Fraunhofer MEVIS

PRESS RELEASE

Open House at the Workshop of Digital Medicine

To celebrate the opening of the institute's new building, Fraunhofer MEVIS is hosting a virtual event on June 18.

It took more than six years to plan and build, but now the new building of the Fraunhofer Institute for Digital Medicine MEVIS on the campus of the University of Bremen is completed. To celebrate the inauguration, the institute opens its doors, albeit only virtually due to the current pandemic. After the welcome addresses by Dr. Claudia Schilling, Bremen Senator for Science and Ports, by Alexander Kurz, Executive Vice President Human Resources, Legal Affairs, and IP Management of the Fraunhofer-Gesellschaft, as well as by Prof. Dr. Bernd Scholz-Reiter, President of the University of Bremen, Fraunhofer MEVIS will present a sample of its current research activities. The online event will take place on Friday, June 18, from 2 to 5 pm. The event will be held in German, although the plenary session will be simultaneously interpreted into English, and some presentations will be given in English. Anna Stankiewicz (violin) and Elena Tomarchio (violoncello) from the Konsonanz chamber ensemble provide musical contributions.

Fraunhofer MEVIS is dedicated to what is most likely the biggest challenge in healthcare - the digital transformation in medicine. The flood of image and lab data and the increasing number of therapy options provide numerous new opportunities, but simultaneously increase the complexity of the everyday routines at clinics and medical practices. To manage this complexity successfully, the institute is developing novel computer methods, such as those using artificial intelligence and decision support. They are designed to combine all relevant information, make diagnosis and therapy more efficient, and decrease side effects. The target is precision medicine that offers customized patient-specific solutions.

The new institute building on Max-von-Laue-Str. provides an ideal setting for such research. It is designed as a workshop for digital medicine, where innovative software tools are developed, and where a broad range of people can imagine the future of medicine - from experts, scientists, and clinicians to children, young adults, and school teachers. The new building offers space for 210 employees spread across four floors. The building's architecture is based on a cellular structure of three interlocking, organically shaped volumes. Transparency is ensured through glass walls, and communication zones invite for spontaneous meetings. The new location moves

Editor & Contact
Bianka Hofmann | Fraunhofer-Institut für Digitale Medizin MEVIS | +49 421 218 59231
Max-von-Laue-Str. 2 | 28359 Bremen | Germany | www.mevis.fraunhofer.de
bianka.hofmann@mevis.fraunhofer.de

Fraunhofer MEVIS even closer to the University of Bremen, with which it has been associated since 2016 as part of the U Bremen Research Alliance. The building also serves as a forum for joint workshops, teaching and lectures, and other events.

During the "Online Open House" on June 18, Fraunhofer MEVIS will present an overview of its current work and research topics. For instance, the MEVIS team is developing a software platform that integrates all essential AI programming steps and thus facilitates collaboration between AI experts, computer engineers, and medical professionals. Adaptive algorithms promise valuable use cases in clinics and medical practices. For example, digital diagnostic assistants can execute time-consuming routine tasks or provide valuable prognoses about therapeutic success. A further example is a new method supported by AI to perform follow-up checks on tumor treatments at higher speed and accuracy. By comparing prior-to-current CT or MRI images, the algorithm can accurately measure how much a tumor has shrunk in the course of chemotherapy. MEVIS researchers will also show a method that compensates breathing motion during minimally invasive liver cancer therapy with focused ultrasound. Only this can ensure that pulses of focused ultrasound correctly hit the ulcer and avoid the healthy tissue that surrounds it.

Details on the agenda and online access can be found at https://www.mevis.fraunhofer.de/en/events/2021/online-open-house.html. Parallel to the technical presentations, members of the MEVIS team will answer questions in our virtual lobby, which is also reached via our website.

Fact box new building
The new institute building is located on Max-von-Laue-Straße on the campus of the University of Bremen. The building has 2600 square meters of usable area. Four floor provide 210 workspaces for the 150 employees, as well as 60 research assistants, Ph.D. students, and guest researchers. The new building plans were developed by the architectural office Haslob Kruse and Partner in Bremen. The owner-builder is the Fraunhofer-Gesellschaft in Munich. The construction costs of around 15 million euro is split in thirds between the Federal Ministry of Education and Research, the Federal State of Bremen, and the European Regional Development Fund (ERDF). Construction should be finalized by autumn 2020.

Bundesministerium
für Bildung
und Forschung

Freie
Hansestadt
Bremen
DIE SENATORIN FÜR WISSENSCHAFT,
GESUNDHEIT UND VERBRAUCHERSCHUTZ

Europäische Union
Investition in Bremens Zukunft
Europäischer Fonds für
regionale Entwicklung

Embedded in a worldwide network of clinical and academic partners, **Fraunhofer MEVIS** develops real-world software solutions for image and data supported early detection, diagnosis, and therapy. Strong focus is placed on cancer as well as diseases of the circulatory system, brain, breast, liver, and lung. The goal is to detect diseases earlier and more reliably, tailor treatments to each individual, and make therapeutic success more measurable. In addition, the institute develops software systems for industrial partners to undertake image-based studies to determine the effectiveness of medicine and contrast agents. To reach its goals, Fraunhofer MEVIS works closely with medical technology and pharmaceutical companies, providing solutions for the entire chain of development from applied research to certified medical products www.mevis.fraunhofer.de

The Fraunhofer-Gesellschaft, headquartered in Germany, is the world's leading applied research organization. With its focus on developing key technologies that are vital for the future and enabling the commercial exploitation of this work by business and industry, Fraunhofer plays a central role in the innovation process. As a pioneer and catalyst for groundbreaking developments and scientific excellence, Fraunhofer helps shape society now and in the future. Founded in 1949, the Fraunhofer-Gesellschaft currently operates 75 institutes and research institutions throughout Germany. The majority of the organization's 29,000 employees are qualified scientists and engineers, who work with an annual research budget of 2.8 billion euros. Of this sum, 2.4 billion euros are generated through contract research. www.fraunhofer.de