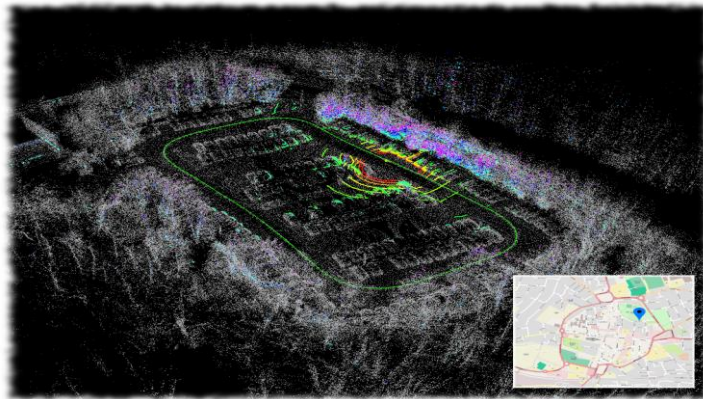


# BMVA Symposium: Localization and Spatial Awareness in Computer Vision

One Day BMVA symposium in London, UK on Wednesday 27<sup>th</sup> May 2020

**Chairs:** Toby Breckon - Durham, Khalid Ismail - Durham, Andrew Calway - Bristol,  
Tim Lukins - Machines with Vision



[www.bmva.com/meetings](http://www.bmva.com/meetings)

## Call for Papers:

Humans have an outstanding ability to navigate and understand complex environments using vision, albeit with varying degrees of performance. Visual data is hugely rich in semantic cues regarding where an observer is and where she should go next in order to complete a task. It is therefore not surprising that localisation and spatial awareness is an increasingly active area of research within computer vision and robotics, targeting a multitude of applications such as self-driving vehicles, autonomous drones, and location-aware augmented reality.

Autonomous localisation and spatial awareness using vision is challenging, particularly when other sensors, such as a global positioning system (GPS), are unreliable or not available. Semantic cues are numerous and often ambiguous, and the data is inherently noisy and corrupted, with dynamic objects and environment conditions such as weather and time of day, impacting significantly on reliable inference. Commercial potential also brings with its hard-practical constraints such as a need for trust and reliability, especially relevant in the context of self-driving vehicles, and real-time performance.

## Submission Deadline 18<sup>th</sup> March

This meeting will bring together researchers and practitioners from industry and academia, interested in all aspects of localization and spatial awareness and potential future applications. Abstracts are not published, and re-presentation of previous work is acceptable. Submit interest through <https://forms.gle/6ZQd9KM5ABqWfm958>