



Heterogeneous Tracking for Augmented Reality in Wide-Area Environments

You are invited to the 3rd trackframe day

Date:	10 th Feb.	
Location:	BMW	BMW AG
Begin:	10:00 am	Forschungs- und Innovationszentrum
End:	16:00 pm	Knorr Straße 147
		D - 80788 München

Organization

Please, confirm your attendance georg.klinker@peyclon.de

For program details please refer to the agenda.

Project partners



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Tracking is a major challenge for Augmented Reality applications. Especially heterogeneous and wide-area sensor setups make high demands on the engineers who are responsible for their setup and maintenance. The trackframe project has developed methods that can simplify these tasks tremendously.

- A tracking middleware decouples applications from the underlying sensor infrastructure. A new graphical modeling approach based on spatial relationship graphs allows for rapid specification of spatial transformations between objects and sensors in the scene. It also allows for the deduction of new, initially unknown transformations by applying spatial relationship patterns to the graph. From this, data flow descriptions can be generated and instantiated efficiently by the middleware.
- Decoupling applications from tracking implies that dedicated tools are needed for maintenance tasks. Examples are graphical planning and analysis tools, calibration tools and error analysis functionality.

In the trackframe project, these concepts have been defined, tested and validated by using the framework and tools to develop industrial applications.