



Detection and Tracking and Human Machine Interaction

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Abstract

This presentation will introduce the activities that AST (Advanced System Technology), the System R&D group of STMicroelectronics, is carrying out in the field of Human Machine Interaction and Computer Vision, with particular focus on technologies related to Object Detection and Tracking.

During the session, it will be outlined the approach to Human Machine Interaction applications from the industry perspective: from the analysis of market and trends, to the identification of solutions and target products, going through complexity vs. performances and flexibility.

In particular, some examples of how Object Detection and Tracking algorithms can be used to realize different application like digital still cameras with assisted shot and automatic configuration (like Auto Focus), augmented reality, human-machine interaction, car security, surveillance, identification, etc.

In the demo section, some of these applications implementing Object Detection and Tracking algorithms will be presented.

Syllabus: Face Detection, Face Tracking, Human Machine Interaction, Object Tracking, Auto Focus, Augmented Reality, Automotive, Security, Surveillance, Face Identification, Hand-held Devices.