

1.2 Industrial robots - definition and classification

1.2.1 Definition (ISO 8373:2012) and delimitation

The annual surveys carried out by IFR focus on the collection of yearly statistics on the production, imports, exports and domestic installations/shipments of **industrial robots (at least three or more axes)** as described in the ISO definition given below. Figures 1.1 shows examples of robot types which are covered by this definition and hence included in the surveys.

A robot which has its own control system and is not controlled by the machine should be included in the statistics, although it may be dedicated for a special machine. Other dedicated industrial robots should not be included in the statistics. If countries declare that they included dedicated industrial robots, or are suspected of doing so, this will be clearly indicated in the statistical tables. It will imply that data for those countries is not directly comparable with those of countries that strictly adhere to the definition of multipurpose industrial robots.

- Wafer handlers have their own control system and should be included in the statistics of industrial robots. Wafers handlers can be articulated, cartesian, cylindrical or SCARA robots. Irrespective from the type of robots they are reported in the application "cleanroom for semiconductors".
- Flat panel handlers also should be included. Mainly they are articulated robots. Irrespective from the type of robots they are reported in the application "cleanroom for FPD".

Examples of dedicated industrial robots that should not be included in the international survey are:

- Equipment dedicated for loading/unloading of machine tools (see figure 1.3).
- Dedicated assembly equipment, e.g. for assembly on printed circuit boards (see figure 1.3).
- Integrated Circuit Handlers (pick and place)
- Automated storage and retrieval systems
- Automated guided vehicles (AGVs) (see "World Robotics Service Robots")

The submission of statistics on industrial robots is mandatory for IFR member associations. In some countries, however, data is also collected on all types of manipulating industrial robots, that is, both multipurpose and dedicated manipulating industrial robots. Optionally, national robot associations may therefore also submit statistics on all types of manipulating industrial robots, which will be included in the publication World Robotics under the respective country chapter.

Industrial robot as defined by ISO 8373:2012:

An automatically controlled, reprogrammable, multipurpose manipulator programmable in three or more axes, which can be either fixed in place or mobile for use in industrial automation applications

1 2 Industrial Robots Definition And Classification

Harry H. Poole



1 2 Industrial Robots Definition And Classification:

Robotics United States. Congress. House. Committee on Science and Technology. Subcommittee on Investigations and Oversight,1982 *Robotics And Industrial Automation* R. K. Rajput,2008 **NBS Special Publication** ,1977

Technologies of Robotic Welding Maoai Chen,Wenjian Ren,Yuanning Jiang,2024-11-11 The book deals with robotic welding systems and their applications The mechanical design of manipulator sensing technology welding process manipulating technology and maintenance procedure of welding robot are presented in detail with must know basic theories about operation principle of robot briefly introduced The book features a large quantity of carefully selected images and tables to help the reader understand the technologies of robotic welding easily and quickly The book benefits welding engineers mechanical engineers researchers and senior undergraduate students and postgraduate students in the fields of welding engineering mechanical engineering etc *Performance Evaluation of Programmable Robots and Manipulators* Thomas B. Sheridan,1976 World Robotics ,2004 *Springer Handbook of Robotics* Bruno Siciliano,Oussama Khatib,2016-07-27 The second edition of this handbook provides a state of the art overview on the various aspects in the rapidly developing field of robotics Reaching for the human frontier robotics is vigorously engaged in the growing challenges of new emerging domains Interacting exploring and working with humans the new generation of robots will increasingly touch people and their lives The credible prospect of practical robots among humans is the result of the scientific endeavour of a half a century of robotic developments that established robotics as a modern scientific discipline The ongoing vibrant expansion and strong growth of the field during the last decade has fueled this second edition of the Springer Handbook of Robotics The first edition of the handbook soon became a landmark in robotics publishing and won the American Association of Publishers PROSE Award for Excellence in Physical Sciences Mathematics as well as the organization s Award for Engineering Technology The second edition of the handbook edited by two internationally renowned scientists with the support of an outstanding team of seven part editors and more than 200 authors continues to be an authoritative reference for robotics researchers newcomers to the field and scholars from related disciplines The contents have been restructured to achieve four main objectives the enlargement of foundational topics for robotics the enlightenment of design of various types of robotic systems the extension of the treatment on robots moving in the environment and the enrichment of advanced robotics applications Further to an extensive update fifteen new chapters have been introduced on emerging topics and a new generation of authors have joined the handbook s team A novel addition to the second edition is a comprehensive collection of multimedia references to more than 700 videos which bring valuable insight into the contents The videos can be viewed directly augmented into the text with a smartphone or tablet using a unique and specially designed app Springer Handbook of Robotics Multimedia Extension Portal <http://handbookofrobotics.org> **Basics of Robotics** Adam Morecki,Jozef Knapczyk,2014-05-04 This volume contains the basic concepts of modern robotics basic definitions systematics of robots in

