

Previous works on industrial robots dealt with programming and programming languages only in passing; no comparison was made between characteristics of the individual programming languages. This book, therefore, gives a detailed account of industrial robot programming and its environment. After introducing basic concepts special attention is paid to the language constructs relevant to robot programming. The features of various elements of the languages examined are compared. The languages are based on the following concepts: SRL - high-level programming language based on AL with PASCAL elements (University of Karlsruhe, F. R. G.) PASRO - integrated into PASCAL, based on the geometrical data types of SRL (I. I. -BIOMATIC Informatics Institute, Freiburg, F. R. G.) AL - derived from the high-level programming language ALGOL (Stanford University, U. S. A. , and University of Karlsruhe, F. R. G.) AML - high-level programming language, influenced by PL/1 (IBM, U. S. A.) VAL - language specifically developed for robots (Unimation, U. S. A.) HELP - mixture of high-level language elements and robot language elements and real-time processing (DEA, Italy) SIGLA - a simple machine language (Olivetti, Italy) ROBEX - based on NC programming (Technical College (RWTH), Aachen, F. R. G.) RAIL - high-level programming language for industrial robots with elements for graphic processing (Automatix, U. S. A.) IRDATA - general software interface between programming and robot controller (Association of German Engineers (VDI), F. R. G.

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– Artificial Intelligence N.J. Nilsson: Principles of Artificial Blume, W. Jakob: Programming Languages for Industrial Robots. **Programming languages for industrial robots in SearchWorks** - 41 sec - Uploaded by Linda WRobot Control Programming - Duration: 4:23. Robotics and Controls Lab @ UConn 8,828 views

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