# Global Robotics Technology Market Types Components And

Introduces designers to hardware and software tools
necessary for planning, laying out, and building advanced
robot-based manufacturing cells surveying the available
technology for creating innovative machines suitable to
individual needs. Considers assembly system simulation, task-
oriented programm
Cybernics plays a significant role in coping with an aging
society using state-of-the-art technologies from engineering,
clinical medicine and humanities. This new interdisciplinary
field studies technologies that enhance, strengthen, and
support physical and cognitive functions of human beings,
based on the fusion of human, machine, and information
systems. The design of a seamless interface for interaction
between the interior and exterior of the human body is
described in this book from diverse aspects such as the
physical, neurophysiological, and cognitive levels. It is the first
book to cover the many aspects of cybernics, allowing
readers to understand the life support robotics technology for
the elderly, including remote, in-home, hospital, institutional,
community medical welfare, and vital-sensing systems.
Serving as a valuable resource, this volume will interest not
only graduate students, scientists, and engineers but also
newcomers to the field of cybernics.
The era of the fourth industrial revolution has fundamentally
transformed the manufacturing landscape. Products are
getting increasingly complex and customers expect a higher
level of customization and quality. Manufacturing in the Era of
4th Industrial Revolution explores three technologies that are
the building blocks of the next-generation advanced
manufacturing.The first technology covered in Volume 1 is

Additive Manufacturing (AM). AM has emerged as a very popular manufacturing process. The most common form of AM is referred to as 'three-dimensional (3D) printing'. Overall, the revolution of additive manufacturing has led to many opportunities in fabricating complex, customized, and novel products. As the number of printable materials increases and AM processes evolve, manufacturing capabilities for future engineering systems will expand rapidly, resulting in a completely new paradigm for solving a myriad of global problems.The second technology is industrial robots, which is covered in Volume 2 on Robotics. Traditionally, industrial robots have been used on mass production lines, where the same manufacturing operation is repeated many times. Recent advances in human-safe industrial robots present an opportunity for creating hybrid work cells, where humans and robots can collaborate in close physical proximities. This Cobots, or collaborative robots, has opened up to opportunity for humans and robots to work more closely together. Recent advances in artificial intelligence are striving to make industrial robots more agile, with the ability to adapt to changing environments and tasks. Additionally, recent advances in force and tactile sensing enable robots to be used in complex manufacturing tasks. These new capabilities are expanding the role of robotics in manufacturing operations and leading to significant growth in the industrial robotics area.The third technology covered in Volume 3 is augmented and virtual reality. Augmented and virtual reality (AR/VR) technologies are being leveraged by the manufacturing community to improve operations in a wide variety of ways. Traditional applications have included operator training and design visualization, with more recent applications including interactive design and manufacturing planning, human and robot interactions, ergonomic analysis, information and knowledge capture, and manufacturing

simulation. The advent of low-cost solutions in these areas is accepted to accelerate the rate of adoption of these technologies in the manufacturing and related sectors.Consisting of chapters by leading experts in the world, Manufacturing in the Era of 4th Industrial Revolution provides a reference set for supporting graduate programs in the advanced manufacturing area.

This book gathers the proceedings of the 5th International Conference on the Industry 4.0 Model for Advanced Manufacturing (AMP 2020), held in Belgrade, Serbia, on 1–4 June 2020. The event marks the latest in a series of high-level conferences that bring together experts from academia and industry to exchange knowledge, ideas, experiences, research findings, and information in the field of manufacturing. The book addresses a wide range of topics, including: design of smart and intelligent products, developments in CAD/CAM technologies, rapid prototyping and reverse engineering, multistage manufacturing processes, manufacturing automation in the Industry 4.0 model, cloud-based products, and cyber-physical and reconfigurable manufacturing systems. By providing updates on key issues and highlighting recent advances in manufacturing engineering and technologies, the book supports the transfer of vital knowledge to the next generation of academics and practitioners. Further, it will appeal to anyone working or conducting research in this rapidly evolving field.