industry service medicine and underwater activity Important information on walking and mili walking machines are included as well as possible applications of microrobots in medicine agriculture underwater activity Control in Transportation Systems 1986 M.M. Etschmaier,H. Strobel,R. Genser,T. Hasegawa,2014-05-23 This volume investigates developments in and management of transportation systems future trends and what effects these will have on society The book studies transportation systems planning traffic problems and the issue of conservation the use of logistics and the role of computers and robotics in traffic control *Proceedings of Symposium for International Co-operation on Industrial Robots '87* ,1987

Industrial Robot Applications E. Appleton,D.J. Williams,2012-12-06 The hardest data for managers and engineers in charge of the design and implementation of robot systems to acquire is also the most valuable case studies detailing best current practice and the return on investment actually achieved It has been a major goal of the British Robot Association among other professional groups to organise meetings where such case studies are presented and discussed between members but the obvious restrictions of commercial confidentiality lead to considerable difficulty especially in relation to the best recent installations The authors of this book have been in the uniquely privileged position of lecturing in the Cambridge University Production Engineering Tripos a course specially organised in conjunction with a number of leading companies applying robots and automation Actual case studies from these companies form an important part of the course making this book that has emerged from it a uniquely important addition to our Open University Press series **USITC Publication** ,1983 *A Textbook of Mechatronics* RK Rajput,2007 A Textbook of Mechatronics is a comprehensive textbook for the students of Mechanical Engineering and a mustbuy for the aspirants of different entrance examinations including GATE and UPSC Divided into 10 chapters the book delves into the subject beginning from Basic Concepts and goes on to discuss elements of CNC Machines and Robotics The book also becomes useful as a question bank for students as it offers university questions with answers Flexible Automation in Japan J. Hartley,2013-04-09 Much has been said and written about Japan s manufacturing prowess Most ofthe comment comes from people who are merely visitors to the country and can be best cclassified as observers looking in from the outside Other views come from the Japanese themselves in which the double barrier of culture and language filters out much information that would be of real value to Western industrialists Neither of these limitations apply to John Hartley who has been resident in Japan for the past five years He understands the culture can speak the language and has extensive contacts at the highest level Therefore he is in a unique position to report on the Japanese scene and its activities in advanced manufacturing technology This he has been doing on a regular basis to IFS magazines The Industrial Robot Assembly Automation Sensor Review and The FMS Magazine Most of the material in this book is from John Hartley s pen and represents his most significant contributions on flexible automation in Japan to these journals over the last three years It is augmented with a few other articles written by leading authorities on new technology in Japanese manufacturing industry **Advances in Service and Industrial Robotics** Nikos A. Aspragathos,Panagiotis N.

Koustoumpardis, Vassilis C. Moulianitis, 2018-09-28 This volume contains the proceedings of the RAAD 2018 conference covering major areas of research and development in robotics. It provides an overview on the advances in robotics more specifically in novel design and applications of robotic systems: dexterous grasping, handling and intelligent manipulation; intelligent cooperating and service robots; advanced robot control; human robot interfaces; robot vision systems and visual serving techniques; mobile robots; humanoid and walking robots; field and agricultural robotics; bio-inspired and swarm robotic systems; developments towards micro and nano scale robots; aerial, underwater and spatial robots; robot integration in holonic manufacturing; personal robots for ambient assisted living; medical robots and bionic prostheses; intelligent information technologies for cognitive robots etc. The primary audience of the work are researchers as well as engineers in robotics and mechatronics. **A Work-piece Based Approach for Programming Cooperating Industrial Robots** Sherif Zaidan, 2013

