

---

# FRAUNHOFER-INSTITUTE FOR OPTRONICS, SYSTEM TECHNOLOGIES AND IMAGE PROCESSING IOSB

---

## Autonomy and self organization in manufacturing and internal logistics



Olaf Sauer  
Karlsruhe, June 12, 2020



**Biography Olaf Sauer**

Dr. Olaf Sauer studied Industrial Engineering at the Karlsruhe Technical University. After two years in a small company in Karlsruhe he moved to Berlin where in 1996 he took his PhD in Production Engineering from Prof. Spur. After his time at the Fraunhofer Institute for Production Systems and Design Technology ([IPK](#)) he became part of Bombardier Transportation, where he was in charge of the introduction of the Digital Mock-up and first applications of digital manufacturing. After his time at Bombardier Dr. Sauer started his own business within the [METROPLAN](#) group dealing with production and material flow planning, manufacturing control and logistics, e.g. for DaimlerChrysler, smart, the GEA group and STILL. 2004 he joined the Karlsruhe-based [Fraunhofer IOSB](#), where he was in charge of the business unit production monitoring & control until 2011, developing, supplying and maintaining the ProVis-family, a suite of MES-tools that e.g. monitor and control manufacturing facilities at the Daimler plants in Bremen, Woerth and Sindelfingen. Today he is deputy head of the institute and in charge of business development, marketing & sales for Fraunhofer [IOSB's automation business](#) at three sites. He is member of Industrie 4.0 related committees and holds teaching positions at the University of Kassel and the Karlsruhe Institute of Technology (KIT).