Delivering comprehensive coverage of current domestic and global trends, TRANSPORTATION: A SUPPLY CHAIN PERSPECTIVE, 8E equips readers with a solid understanding of what is arguably the most critical?and complex?component of global supply chains. Taking a managerial approach, the text explains the fundamental role and importance of transportation in companies and in society,

as well as the complex environment in which transportation service is provided today. It provides a framework and foundation for the role of transportation from a micro and macro perspective in supply chains. It also offers an overview of the operating and service characteristics, cost structure, and current challenges faced by current providers of transportation. In addition, the authors spotlight a variety of critical transportation management issues, providing insightful discussions of the strategic activities and challenges involved in the movement of goods through the supply chain. Completely up to date, the Eighth Edition features new readings, cases, and examples. It emphasizes global topics throughout, includes new coverage of hard and soft technology, and offers expanded discussions of fuel, energy, managerial, economic, and environmental issues. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Understanding Robotics is an introductory text on robotics and covers topics ranging from from the components of a robotic system, including sensors, to the industrial applications of robotics. The major factors justifying the use of robots for manufacturing are also discussed, along with the use of robots as a manufacturing tool, their impact on people, and the future of robotics. This book is comprised of eight chapters and begins with an overview of the roots of robotics and the use of robots in the manufacturing environment; advances in robot technology and typical applications of robots; reasons for using robots in the manufacturing environment; and the different manufacturing functions they perform, including visual inspection and intricate welding operations. A definition of the word ""robot"" is presented, and the impact of robots on jobs is considered. Subsequent chapters focus on the elements of a robot system, including

the computer/controller, actuator power drive, and sensors; sensor applications in robotics; robotic usage by industry; economic justification of robotics; manufacturing technology and the role robotics can play in improving the United States' competitive manufacturing position; and the impact of robots on people and vice versa. The final chapter is devoted to market trends and competitiveness of the U.S. robotics industry and assesses the future prospects of robotics. This monograph should be a valuable resource for technologists and researchers interested in robots and robotics.

This book begins with the past and present of the subversive technology of artificial intelligence, clearly analyzes the overall picture, latest developments and development trends of the artificial intelligence industry, and conducts in-depth research on the competitive situation of various countries. The book also provides an in-depth analysis of the opportunities and challenges that artificial intelligence brings to individuals, businesses, and society. For readers who want to fully understand artificial intelligence, this book provides an important reference and is a must-read. Tencent Research Institute is a public strategy research unit of Tencent. Taking advantage of Tencent's diversified products, enriched practices and huge data asset, TRI focuses its effort on major issues of internet development. Through the open, collaborative research platform it has built, TRI aims to unite leading brains from walks of life in promoting healthy, orderly development of digital economy and society by providing cutting-edge thinking. Internet Law Research Center of China Academy of Information and Communications Technology(CAICT): Internet Law Research Center of CAICT is committed to research on legal and policy issues in the fields of information and communication, the Internet, big data, and related international rules, market opening and institutional reforms in the WTO, providing legislative and

policy advice to relevant government departments, and building platforms for communication and collaboration between government and enterprises. Tencent AI Lab was established in April 2016, with more than 70 world-class AI PhDs and more than 300 experienced application engineers. The lab specializes in basic research in the fields of machine learning, computer vision, speech recognition and natural language understanding. It combines content, games, social and platform tools to explore the four AI applications. Tencent open platform is provided as a large stage for developers who can use the various product capabilities provided by Tencent's open platform to develop excellent applications and tools, and gain huge traffic and revenue. In the AI era, the platform brings together top AI technologies, professionals and industry resources to incubate and build high-quality AI entrepreneurial projects to help AI capabilities apply in the segmentation field.--

The volume includes a set of selected papers extended and revised from the 2011 International Conference on Mechanical Engineering and Technology, held on London, UK, November 24-25, 2011. Mechanical engineering technology is the application of physical principles and current technological developments to the creation of useful machinery and operation design. Technologies such as solid models may be used as the basis for finite element analysis (FEA) and / or computational fluid dynamics (CFD) of the design. Through the application of computer-aided manufacturing (CAM), the models may also be used directly by software to create "instructions" for the manufacture of objects represented by the models, through computer numerically controlled (CNC) machining or other automated processes, without the need for intermediate drawings. This volume covers the subject areas of mechanical engineering and technology, and also covers interdisciplinary subject

areas of computers, communications, control and automation. We hope that researchers, graduate students and other interested readers benefit scientifically from the book and also find it stimulating in the process.

