

#TogetherAgainstCorona

The Fraunhofer-Gesellschaft stands for applied research for the benefit of society. That is why we as Fraunhofer IMS also support the German vaccination campaign with the campaign #TogetherAgainstCorona.



Dear friends, partners and customers,

as the year draws to a close, we would like to thank you very much for your constant interest in our newsletter and the benevolent exchanges on many occasions. We wish you a merry and peaceful Christmas coupled with much confidence and optimism for the new year 2022.

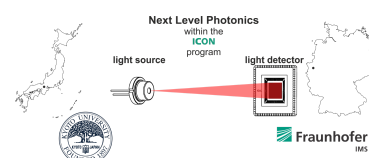
Best regards



LiDAR

Project ICON

RESEARCH TOGETHER. This is the motto of a new research project started at the Fraunhofer IMS together with the highly endowed Kyoto University in Japan. In the newly launched project Next Level Photonics, which focuses on novel



methods for the generation and detection of light, a team on two continents will actively grow together over the next 3 years.

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[BUSINESS UNIT MOBILITY](#)

ARTEMIS

Semiconductor-Chip with integrated artificial intelligence can diagnose heart disease from Charité clinical trial data.

The BMBF-funded "ARTEMIS" consortium will develop a small, portable detector under the leadership of Getemed AG. The core innovation is an artificial intelligence-enhanced semiconductor circuit in the ECG electronics that reliably identifies atrial fibrillation using machine learning.



[MORE INFO](#)

[BUSINESS UNIT HEALTH](#)

AIRI5C

News about the AIRI5C family of RISC-V cores from Fraunhofer IMS.

The AIRI5C enables efficient machine learning and AI in sensors, IoT devices and other embedded applications. The free RISC-V processor instruction set is ideally suited to implement custom extensions in a short time to provide optimal performance for specific applications. In combination with the AlfES software library developed by Fraunhofer IMS, the AIRISC processor family supports neural network inference and training directly on the embedded device.



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[BUSINESS UNIT INDUSTRY](#)

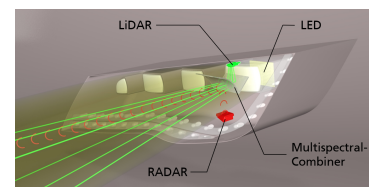
LiDAR

Smart Headlight

Environment sensors such as LiDAR and radar integrated in a headlight?

Fraunhofer experts from five institutes are already working on sophisticated integration solutions to give the numerous sensors for autonomous driving a place in the vehicle.

Contact us if you are faced with a task similar to our Smart Headlight project.



Nordrhein-Westfalen fördert fünf Projekte mit über acht Millionen Euro

Fit4eChange

The Fit4eChange project makes distribution networks fit for the energy transition:

The aim of the project is to continuously monitor energy flows and loads in low-voltage distribution networks, which are used very dynamically, in real time. Intelligent sensor systems are used to collect, collate and communicate relevant information. Only then will it be possible to control and optimally integrate generators and consumers in a way that serves the grid.



[MORE INFO](#)

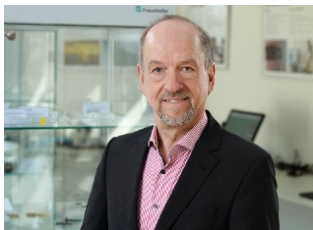
Research grant for Industry 4.0 research

To enable reliable process and machine monitoring in demanding areas of the manufacturing industry, such as small batch and single-part production, the Fraunhofer IMS is researching predictive maintenance solutions that can meet even the most stringent requirements through the use of smart sensor systems and embedded artificial intelligence (AI). In the course of this research, master's student Zero Liß has been receiving a research fellowship from the Industrial Research Foundation since November 2021. The scholarship supports high-performing students whose work contributes to central research questions of the industrial SME sector in Germany.

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[CORE COMPETENCE ESA](#)

Contact



Dear Reader,
of the Fraunhofer IMS Newsletter, I have been happy to keep you informed about the latest developments from us with our newsletter over the last 4 years. As I am retiring in mid-January 2022, I would like to take my leave of you all and thank you for your interest in our news. In the future, Mr. Wolfgang Gröting will be in charge of the newsletter and I would be pleased if the response remains as positive as before.

With kind regards

Michael Bollerott

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