

Customised image analysis solutions and services for medicine, laboratory diagnostics and biomedicine

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Country:

Germany

Region:

West Europe

Logo

Organisation name:

Title:

Customised image analysis solutions and services for medicine, laboratory diagnostics and biomedicine



Keywords:

Imaging, Image Processing, Pattern Recognition, Applications for Health, Didactic System, Algorithms and Complexity, Diagnostics, Diagnosis

Description:

The Bavarian institute offers a broad range of services - from feasibility studies for specific problems and customized evaluation of large amounts of image data to research and development projects. Besides adaption and licensing of available algorithms and methods into existing systems, also the implementation of control software and user interfaces upon request will be carried out. Furthermore support with technical documentation, performance of risk management as well as planning and performance of clinical studies and performance assessment studies in accordance with the applicable directives (DIN EN 14971, 93/42/EEC, 98/79/EC) are provided.

The institute specifically develops methods and systems for analysis of image data from pathology, general laboratory medicine, microbiology and biomedicine.

Thus a computer-assisted microscopy for hematology has been set up. With this device an automated analysis of blood smears is allowed and classification of cells supported. Furthermore labor time can be reduced, quality of diagnosis increased and creation of a rapid and objective differential white blood cell count, also in case of suspicious blood samples, contributed.

This special system is composed of a microscope with a motorized stage that can be laterally and vertically moved by a computer. An insertable frame allows for simultaneous placement of up to eight slides per round. This stage and the z-axis allow for movement and automated placement of the slides between the objective lens attached to a camera and the light source. The special software can be operated via a graphical user interface and controls all functions of the microscope and finally presents the results of the analysis.

This system is certified as in-vitro diagnostic device in accordance with the Medical Devices Act (Directive 97/79/EC, Annex I) and is distributed all over Europe by their industrial partners.

Current and Potential Domain of Application: - Computer-assisted Microscopy
- Digital Pathology and Diagnostics
- Drug Discovery and Research
- Internet-based Training Systems
- Computer-assisted Endoscopy

Stage of development:

Available for demonstration

Key Benefits:

- Longtime experience in development of computer-assisted analysis and interpretation of images.
- Customized image-based technological solutions.
- New solutions for knowledge and computer-based analysis of images improve medical diagnostics and therapy.
- Computer-assisted microscopy supports the standardization and quality assurance process in clinical hematology.
- Medical technology test and demonstration center is in close cooperation with university hospital in Bavaria.

Applications:

Patent status:

Patents granted

Commercial Partnering:

- Type of partner sought:

Small and medium-sized companies without own R&D department

- Specific area of activity of the partner:

Medical technology, laboratory diagnostics, digital pathology, microscopy applications in biomedicine and pharmacology

- Task to be performed by the partner sought:

- technology integration into own products
- joint further development

Type of Partnership Considered :

Commercial agreement with technical assistance

Joint venture agreement

License agreement

Technical cooperation agreement

Document (NCD) download:

Contact:

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