

PRODUCTIVE TEAMING



2023

Produktive Messe 2023: Focus on human-centred production!

How can machines work together as a team? Researchers from Chemnitz University of Technology, Fraunhofer IFF and the Digital Agency Saxony discussed these and other topics at the Produktive Messe 2023 on 21 April.

The conference 2023 under the guiding theme of "Industrial Transformation - Making the most of opportunities to exchange ideas about the megatrends in production" offered visitors and participants were able to inform themselves and discuss production on several conference stages, including the "Industrial Transformation" exhibition. A highlight on the last day of the fair was the panel discussion on "Productive Teaming". Scientists from the Chemnitz-Ilmenau-Magdeburg Research and Innovation Cluster and their partners, who presented their visions and ideas for the future of production.

Prof. Dr. Marco Ragni from the Digital Agency Saxony, Prof. Dr. Tina Haase from the Fraunhofer IFF, Prof. Dr. Gunther Notni from the Otto von Guericke University Magdeburg, Prof. Dr. Gunther Notni and Prof. Dr. Marco Ragni from the TU Chemnitz.

How can machines work together as a team and what we can imagine by "Productive Teaming". Prof. Ragni, as a CHIM speaker, commented on the general trend: "With increasing product diversification, we need more and more individualized production. These challenges. However, these problem solutions should no longer only involve the machines more and more". Of course, topics such as "Productive Teaming", teaming does not only consist of machine and AI, [...] because a holistic approach has to be taken," says Prof. Notni. Based on the fact that machines are becoming more and more capable. But can these systems also adapt to work together with humans in a team?

In human-centred production, assistance, machines should also be enabled to work together with humans. Humans are also at the centre, i.e. in human-centred production, humans

chine in a team," said Ragni. Ortmeier added: "We see the vision and
oting to the human and becoming a partner of the human instead of

cooperation and communication, saying that the interaction between
scientists from TU Ilmenau also spoke in favour of the interaction of
ut in the same way we as humans must also understand the machine
ni.

importance of looking at the relationship between humans and machines
ans and also put them in charge: "If we don't also empower humans to
at some point in digitalisation."

y recognise the environment, but also understand via multimodal
nd measuring stress. This is also accompanied by ethical questions
nt handling of the research results from such measurements," Prof.

at productive teaming is of great importance in production, especially
h. "Likewise with many end products, such as in medical technology,
sions have to be made during production," Prof. Husung continues.
ays, in that companies have to disassemble products again, for
is where the strengths of Productive Teaming, i.e. the competences (and
support," says Husung.

Productive Teaming technology can also bring great advantages for
t also brings an advantage in that I have to think less [about problems].
So once the technology catches on and the hardware can do it, it will

line learning in manufacturing remain significant. With Productive
ol" with the help of which humans and machines could work together

annover Messe website:

teaming-die-zukunft-menschzentrierter-produktion/exp/104567

zukunft-menschzentrierter-produktion/exp/104567).


work and Productive Teaming can be found here: > <https://chim.hrz.tu->





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