High-quality Tele-presence:
the NAVIRE research project

Navigation in Image-Based Representations of Real World Environments

The objective of this project is to invent new methods and develop new technologies to harvest the full potential of image-based modeling of real-world environments and to move towards a true tele-presence experience. Basic image-based models for mapping applications are available today in Google Maps - "Street Views" and in Microsoft Live Search Maps. In the NAVIRE project, effective tele-presence in remote environment is achieved through smooth unconstrained navigation based on high-quality 360º panoramas and immersive display.

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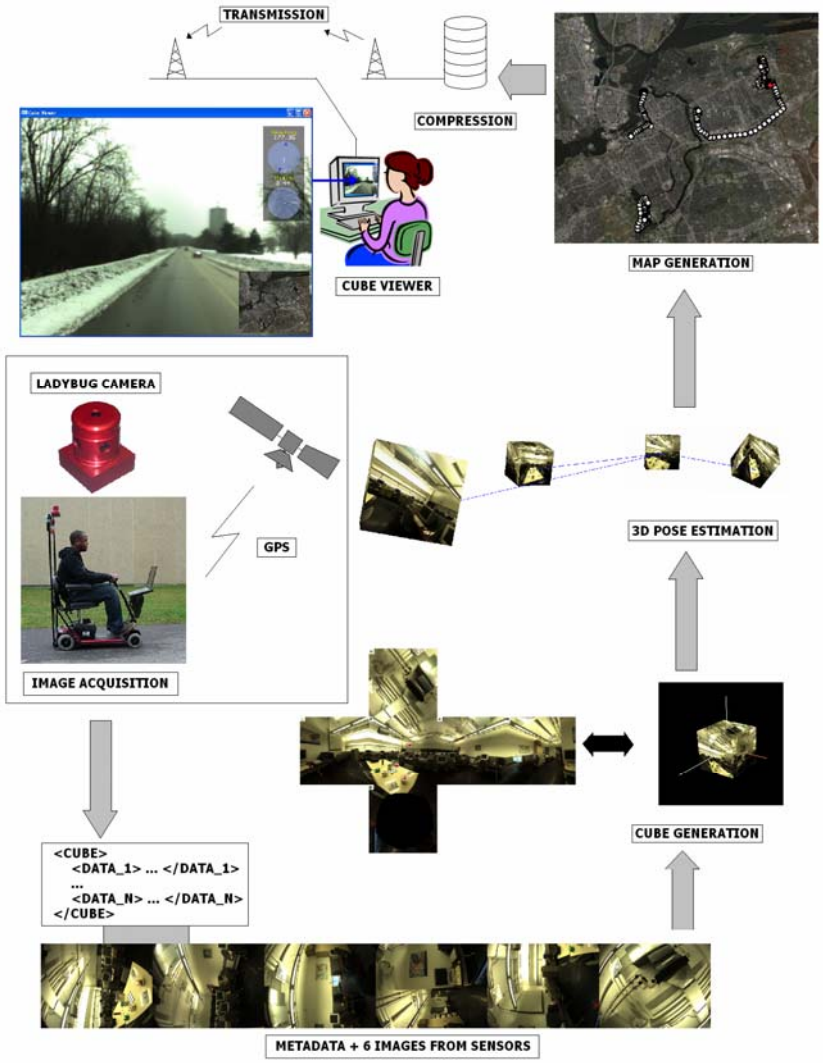
Research topics :

omnidirectional image acquisition
stereoscopic imaging: acquisition and display;
computer vision: 3D pose and structure estimation
recognition and matching of image content;
image processing: image quality improvement,
synthesis of new views;
computer graphics: integration of virtual content
with the real world;
environment acquisition: GPS, inertial sensors,
robotic platforms;
and more…



New students being recruited. All qualified students will benefit from SITE's generous funding.
Contact one of the researchers if you are interested

VIVA lab: Video, Image, Vision and Autonomous Systems