

PRESS RELEASE

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Digital Hospital Made Easy

Interoperability, integration, interaction – medical technology is dominated by digitalization. At MEDICA 2022, Fraunhofer IPK will be demonstrating how intelligent linking of devices and systems, including digital twins, will shape processes in the hospital of the future. Thanks to the »Scengineering« solution, even objects for which no digital data are available can be integrated.

The future of hospitals is digital – but how to get there is not yet transparent for many hospitals. With its expertise in digital engineering, the Fraunhofer Institute for Production Systems and Design Technology IPK supports medical institutions in digitization projects. The basic idea is to network existing data structures contextually and intelligently in order to create the basis for AI services and applications such as digital twins. This creates an infrastructure capable of diagnosis and interaction.

Combining different individual systems can start with the software as well as with the hardware. Data stored on or in these systems is processed and brought together for subsequent applications. This creates information networks which allow for conceiving the most diverse applications. Digital models, augmented and virtual reality, smart products or digital twins make processes in the operating room, in hospital infrastructure or in interaction with equipment manufacturers more efficient, cooperation between all participants is improved and patients benefit directly.

Fraunhofer IPK will be demonstrating their expertise from November 14 to 17, 2022 in Düsseldorf with its »Scengineering« demonstrator. The Scengineering technology is used to automatically derive CAD models from 3D scans. In its industrial application, it can help to manufacture components quickly and cheaply on site. The demonstrator can scan a finger to customize an orthosis to that finger. The resulting design is 3D printed on site – from biopolymers made from recycled cooking oil. The demonstrator brings together skills and solutions for data preparation and linking with reverse engineering and digital twins.

Visit us at the booth of the Fraunhofer-Gesellschaft:
Hall 3, Booth E74

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Further information:

<https://www.ipk.fraunhofer.de/scengineering>

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With Scengineering, CAD models can be automatically derived from 3D scans of objects.

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