Tid%22%3a%22baeefbc8-3c8b-4382-9126-e86bfef46ce6%22%2c%22Oid%22%3a%22cbd0c736-92f6-49a8-b403-264ab08cc48d%22%7d)

Sponsored by

