



## Vision-based Autonomous Driving Technologies at VisLab, Ambarella

6月11日 (一) 10:00~11:30 交通大學工程四館 B1 合勤講堂

**Speaker :** Prof. Alberto Broggi

Professor of computer engineering, University of Parma, Italy  
General Manager, VisLab srl, Ambarella



### Abstract:

The presentation will introduce some historical milestones in autonomous driving achieved by VisLab in the past 20 years and will describe the current activities in vision-based perception carried over by Ambarella, which acquired VisLab in 2015. In particular different technologies and techniques for the perception of the automotive environment will be presented and compared to what can be achieved with the state of the art. A special emphasis will be given to vision based stereoscopic perception since it is one of the most promising techniques to be used by car companies for future vehicles.

### Biography:

Prof. Alberto Broggi is the General Manager at VisLab srl (a spinoff of the University of Parma, acquired by Ambarella, Inc. in 2015) and a professor of computer engineering at the University of Parma in Italy. Widely considered a leading pioneer in the use of machine vision for automotive applications, Broggi has been actively engaged in autonomous driving research and development for over twenty-five years. He is an IEEE Fellow (2014) and in 2017 he was honored with the IEEE Medal for Environmental and Safety Technologies "for leadership in vehicular environmental perception, and for setting worldwide milestones in safe and reliable intelligent vehicles." In 2018, Popular Mechanics called Broggi's patent for a self-driving car one of the "15 Patents That Changed the World."

**Host:** Prof. Hsueh-Ming Hang 杭學鳴 教授

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活動洽詢: PAIR 中心 莊雅喬小姐 03-5712121#54831 [zoeychuang@pairlabs.ai](mailto:zoeychuang@pairlabs.ai)

主辦單位: 人工智慧普適研究中心

協辦單位: Ambarella, Inc.

