

**5<sup>TH</sup> WORLD MACHINE LEARNING AND DEEP LEARNING CONGRESS  
and****WORLD CONGRESS ON  
COMPUTER SCIENCE, MACHINE LEARNING AND BIG DATA**

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**Search the world like you search the web (computer vision and object detection)****Mourad Touzani**  
Microsoft, UAE

The world is getting smarter, imagine you can search your physical world same way you search the web, With the advances of artificial intelligence and cameras we currently have, people can look for objects, people the same way we search the internet. From a factories to hospitals the technology can provide a great help into tune the life we have and make us do things more efficient, object detection is tightly coupled with object tracker and not just identifying objects but also tracking them, during this talk we will discuss the different algorithms and market trends in both object detection and object tracker and some real life examples to apply the technology into business solutions. This talk discusses the different algorithms and techniques that can help both developers and data scientist understand the best fit for each in building business solutions. Algorithms include YOLO, TensorFlow Object Detection, MobileNet, Mask R-CNN, BOOSTING Tracker, MIL Tracker, KCF Tracker (Kernelized Correlation Filters) and CRYS Tracker. With the help of Microsoft Azure Cognitive Services can help developers with a limited machine learning and artificial intelligence knowledge build a cutting edge solutions that cover lots of the usecases in the business with a minimal amount of coding and reach an outstanding solutions.

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