

Figure 1. SAMURAI concept diagram

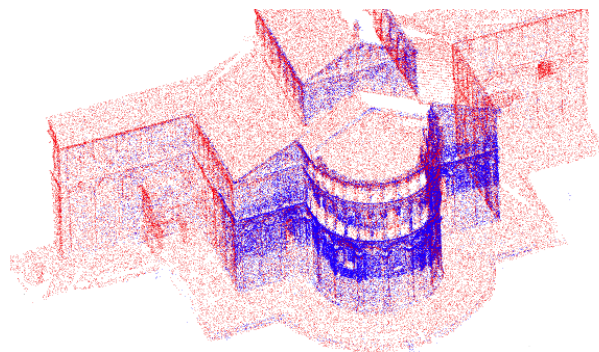


Figure 2. A perspective view of the reconstruction of "Duomo" (Pisa,Italy)

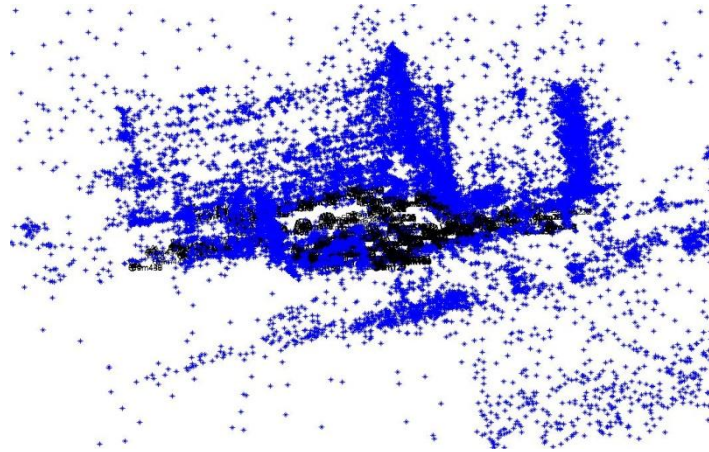


Figure 3. 3D cloud blue, ground reconstructed cameras in black. It is possible to note that the buildings are now represented even by front face.

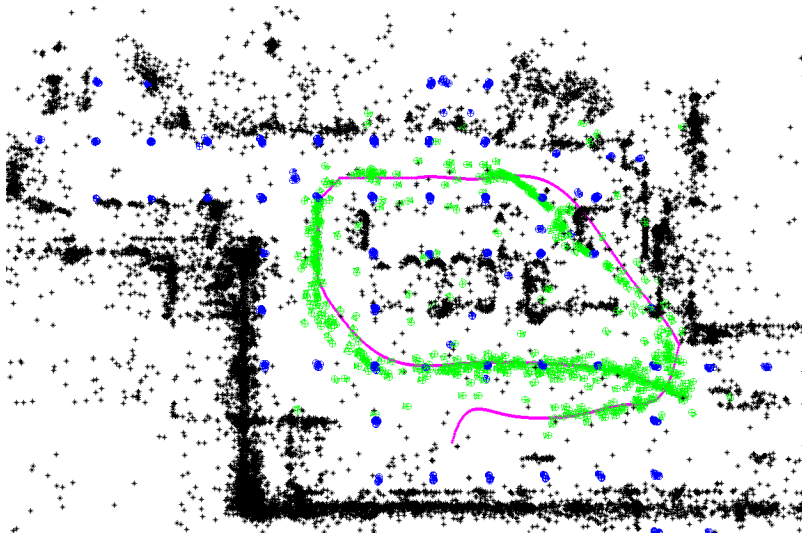


Figure 4. The ground-truth trajectory is drawn in magenta, the mobile cameras oriented by our algorithm are shown as green markers and the cameras reconstructed from the SaM pipeline are marked in blue.

