UNIVERSITÄT
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More and more information is represented by **digital images**, videos, and **visual simulations**. However, in order to create and analyse digital images in an appropriate way, profound scientific knowledge from different disciplines is required.

Saarland University (Saarbrücken, Germany) offers a **novel international master's programme** that is entirely devoted to visual information processing. Students with a bachelor's degree in computer science, mathematics, physics, electrical engineering, mechatronics or related fields may apply.

A Master's degree in Visual Computing offers **excellent job opportunities** in growth sectors such as machine vision, optical industry, medical imaging, automotive industry, robotics, surveillance, telecommunications, multimedia, computer games and media design.

More Information & Application

www.master-visual-computing.de

Master of Science

Visual Computing

Examples of Areas in Visual Computing

Modern acquisition methods allow a representation of all image structures at a high resolution, as one can see from this magnetic resonance image of a mouse embryo.

Image processing deals with methods that transform a digital image into another image that is more useful for humans or computers. Deblurring a distorted image is a typical example.

One of the main goals of computer graphics is to create highly realistic simulations of our 3D world, e.g. by sophisticated ray tracing methods.

Estimating the position of 3D objects and using these models in new synthetic scenes requires advanced computer vision and computer graphics.

Images that can be understood by humans and not by computers avoid the misuse of internet services. Computer graphics and pattern recognition methods allow the creation and validation of such images.