Abstracts of XII International Scientific and Practical Conference

Strategic foresight is discipline that organizations adopt to gather, interpret, manage information about the future environment they plan to operate in. This book introduces the concept of strategic foresight and advocates a holistic and systemic foresight approach comprising five phases that are suitable for organizations in the public and private sectors. Using real?life cases as practical examples, the book demonstrates how organizations can apply a range of foresight methods and resources across the phases from intelligence to implementation. The book offers an opportunity to learn by all key stakeholders. It enhances the understanding of the National Research Organization's Foresight exercise (as the complex social phenomenon) in its context. The case study of the National Research Organisation provides lessons and insights that can improve both the theoretical and practical implementation of the Foresight Exercise. Dr Mlungisi Cele Acting Head: National Advisory Council on Innovation Department of Science and Technology, Republic of South Africa Foresight methodologies have been widely spreading among business and research organizations worldwide during the last decades. The weakest point of many forward-looking activities so far was the lack of their practical use. The books shows, on a number of cases, how a Foresight study, being wisely designed and implemented, can become a useful navigation tool for increasing competitiveness in the fast changing environment. Dr Alexander Sokolov Professor, HSE National Research University, Russia Director, Institute for

Statistical Studies and Economics of Knowledge / International Research and Educational Foresight Centre Very useful tool to describe how organizations assess the future and formulate strategic plans using a systemic foresight methodology Ibon Zugasti Managing Director in PROSPEKTIKER and Chair of the Millennium Project Node in Spain A comprehensive source of knowledge on complex issues of technology foresight process, from conception to commercialization of key technologies, made easy to understand and useful for aspiring futurists seeking to learn more about the matters at hand. Dr Surachai Sathitkunarat Executive Director, APEC Center for Technology Foresight (APEC CTF) Assistant to the President Office of National Higher Education, Science, Research and Innovation Policy Council (NXPO) Thailand This book provides a very good coverage of the end-to-end methodology for technology-based innovation through the use of diverse and relevant business use cases. Very often, books on this theme only expound the approaches. Sarah goes beyond in sharing the pitfalls and challenges during the different stages of the systemic foresight methodology so that readers can learn and avoid the mistakes that other companies made. The emphasis on open innovation and intellectual property management is valuable as many organizations fail to deliver the vision due to insufficient attention on these two aspects. A must read if you wish to master strategic foresight. Dr Terence Hung Chief, Future Intelligence Technologies Rolls-Royce Singapore Pte Ltd Why do people want to know the future? People want to use budget efficiently or don't want to waste time? Aside from those who see the future, like fortune tellers, how do we make the future? Foresight is known as a method of creating the future in a way that many people has been using. So how is it different between Forecast and Foresight? This book will help answer that. Dr Kuniko

Urashima Deputy Director of Foresight Center National Institute of Science and Technology Policy (NISTEP), Japan . This book is aimed at assisting Western entrepreneurs, SMEs, investors and business students to understand and ideally enter the Chinese e-merging market. Over the past decades China gained the reputation of being the world's factory, focusing solely on manufacturing exports. This is about to change. The role of e-commerce is tremendously important in the context of the Chinese government's stated goal of relying less on exports to the recession-stricken West and focusing more on domestic consumption as a driver for further economic growth. China's online population is currently the largest online population worldwide. This book is aimed at assisting Western entrepreneurs, SMEs, investors and business students to understand and ideally enter the Chinese e-merging market. E-Commerce is an easy, fast, and cost-effective way of entering the Chinese market compared to more traditional ways of entry. It offers great opportunities for high profit gains to Western companies seeking to do business in China without the hurdle of heavy upfront investment. This book is designed to work as a step-by-step guide to the online marketplace environment in China. It provides a detailed overview of the Chinese online market and proposes different strategies available to foreign companies. It contains practical advice, the latest data and relevant links for further reference that Western SMEs, investors, and entrepreneurs can use to establish their online presence in China.

In today's high-pressured world, digital transformation is everywhere on the agendas of corporate boards and has risen to the top of CEOs' strategic plans. Artificial intelligence, blockchain, 3D printing, the Internet of Things, and drones are some of the emerging technologies that are already transforming our world. In this fast changing domain—

predicted by few and now reality for all how can companies
transform today's challenges into tomorrow's opportunities?
This book is targeted to help a broad audience such as
students, professionals, business, and technology managers
to transform an old-world brick and mortar organization to a
new-world digital leader. The author addresses various
questions including: what essential components does digital
transformation include, and how does it impact the
enterprise? How does convergence of emerging technologies
benefit your organization? How can you start transformation
and technology planning projects?

