

Prof. Peter Eisert

Faculty of Mathematics and Natural Sciences

Department of Computer Science

Visual Computing

Expertise

The chair of Visual Computing develops new methods for the analysis and synthesis of image and video data. This includes algorithms for estimating shape, material, motion and deformation from monocular and multi-view camera systems. Both in national and international collaborations, those algorithms are exploited in applications like multimedia, VR/AR, industry, medicine, and security.

Scientific Services

- Various cameras
- Multispectral sensors, 3D sensors
- Lighting and calibration systems

Testimonials

- Development of new methods for automatic inspection and damage classification of sewer networks with a water supply company
- Development of augmented reality systems for automobile production processes with a car manufacturer
- Analysis of multispectral imaging for tissue classification in collaboration with medical technology manufacturer



Topics / Trends

Health
Communication(s) Systems
Human-Technology-Interaction
Optics
Robotics & Artificial Intelligence
Software Development

Scientific Institution

Fraunhofer-Institut für
Nachrichtentechnik, Heinrich-Hertz-
Institut, HHI

Industries

Healthcare & Life Sciences
Information & Communication
Technology
Optical Instruments & Precision
Engineering

Mentor for Startup

Ludufactur GmbH
T-T-T 3000

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