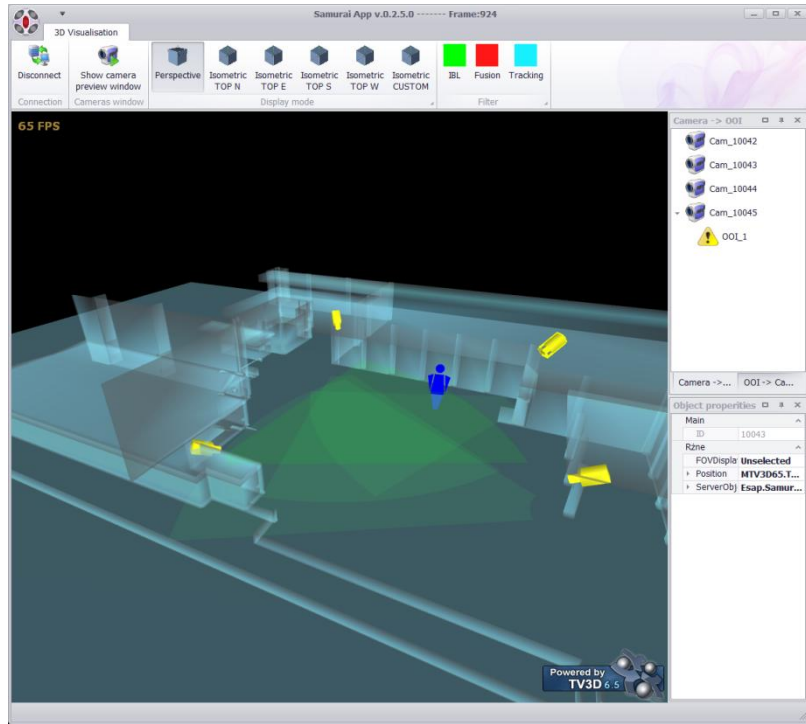


Figure 5. Main SAMURAI GUI Application Window

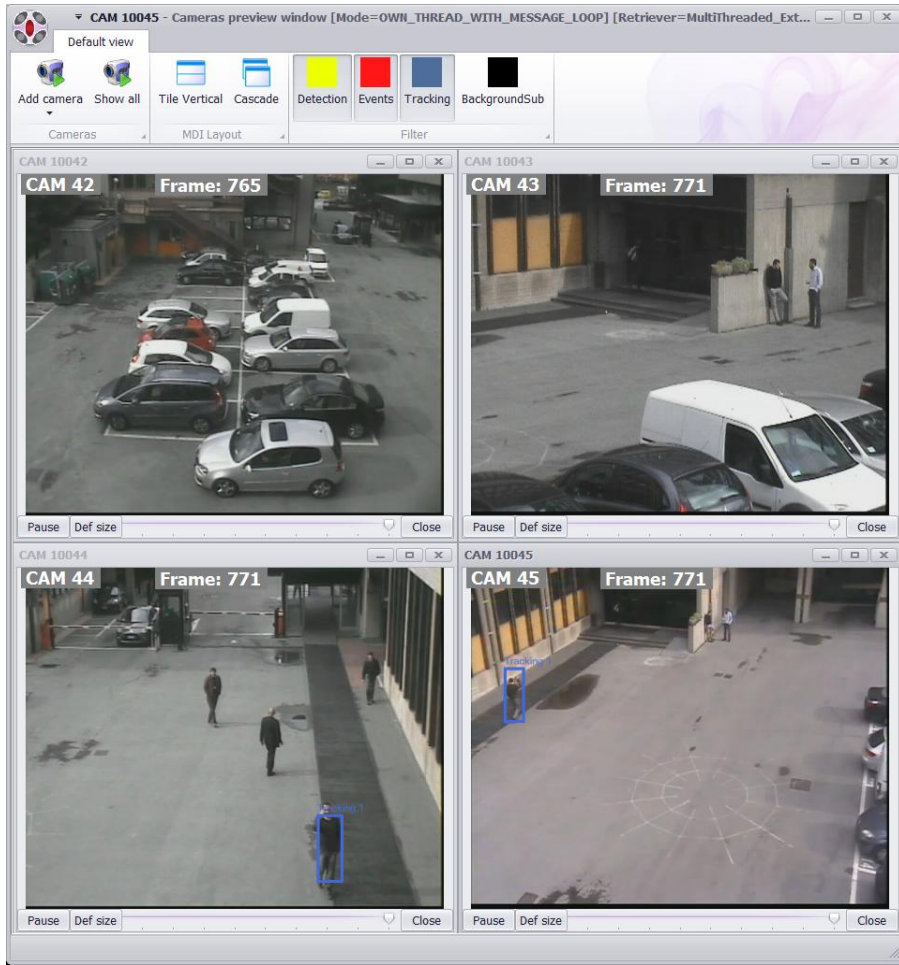


Figure 6. Cameras Preview Window



Figure 7. Camera Preview with Marked Objects of Interest

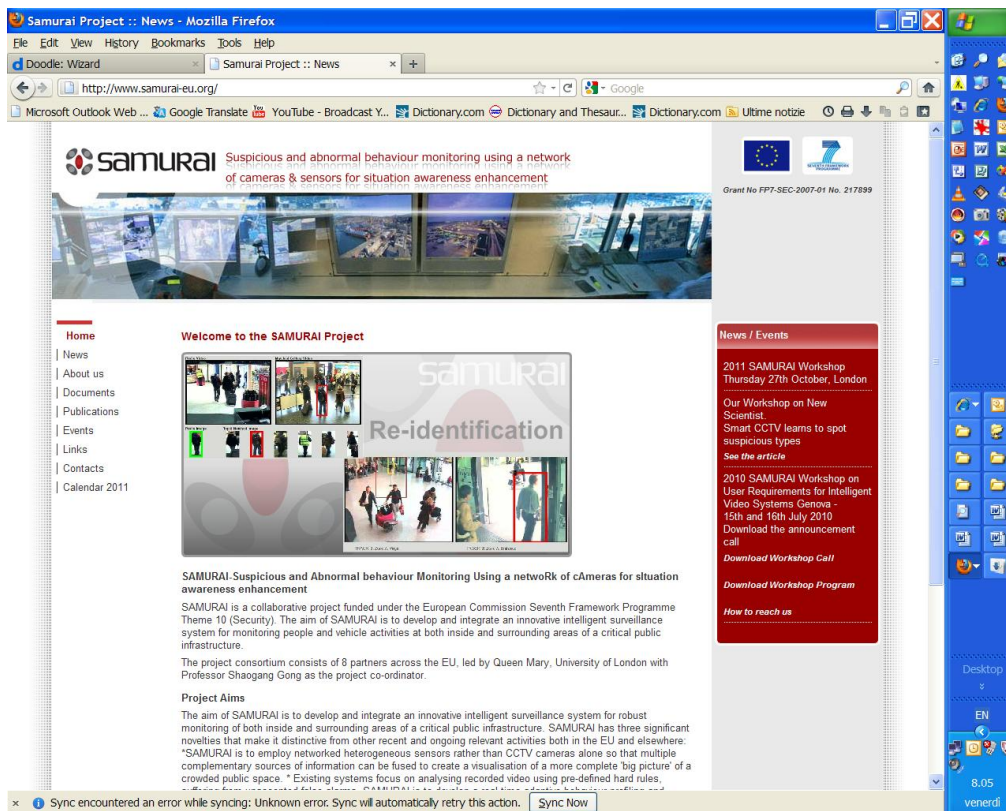


Figure 8. Project Web Site

Project Highlights

Existing automatic surveillance systems only alert human operators about a potentially dangerous situation/event after visual sensory data was passively and often blindly captured and processed. None of the current systems interact with human operators during sensory data capturing and processing. SAMURAI will develop a global behaviour-monitoring model for live video and other non-visual data captured by different types of fix-positioned and mobile sensors in a distributed sensor network. SAMURAI will also evaluate and exploit novel concepts and technologies for deploying wireless cameras with audio/position sensors.

Consortium and competencies

The SAMURAI consortium consists of:

- Three public transports infrastructure end-users as full participants and eleven additional external users as members of a User Advisory Group.
- Two World-leading research institutions in the security area.
- Comprehensive development and system integration in the security area of the industrial partners.



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Suspicious and
Abnormal behaviour
Monitoring
Using a
network of
cameras for
situation awareness enhancement

Abnormal Behaviour



Meeting the
European Security Challenge

Figure 9. Project Brochure