Company Profile

ArtiMinds Robotics develops software solutions that simplify the programming and operation of industrial robots and enable cost-efficient integration and maintenance as well as flexible automation. ArtiMinds` portfolio supports users from planning, simulation and programming up to running operation, maintenance and optimization of their robot applications.
The customer base includes internationally operating manufacturing and technology companies from the automotive, electrical engineering and consumer goods industries as well as plant and mechanical engineers.

Product Overview

The products ArtiMinds RPS and LAR support a wide range of different robot manufacturers as well as the most common grippers, camera systems and force-torque sensors, thus providing the perfect basis for flexible automation. The graphical intuitive user interface replaces textual programming and makes specific programming skills no longer necessary. Via drag & drop, the user selects his functions and movements from ready-made templates and generates his program in native programming language. This enables the user to implement even complex sensor-adaptive applications robustly and efficiently. With the sensor data automatically recorded and processed by the add-on LAR, the user receives essential insights into his processes in order to continuously optimize them while operating the system.

Product Description

ArtiMinds Robot Programming Suite (RPS)

- **Planning and Simulation:**
  Manufacturer independent robot programming via drag and drop of predefined templates. Offline programming with collision-free route planning, setup of safety

zones, accessibility analysis and cycle time estimation

- **Programming of complex program logic:**
  Communication with PLC and other external systems, logical programming beyond simple path planning

- **CAD-2-Path:**
  Generation of surface accurate paths for robots based on CAD data

- **Force and vision controlled robot programming:**
  Sensitive processes, handling of non-rigid materials and sensitive parts, handling of process deviations & tolerances

ArtiMinds Learning & Analytics for Robots (LAR):

- **Visualization & Analysis:**
  Process oriented past, present and future analysis, e.g. predictive maintenance, detection of new batches, tool wear and tear, etc.

- **Self-optimization:**
  Self-learning methods for optimizing the parameters of the robot program, e.g. for minimizing tolerance compensation, reducing cycle time & teach point optimization

- **Process monitoring:**
  Display of standard and process-specific parameters; creation of monitoring systems that observe occurring forces or movements of the robot and that inform you of errors

- **Long-term data storage & system integration:**
  Long-term storage of process data in your own local database; integration into higher-level MES systems

Contact

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