Global-Scale Localization in Outdoor Environments

Introduction

Clemens Arth¹, Jonathan Ventura², Dieter Schmalstieg¹

(1) Graz University of Technology
(2) University of Colorado Colorado Springs
Outdoor Localization

Credits: Layar

Arth, Ventura, Schmalstieg  
Global-Scale Localization in Outdoor Environments - Intro
Agenda

- 9:05-10:05
  - Part 1: The localization continuum – a literature review
- 10:20-11:20
  - Part 2: Modern CV and its application to AR
- 11:35-12:35
  - Part 3: Mobile hardware – constraints, opportunities and usability considerations
About the Speakers

- **Clemens Arth**
  - MSc. and PhD in Computer Science (TU Graz)
  - Senior Research Scientist and deputy director of the CD lab on handheld AR
  - Several ISMAR papers on outdoor localization over the last few years
  - Main Interest in Industrial Augmented Reality
About the Speakers

- **Jonathan Ventura**
  - MSc and PhD in Computer Science (UCSB)
  - Assistant Professor at UCCS
  - Several ISMAR and VR papers on localization previously
  - Main interest in vision-based modelling and camera calibration
About the Speakers

- **Dieter Schmalstieg**
  - MSc, PhD and Habil. (TU Vienna)
  - Full Professor at Graz University of Technology, head of CD lab on handheld AR
  - IEEE VR award for technical achievements in AR in 2012