This book covers all aspects of robot intelligence from
perception at sensor level and reasoning at cognitive
level to behavior planning at execution level for each low
level segment of the machine. It also presents the
technologies for cognitive reasoning, social interaction
with humans, behavior generation, ability to cooperate
with other robots, ambience awareness, and an artificial
genome that can be passed on to other robots. These
technologies are to materialize cognitive intelligence,
social intelligence, behavioral intelligence, collective
intelligence, ambient intelligence and genetic
intelligence. The book aims at serving researchers and
practitioners with a timely dissemination of the recent
progress on robot intelligence technology and its
applications, based on a collection of papers presented
at the 4th International Conference on Robot Intelligence
Technology and Applications (RiTA), held in Bucheon,
Korea, December 14 - 16, 2015. For better readability,
this edition has the total of 49 articles grouped into 3
chapters: Chapter I: Ambient, Behavioral, Cognitive,
Collective, and Social Robot Intelligence, Chapter II:

Computational Intelligence and Intelligent Design for Advanced Robotics, Chapter III: Applications of Robot Intelligence Technology .

Robot Systems for Rail Transit Applications presents the latest advances in robotics and artificial intelligence for railway systems, giving foundational principles and running through special problems in robot systems for rail transit. State-of-the art research in robotics and railway systems is presented alongside a series of real-world examples. Eight chapters give definitions and characteristics of rail transit robot systems, describe assembly and collaborative robots in manufacturing, introduce automated guided vehicles and autonomous rail rapid transit, demonstrate inspection robots, cover trench robots, and explain unmanned aerial vehicles. This book offers an integrated and highly-practical way to approach robotics and artificial intelligence in rail-transit. Introduces robot and artificial intelligence (AI) systems for rail transit applications Presents research alongside step-by-step coverage of real-world cases Gives the theoretical foundations underlying practical application Offers solutions for high-speed railways from the latest work in robotics Shows how robotics and AI systems afford new and efficient methods in rail transit Presents industry reviews including a section of "trends and forecasts," complete with tables and graphs for industry analysis.

About the Handbook of Industrial Robotics, Second Edition: "Once again, the Handbook of Industrial Robotics, in its Second Edition, explains the good ideas and knowledge that are needed for solutions."

-Christopher B. Galvin, Chief Executive Officer, Motorola, Inc. "The material covered in this Handbook reflects the new generation of robotics developments. It is a powerful educational resource for students, engineers, and managers, written by a leading team of robotics experts." - Yukio Hasegawa, Professor Emeritus, Waseda University, Japan. "The Second Edition of the Handbook of Industrial Robotics organizes and systematizes the current expertise of industrial robotics and its forthcoming capabilities. These efforts are critical to solve the underlying problems of industry. This continuation is a source of power. I believe this Handbook will stimulate those who are concerned with industrial robots, and motivate them to be great contributors to the progress of industrial robotics." -Hiroshi Okuda, President, Toyota Motor Corporation. "This Handbook describes very well the available and emerging robotics capabilities. It is a most comprehensive guide, including valuable information for both the providers and consumers of creative robotics applications." -Donald A. Vincent, Executive Vice President, Robotic Industries Association 120 leading experts from twelve countries have participated in creating this Second Edition of the Handbook of Industrial Robotics. Of its 66 chapters, 33 are new, covering important new topics in the theory, design, control, and applications of robotics. Other key features include a larger glossary of robotics terminology with over 800 terms and a CD-ROM that vividly conveys the colorful motions and intelligence of robotics. With contributions from the most prominent names in robotics

worldwide, the Handbook remains the essential resource on all aspects of this complex subject.

This report provides: An overview of recent key developments in the global market for robotics and a look ahead at the next five years. Analyses of global market trends, with data from 2014, 2015, and projections of compound annual growth rates (CAGRs) through 2020. A review of the history of the robotics industry, and of the six basic types of robots: industrial, domestic service, professional service, security, space, and military. Examination of the basic technology and components (e.g., power supplies, end effectors) that are required on all types of robots. Discussion of the broader economic, national policy, and industrial development issues that support, and in some cases, impede the adoption of robotic technology. A developmental perspective of the robotics industry, as documented by its patent history. Comprehensive company profiles of major players in the industry.