Control, Models and Industrial Manipulators Erik Hedberg, 2020-11-23 The two topics at the heart of this thesis are how to improve control of industrial manipulators and how to reason about the role of models in automatic control. On industrial manipulators two case studies are presented. The first investigates estimation with inertial sensors and the second compares control by feedback linearization to control based on gain scheduling. The contributions on the second topic illustrate the close connection between control and estimation in different ways. A conceptual model of control is introduced which can be used to emphasize the role of models as well as the human aspect of control engineering. Some observations are made regarding block diagram reformulations that illustrate the relation between models, control and inversion. Finally a suggestion for how the internal model principle, internal model control, disturbance observers and Youla-Kucera parametrization can be introduced in a unified way is presented. **Fundamentals of Robotics Engineering** Harry H. Poole, 2012-12-06 Robotics engineering has progressed from an infant industry in 1961 to one including over 500 robot and allied firms around the world in 1989. During this growth period many robotics books have been published, some of which have served as industry standards. Until recently the design of robotics systems has been primarily the responsibility of the mechanical engineer and their application in factories has been the responsibility of the manufacturing engineer. Few robotics books address the many systems issues facing electronics engineers or computer programmers. The mid 1980s witnessed a major change in the robotics field. The development of advanced sensor systems, particularly vision improvements in the intelligence area and the desire to integrate groups of robots working together in local work cells or in factory wide systems have greatly increased the participation of electronics engineers and computer programmers. Further as robots gain in mobility they are being used in completely new areas such as construction, firefighting and underwater exploration and the need for computers and smart sensors has increased. *Fundamentals of Robotics Engineering* is aimed at the practicing electrical engineer or computer analyst who needs to review the fundamentals of engineering as applied to robotics and to understand the impact on system design caused by constraints unique to robotics. Because there are many good texts covering mechanical engineering topics

this book is limited to an overview of those topics and the effects they have on electrical design and system programs

Robot Technology and Applications K. Rathmill, P. MacConaill, S. O'Leary, J. Browne, 2013-06-29 An Overview of Artificial Intelligence and Robotics William B. Gevarter, 1982

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Table of Contents 1 2 Industrial Robots Definition And Classification

1. Understanding the eBook 1 2 Industrial Robots Definition And Classification
 - The Rise of Digital Reading 1 2 Industrial Robots Definition And Classification
 - Advantages of eBooks Over Traditional Books
2. Identifying 1 2 Industrial Robots Definition And Classification
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 1 2 Industrial Robots Definition And Classification
 - User-Friendly Interface
4. Exploring eBook Recommendations from 1 2 Industrial Robots Definition And Classification
 - Personalized Recommendations
 - 1 2 Industrial Robots Definition And Classification User Reviews and Ratings
 - 1 2 Industrial Robots Definition And Classification and Bestseller Lists

5. Accessing 1 2 Industrial Robots Definition And Classification Free and Paid eBooks
 - 1 2 Industrial Robots Definition And Classification Public Domain eBooks
 - 1 2 Industrial Robots Definition And Classification eBook Subscription Services
 - 1 2 Industrial Robots Definition And Classification Budget-Friendly Options
6. Navigating 1 2 Industrial Robots Definition And Classification eBook Formats
 - ePub, PDF, MOBI, and More
 - 1 2 Industrial Robots Definition And Classification Compatibility with Devices
 - 1 2 Industrial Robots Definition And Classification Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 1 2 Industrial Robots Definition And Classification
 - Highlighting and Note-Taking 1 2 Industrial Robots Definition And Classification
 - Interactive Elements 1 2 Industrial Robots Definition And Classification
8. Staying Engaged with 1 2 Industrial Robots Definition And Classification
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 1 2 Industrial Robots Definition And Classification
9. Balancing eBooks and Physical Books 1 2 Industrial Robots Definition And Classification
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 1 2 Industrial Robots Definition And Classification
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 1 2 Industrial Robots Definition And Classification
 - Setting Reading Goals 1 2 Industrial Robots Definition And Classification
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 1 2 Industrial Robots Definition And Classification
 - Fact-Checking eBook Content of 1 2 Industrial Robots Definition And Classification
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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