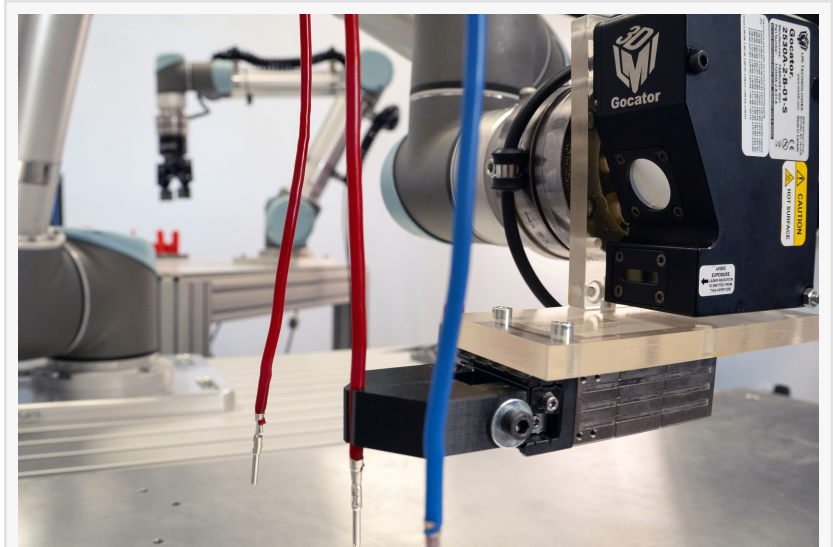


ArtiMinds Robotics presents latest automation solutions at the SPS trade fair in Nuremberg

ArtiMinds and LMI will be showcasing advanced robotic automation solutions for sensor-based cable assembly as well as new ways for process data analysis.

KARLSRUHE, BADEN-WÜRTTEMBERG, GERMANY, October 22, 2024 /EINPresswire.com/ -- ArtiMinds Robotics GmbH will be presenting its innovative automation solutions at the SPS trade fair in Nuremberg from November 12 to 14, 2024 at the LMI Technologies stand (Hall 7a, Stand 141). As a leading provider of software solutions and engineering services for robot automation, ArtiMinds will be showcasing a [robot-based cable handling application](#) with a particular focus on the integration of process-related real-time data analysis.



The Gocator line profile sensors from LMI Technologies are now fully supported by the ArtiMinds Robot Programming Suite (RPS) software

“

With ArtiMinds LAR, we not only offer our customers the ability to automatically record process data, but also the option to save this data over a longer period of time for documentation purposes.”

Dr. Sven Schmidt-Rohr

The presented solution demonstrates the detection, picking and joining of flexible cables in connector housings. One of the most important innovations is the integration of the Gocator line profile sensors from LMI Technologies, which are now fully supported by the ArtiMinds Robot Programming Suite (RPS). This extension enables even more precise and robust detection of the cable position in order to efficiently automate complex robot applications with multidimensional image acquisition. “By supporting the LMI Gocator laser scanner series, we are expanding the flexibility of our software and offering our customers the opportunity to integrate a wide

range of advanced sensor technologies into their automation solutions,” explains Dr. Sven Schmidt-Rohr, Managing Director of ArtiMinds Robotics.

Focus on process data analysis

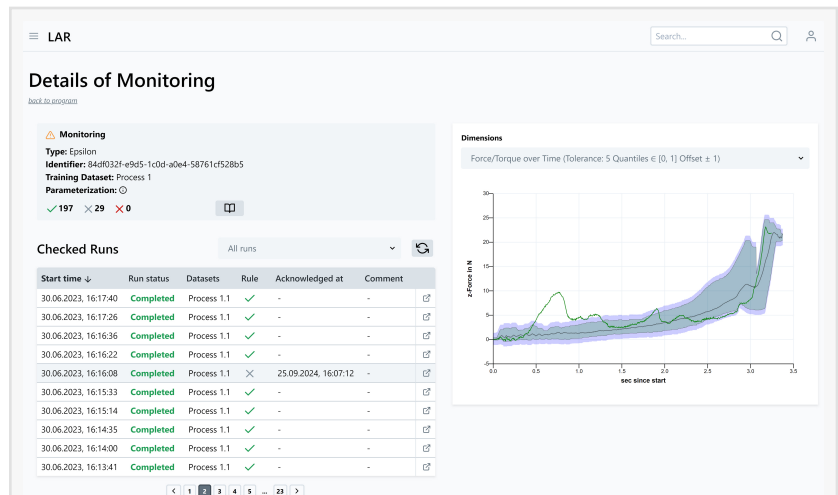
In addition to the cable handling demonstration, ArtiMinds Robotics will be focusing on process data analysis using the [ArtiMinds Learning & Analytics for Robots \(LAR\)](#) software solution at SPS. This makes it possible to automatically record and visually evaluate sensor data such as force measurements. This allows to precisely identify process deviations or reasons for faulty insertion processes.

Another highlight is the ability to centrally store camera data such as images from the SensoPart vision sensor used in the demo and link it directly to the respective process step. Standardized interfaces to industrial components and OPC UA ensure simple integration without additional programming effort and also enable the analysis software to be installed in already existing systems. This opens up new ways of monitoring and recording automation processes plant-wide in real time without having to focus on robot data only. "With ArtiMinds LAR, we not only offer our customers the ability to automatically record process data, but also the option to save this data over a longer period of time for documentation purposes. This allows to analyze production processes retrospectively, identify causes of errors such as wear or different product batches and make important optimizations," adds Schmidt-Rohr.

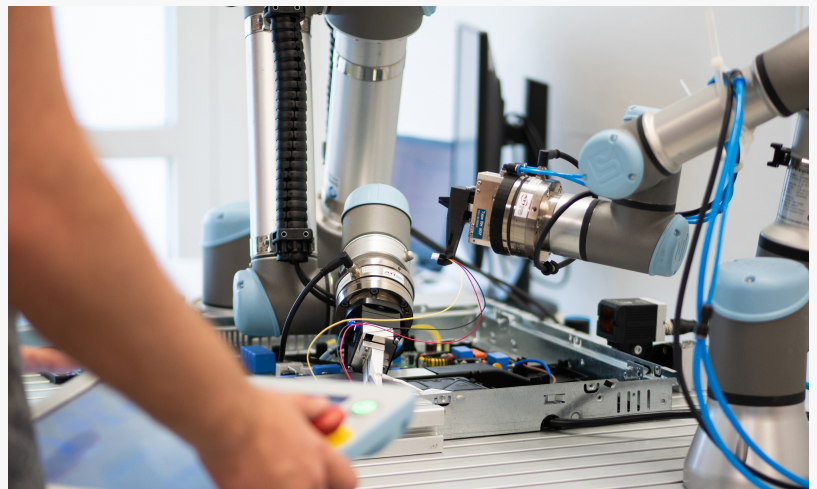
Robotics software for versatile and flexible automation

[ArtiMinds RPS](#) makes it easy to create highly adaptive and sophisticated robot programs that can be executed directly on the industrial robot's standard controller without additional hardware. The software thus covers a wide range of applications - from simple pick-and-place processes to complex sensor-based assembly operations.

"Taking part in the SPS trade fair is an ideal opportunity for us to present the latest innovations in robot-based automation to a broad specialist audience and to show how our software



With ArtiMinds Learning & Analytics for Robots, tolerances, process deviations and causes of errors can be precisely identified



To date, there are no robust robot-based automation solutions for the assembly of plugs or cables

solutions can help companies to make their production processes more flexible and efficient,” summarizes Schmidt-Rohr.

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