



# Smart Driving Research Center

Faculty of Civil and  
Environmental Engineering

Universiti Tun Hussein Onn Malaysia



[sdrc.uthm.edu.my](http://sdrc.uthm.edu.my)



Fostering safe, efficient and economical transportation

# About Us

Smart Driving Research Center (SDRC) is one of three centers of research at the Faculty of Civil and Environmental Engineering, Universiti Tun Hussein Onn Malaysia (UTHM). Established in 2013, It is the first-of-its-kind research center in Malaysia that aims to pioneer research and development of support systems for Smart Driving, thus becoming the nation's main referral center for the implementation of Smart Driving.

## Our Objectives

To achieve our aforementioned goal, we aspire to:

1. Conduct scientific research in producing human capital and technological systems that support Smart Driving.
2. Embark on collaborative research with transport agencies and the corporate sector.
3. Provide advisory services to the community.



## What is Smart Driving?

Smart Driving is a term that describes the art and practice of driving that encourage safe, efficient and economical travel. A smart driver is one who makes wise choices and good decisions when driving. Since the driver relies a lot on the vehicle and the road environment, it is vital for them to function well together to reach the aim of sustainable transportation.

## Advantages of Smart Driving

Potential benefits of Smart Driving include:

1. Reducing fuel consumption.
2. Protecting the environment by lowering gas and noise emissions.
3. Enhancing road safety for all users.
4. Promoting cost-effective, safe and comfortable travel.
5. Prolonging the life of the vehicle and its parts.



## Services & Equipment

Here at SDRC, our primary function is to continuously disseminate knowledge and share experiences in Smart Driving initiatives through our R&D programs. Thus, we offer professional consultation, courses and training to our potential clients.

We also provide opportunities for prospective UTHM post-graduate students to conduct their research with us.

Our other services include conducting traffic studies, traffic impact analysis, and asphalt testing.

Our laboratories are well-equipped with some of the latest technologies in data collection methods, testing facilities and software analysis. These include:

Automatic traffic counter  
Intersection traffic counter  
Traffic radar recorder  
Speed meter  
Sound level meter  
Retroreflectometer  
Telescopic mast with machine vision system

GPS vehicle tracker  
Road profiler  
Digital Benkelman beam  
Asphalt testing machine  
HDM-4  
TRAIS Video-based traffic analysis  
SIDRA Intersection  
PTV Visum



## Expertise

Our researchers are mostly academicians with doctorates from United Kingdom, Germany, Australia, Japan, New Zealand and Malaysia. Our diverse fields of expertise include:

Traffic Operations and Management  
Behavioural Safety Science  
Vehicle-Infrastructure Integration  
Driver Assistance Systems

Eco-driving  
Intelligent Transportation Systems  
Automotive Engineering  
Pavement Technology



**Dr. Mohammad Nasir Mohamad Taher**

Head of Center  
Smart Driving Research Center (SDRC)  
Faculty of Civil and Environmental Engineering  
Universiti Tun Hussein Onn Malaysia  
86400 Parit Raja  
Batu Pahat, Johor  
Malaysia

Tel: +607 456 4311  
Fax: +607 453 6588  
E-mail: [nasir@uthm.edu.my](mailto:nasir@uthm.edu.my)

Website: [sdrcl.uthm.edu.my](http://sdrcl.uthm.edu.my)