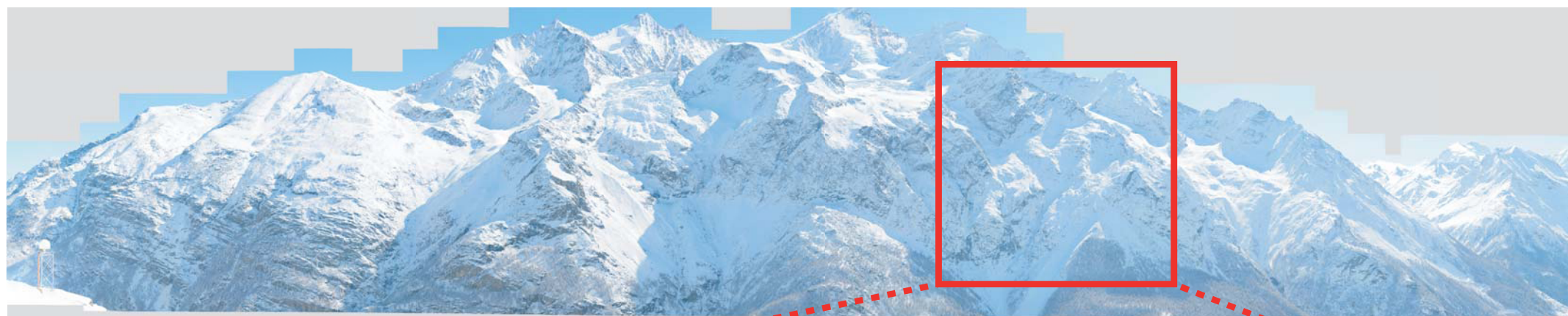


CamZilla: High-Resolution Imaging for Detecting Temporal and Spatial Changes in the Environment

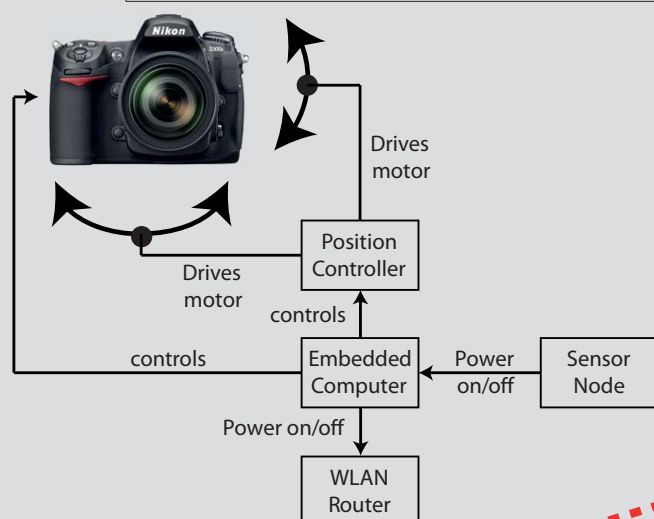
Jan Beutel, Matthias Keller, Tonio Gsell, Christoph Walser, Mustafa Yucel, Matthew Brown*

Computer Engineering and Networks Lab, ETH Zurich; *University of Bath, UK



CamZilla Camera Robot

- High-resolution imager (12 MegaPixel D-SLR)
- Two rotational axes for pan and tilt
- Autonomous execution of scheduled jobs
- Wireless remote control
- Energy-efficient operation
- Integration with sensor network
- Ruggedization for outdoor use



11-02-2012

Tracking a Changing Environment

High-resolution imaging allows to track temporal changes in the mountains at unprecedented scale and resolution. Images are available online with short delay for detailed analysis.

27-02-2012



Randa Field Site

CamZilla is located in Randa/CH overlooking the X-Sense study field site on the orographic right side of the Matter Valley.

Power is provided using solar panels. The Internet connectivity uses the PermaSense WLAN backbone to Zermatt.

Installation date 01/2012.

CamZilla Field of View

