

A WORKSHOP ON ARTIFICIAL INTELLIGENCE AND DEEP LEARNING FOR AUTOMOTIVE

EATRON TECHNOLOGIES AND PROACTIVE FUTURE MOBILITY TEAM INVITE YOU TO JOIN THIS INTRODUCTORY WORKSHOP FOR AI. PRESENTED BY A WORLD LEADING SCIENTIST IN AI THIS WORKSHOP IS SUITABLE FOR ANY AUTOMOTIVE ENGINEER (JUNIOR, SENIOR, EXECUTIVE) WHO WANT TO BROADEN THEIR UNDERSTANDING OF THE LATEST MACHINE LEARNING TOPICS AROUND AUTOMOTIVE AND AUTONOMOUS DRIVING

WORKSHOP CONTENT

LECTURE: INTRODUCTION TO AI AND DEEP LEARNING

WHAT IS AI?

- A BRIEF HISTORICAL PERSPECTIVE ON AI
- INTRODUCTION TO FIELDS OF MACHINE LEARNING AND DECISION MAKING UNDER UNCERTAINTY

WHAT IS DEEP LEARNING?

- DEEP NEURAL NETWORKS
- POPULAR APPLICATIONS FROM IMAGE, TEXT AND LANGUAGE PROCESSING

LECTURE: AN OVERVIEW OF AI APPLICATIONS FOR AUTOMOTIVE

PERCEPTION

- SCENE UNDERSTANDING
- LOCALIZATION AND MAPPING
- DRIVER MONITORING

DECISION MAKING

- HIGH LEVEL MOTION PLANNING
- END TO END SELF-DRIVING

LECTURE: INTRODUCTION TO CONVOLUTIONAL NEURAL NETWORKS

- CONVOLUTIONAL NEURAL NETWORKS (CNNs)
- IMAGE AND VIDEO PROCESSING WITH CNNs
- TIPS AND TRICKS FOR TRAINING CNNs

INTERACTIVE SESSION: VEHICLE AND TRAFFIC SIGN DETECTION AND CLASSIFICATION USING CNNs

WHEN

Wed. 5th December 2018

9:30 – 16:00

WHERE

Silverstone Innovation Centre
Towcester NN12 8GX 

RSVP: ai@eatron.com

PRESENTER

Prof. N. KEMAL URE
Director of AI
Eatron Technologies



Kemal has 10 years of experience in research and development of artificial intelligence systems, focusing on decision making under uncertainty and machine learning for autonomous ground and air vehicles. He has a Ph.D. degree from Massachusetts Institute of Technology (MIT) and oversees numerous university-industry collaboration projects on topics ranging from development of deep reinforcement algorithms for autonomous vehicles to data driven optimization for large scale systems as a Professor at Istanbul Technical University (ITU).

AGENDA

8.30

Registration - Coffee

9.30

Welcome

10.00

Workshop

12:00

Lunch break

13:15

Workshop

16.00

B2B Networking Session

MEMBER OF