Robotics technology aims to improve productivity and product quality, and to eliminate workplace hazards, such as those related to exposure to heat, gases and chemicals or those where heavy lifting or monotonous work movements are involved. Published jointly by the United Nations and the International Federation of Robotics (IFR), this annual publication contains comparable international statistics on industrial robotics, as well as on service robots. Detailed statistics are given for 20 countries, broken down by application areas, industrial branches, types of robots and by other techno-economic variables, as well as data on production,

exports and imports for selected countries. It also highlights trends in robot densities. This edition analyses developments during 2003 and gives forecasts up to 2007. It contains a number of case studies showing actual robot installations and their effect on costs, production, employment structure and overall profitability.

World-renowned economist Klaus Schwab, Founder and Executive Chairman of the World Economic Forum, explains that we have an opportunity to shape the fourth industrial revolution, which will fundamentally alter how we live and work. Schwab argues that this revolution is different in scale, scope and complexity from any that have come before. Characterized by a range of new technologies that are fusing the physical, digital and biological worlds, the developments are affecting all disciplines, economies, industries and governments, and even challenging ideas about what it means to be human. Artificial intelligence is already all around us, from supercomputers, drones and virtual assistants to 3D printing, DNA sequencing, smart thermostats, wear-able sensors and microchips smaller than a grain of sand. But this is just the beginning: nanomaterials 200 times stronger than steel and a million times thinner than a strand of hair and the first transplant of a 3D printed liver are already in development. Imagine "smart factories" in which global systems of manufacturing are coordinated virtually, or implantable mobile phones made of biosynthetic materials. The fourth industrial revolution, says Schwab, is more significant, and its ramifications more profound, than in any prior period of human history.

He outlines the key technologies driving this revolution and discusses the major impacts expected on government, business, civil society and individuals. Schwab also offers bold ideas on how to harness these changes and shape a better future--one in which technology empowers people rather than replaces them; progress serves society rather than disrupts it; and in which innovators respect moral and ethical boundaries rather than cross them. We all have the opportunity to contribute to developing new frameworks that advance progress.

MIG (metal inert gas) welding, also known as gas metal arc welding (GMAW), is a key joining technology in manufacturing. MIG welding guide provides a comprehensive, practical and accessible guide to this widely used process. Part one discusses the range of technologies used in MIG welding, including power sources, shielding gases and consumables. Fluxed cored arc welding, pulsed MIG welding and MIG brazing are also explored. Part two reviews quality and safety issues such as improving productivity in MIG/MAG welding, assessing weld quality, health and safety, and methods for reducing costs. The final part of the book takes a practical look at the applications of MIG welding, with chapters dedicated to the welding of steel and aluminium, the use of robotics in MIG welding, and the application of MIG welding in the automotive industry. MIG welding guide is essential reading for welding and production engineers, designers and all those involved in manufacturing. Provides extensive coverage on gas metal arc welding, a key process in industrial

manufacturing User friendly in its language and layout Looks at the practical applications of MIG welding These two volumes constitute the refereed proceedings of the First International Conference on Intelligent Robotics and Applications, ICIRA 2008, held in Wuhan, China, in October 2008. The 265 revised full papers presented were thoroughly reviewed and selected from 552 submissions; they are devoted but not limited to robot motion planning and manipulation; robot control; cognitive robotics; rehabilitation robotics; health care and artificial limb; robot learning; robot vision; human-machine interaction & coordination; mobile robotics; micro/nano mechanical systems; manufacturing automation; multi-axis surface machining; realworld applications.

Strategic ForesightAccelerating Technological ChangeWalter de Gruyter GmbH & Co KG This book presents the proceedings of The 2020 International Conference on Machine Learning and Big Data Analytics for IoT Security and Privacy (SPIoT-2020), held in Shanghai, China, on November 6, 2020. Due to the COVID-19 outbreak problem, SPIoT-2020 conference was held online by Tencent Meeting. It provides comprehensive coverage of the latest advances and trends in information technology, science and engineering, addressing a number of broad themes, including novel machine learning and big data analytics methods for IoT security, data mining and statistical modelling for the secure IoT and machine learning-based security detecting protocols, which inspire the development of IoT security and privacy

technologies. The contributions cover a wide range of topics: analytics and machine learning applications to IoT security; data-based metrics and risk assessment approaches for IoT; data confidentiality and privacy in IoT; and authentication and access control for data usage in IoT. Outlining promising future research directions, the book is a valuable resource for students, researchers and professionals and provides a useful reference guide for newcomers to the IoT security and privacy field

