

PICTURES

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"Audio Technology for Intelligent Production" industry working group



((bild01_HSN-4Production_2023-02-16.jpg))

The machine operator issues simple commands to the milling machine, such as "start machine" or "switch on light". The voice control executes the command and issues a confirmation.

Photo: Fraunhofer IDMT/AnikaBödecker

Innovate Manufacturing.

www.emo-hannover.de



((bild02_ Klick-Erkennung_2023-02-16.jpg))

Fraunhofer IDMT's click recognition technology can be integrated into the reporting system and displayed on an interface.

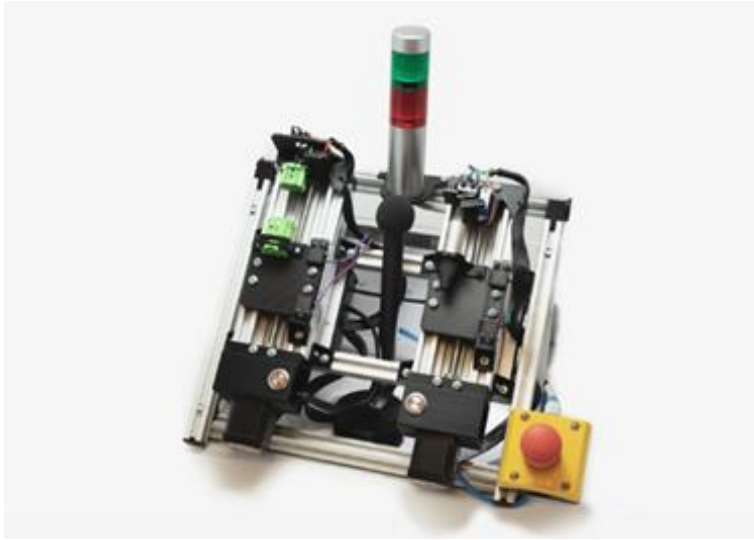
Photo: Fraunhofer IDMT



((bild03_HSN-4Production_2023-02-16.jpg))

Fraunhofer IDMT trains not only the machine operators, but also – thanks to machine learning – the accuracy of the speech recognition.

Photo: Fraunhofer IDMT/AnikaBödecker



((bild04_Klick-Erkennung_Automotive_2023-02-16.jpg))

The smart sensor system can detect the clicking sound when plug connections engage. If there is no click, the acoustic monitoring system registers an error.

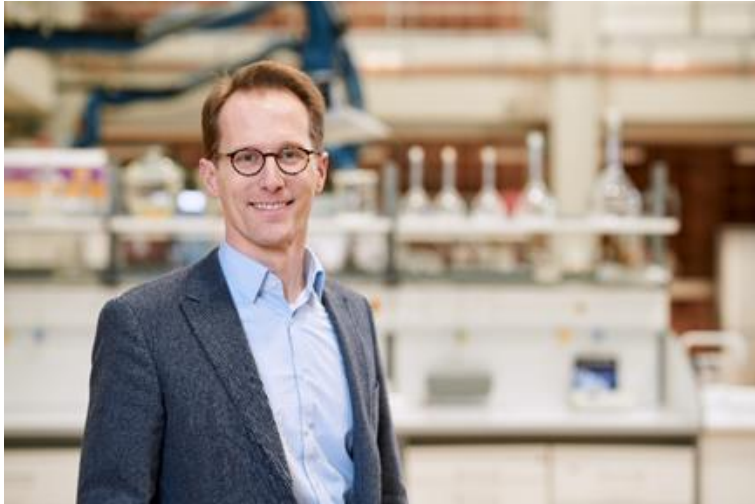
Photo: Fraunhofer IDMT/HannesKalter



((bild05_Jens-Appell_2023-02-16.jpg))

Dr. Jens Appell, Head of the Hearing, Speech and Audio Technology Department at the Oldenburg Branch of the Fraunhofer IDMT: "In the Audio Technology for Intelligent Production' industry working group we are exploiting the wide-ranging potential of audio technology in digitalized production and assembly."

Photo: Fraunhofer IDMT



((bild06_Sven-Lange_2023-02-16.jpg))

Prof. Dr.-Ing. Sven Carsten Lange, Professor of Production Technology at the Emden/Leer University of Applied Sciences and Scientific Advisor at Fraunhofer IDMT in Oldenburg: "We are breaking new ground in wide-ranging multimodal applications."

Photo:
Lange&Schmidt_Management_Consulting



((bild07_Arnold-Farbe_2023-02-16.jpg))

Lorenz Arnold, Managing Director, MGA Ingenieurdienstleistungen GmbH, Process Automation and Control Technology, Würzburg: "For me, multi-machine operation is an ideal application for proving that voice operation is not merely a technical gimmick."

Photo: MGA
Ingenieurdienstleistungen GmbH



((bild08_Danilo-Hollosi_2023-02-16.jpg))

Danilo Hollosi, Head of Acoustic Event Detection at Fraunhofer IDMT: “My team and I have developed AI-based algorithms for reliable audio analysis of all kinds of click sounds. Our solution has already proven itself in trials on the assembly of cable harnesses in the automotive industry.”

Photo: Fraunhofer IDMT/Markus Hibbeler



((bild09_Christian-Colmer_2023-02-16.jpg))

Christian Colmer, Head of Marketing and PR, HSA Branch, Fraunhofer IDMT: “Representatives from our institute and from the working group’s partner companies will definitely be there in Hanover to hold in-depth discussions on acoustics with customers, and to sound out new application scenarios.”

Photo: Fraunhofer IDMT



((bild10_Marvin-Norda_2023-02-16.jpg))

Marvin Norda, working group coordinator at Fraunhofer IDTM, Oldenburg: “Speech is the most natural form of communication. That’s why we’re convinced that speech will also establish itself in industry as a communication interface between humans and machines – similar to smart home or automobile applications.“

Photo: Fraunhofer IDTM/Anika Bödecker