Recent years have yielded significant advances in computing and communication technologies, with profound impacts on society. Technology is transforming the way we work, play, and interact with others. From these technological capabilities, new industries, organizational forms, and business models are emerging. Technological advances can create enormous economic and other benefits, but can also lead to significant changes for workers. IT and automation can change the way work is conducted, by augmenting or replacing workers in specific tasks. This can shift the demand for some types of human labor, eliminating some jobs and creating new ones. Information Technology and the U.S. Workforce explores the interactions between technological, economic, and societal trends and identifies possible near-term developments for work. This report emphasizes the need to understand and track these trends and develop strategies to inform, prepare for, and respond to changes in the labor market. It offers evaluations of what is known, notes open questions to be addressed, and

identifies promising research pathways moving forward. The use of industrial robots aims to improve productivity and to obtain higher and more consistent product quality. Robotics technology is also used to eliminating workplace hazards such as those related to exposure to heat, gases and chemicals or those where heavy lifting or monotonous work movements are involved. This publication summarises the development of industrial robots to date. It contains detailed statistical data for 20 countries, broken down by application, industry, types of robots and other technical and economic variables. Data on production, exports and imports are presented for selected countries. The publication also includes forecasts to 2003 and an analysis of the diffusion of service robots i.e. robots which perform tasks such as cleaning, providing assistance for disabled people, fire and bomb fighting, which are in the early phase of development.

Where exactly is innovation taking place? Relying on millions of patent and scientific publication records, the World Intellectual Property Report 2019 documents how the geography of innovation has evolved over the past few decades.

Do you want to learn? *What is Robotics with complete History of Artificial Intelligence?*Types of Robots and comparison between perception and reality of robots?*How to do Programming of Robots?*What are the Trends of Robotic Technology nowadays?*How to Make a simple Walking Robot?If your answer is "Yes,"Then you are at the right place for sure!Nowadays, we see most robots working for humans in industries,

farms, warehouses, and laboratories. Robots are useful in a variety of areas. It improves the economy, for example, and firms need to be competitive to keep up with the market's competitiveness. Robots, therefore, allow company owners to compete, so robots can do jobs more straightforward and quicker than people can, e.g., a robot can build, a vehicle can be assembled. But robots cannot do every position; the functions of robots today include serving science and industry. Finally, as technology advances, there will be new opportunities to employ robotics to offer new aspirations and new potentials.Achieving secure human-robot interaction is one of the main obstacles of robotics. Systems that do not affect human beings during service must be planned. However, due to the lack of real-world implementations for Fri, relatively little study has been conducted about how to test, score, and improve robots' protection for activities of direct human interaction. The term safe has been mostly used to mark durable robotic components for which the failure rate must be reduced and the reliability must be maximized. In this context, the monograph provides the first large-scale investigation of potential injury to humans due to collisions with robots and elaborates on the significant factors involved in this dynamic topic.Read the complete book for knowledge. This book gathers the proceedings of the EPPM 2019 conference, and highlights innovative work by researchers and practitioners active in various industries around the globe. Recent advances in science and technology have made it possible to seamlessly connect and integrate various elements of engineering systems,

and opened the door for innovations that have transformed how we live and work. While these developments have yielded enhanced efficiency and numerous improvements in our current practices, the problems caused by the increased complexity of these integrated systems can be extremely difficult. Accordingly, solving these problems involves applying cross-disciplinary expertise to address the heterogeneity of the various elements inherent in the system. These proceedings address four main themes: (I) Smart and Sustainable Construction, (II) Advances in Project Management Practices, (III) Toward Safety and Productivity Improvement, and (IV) Smart Manufacturing, Design, and Logistics. As such, they will be of interest to and valuable to researchers and practitioners in a range of industries seeking an update on the translational fields of engineering, project, and production management. This publication highlights new evidence on policies to support job creation, bringing together the latest research on labour market, entrepreneurship and local economic development policy to help governments support job creation in the recovery.