

# World Robotics 2017 International Federation Of Robotics

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### World Robotics 2017 International Federation

#### **World Robotics 2017 - International Federation of Robotics**

20 Executive Summary World Robotics 2017 Industrial Robots The average global robot density is about 74 industrial robots installed per 10,000 employees in the manufacturing industry in 2016 The most automated countries in the world are the Republic of Korea, Singapore, Germany and Japan

#### **Service Robots - International Federation of Robotics**

This is according to the 2019 World Robotics Report - Service Robots, presented by the International Federation of Robotics (IFR) "In terms of value, the sales forecast for 2019 indicates a cumulative volume of around units, up from roughly 168,000 in 2017

#### **Action Document for an international alliance for a human ...**

Europe has a strong industry and AI research community, producing more than a quarter of the world's industrial and professional service robots (World Robotics 2017, International Federation of Robotics) Promotion of an appropriate ethical and legal framework globally will facilitate AI

#### **Global robot installations: high double digit growth rates**

Source: World Robotics 2017 Bruno Schnekenburger and Gudrun Litzenberger Page 1 | 19 April 2018 +18% Estimated annual worldwide supply of industrial robots 2008-2016 and 2017-2020\* +15% on average per year Incentives for robot installations in the Russian Federation

#### **Robot-ready: Adopting a new generation of industrial robots**

competitors are—both domestically and globally The US ranks seventh in the world in "robot density," lagging far below Korea (see sidebar) China's 2017 shipments of industrial robots are estimated at 115,000, more than tripling those in the US, according to the International Federation of Robotics (IFR) (see following table)

#### **Proceedings of the 20th World Congress The International ...**

Marine Robotics" (Grant Agreement No 691980) of information gain, depends on the mission itself, but also on the science field for which the marine

vehicle is

### **The Rise of Robots in China**

Annual sales of robots in China have risen dramatically (International Federation of Robotics 2017), as shown in Table 1 In 2000, a mere 380 units were sold in China, accounting for only 04 percent of the world total; China's share rose to 37 percent of annual global sales in 2005 and 124 percent in 2010 In 2016, sales further rose to

### **THAILAND'S AUTOMATION & ROBOTICS**

international and local companies producing a wide array of products Source: 1 OpenGov Royal Thai Embassy of Washington DC Source: 1 International Federation of Robotics as of 2017, 2 Organisation Internationale des Constructeurs d'Automobiles, 3 Bank of Thailand, 4 International Trade Centre Thailand's Expectations Over The Next 5 Years1

### **INVITATION rg THE 20TH WORLD CONGRESS OF THE ...**

THE 20TH WORLD CONGRESS OF THE INTERNATIONAL FEDERATION OF AUTOMATIC CONTROL wwwifac2017o rg The IFAC 2017 World Congress will be a precious opportunity for researchers and practitioners from academic and industrial sectors to meet, discuss and contribute

### **Autonomous Robotics - Siemens**

whole industry is a market momentum: China is the world's largest market of robotics In 2019 some 40 percent of the worldwide market volume of industrial robots will be sold there alone, according to the 2016 World Robotics Report, as published by the International Federation of Robotics (IFR)

### **Pure-play investing in the age of automation Credit Suisse ...**

World Robotics 2018 - Service Robots, International Federation of Robotics, October 2017 Risks j The investor may lose part or all of the invested amount j Focus on companies active in the robotics sector can lead to significant sector/regional exposure j A slowdown in the ...

### **The Industrial Robotics Industry in China: Demand and ...**

International Federation of Robotics World Robotics Industrial Robots 2014 firms in 2017 to over 6,500, and they compete with foreign firms and their Chinese subsidiaries (table 1) 8 While the country does not differentiate between parts makers or robot system integrators, 9

### **Center for Occupational Robotics Research**

industrial robots 2011-2017 and 2018-2021\* (in thousands of units) Source: International Federation of Robotics [2018] Executive Summary World Robotics 2018 Industrial Robots \*2018-2021 are projected numbers Traditional versus collaborative industrial robots in units sold worldwide\* Source: Loup Ventures [2017] Industrial: Robotics

### **Proceedings of the 20th World Congress Toulouse, France ...**

Proceedings of the 20th World Congress Toulouse, France 10494

### **A COBOT IS A COLLABORATIVE ROBOT — ONE THAT WORKS ...**

(1) International Federation of Robotics, World Robotics 2018 (2) Robotic Industries Association, citing Loup Ventures report (3) Markets and Markets: "Collaborative Robot Market by Payload Capacity, Industry, Application, and Geography — Global Forecast to 2025" (4) International Federation of Robotics, World Robotics 2018 (5)

### **ON THE ROAD: FROM INDUSTRY 4.0 TO SOCIETY 4**

Source: Processed from World Robotics Report 2016, (International Federation of Robotics (IFR), 2016) Figure 2 Robotization in Industries - Czech

Republic Source: Adapted from (Vyhnanovský, 2017) 531 398 305 301 212 190 188 176 169 160 150 136 128 127 126 120 119 110 93 86 79 71 69 0  
100 200 300 400 500 600 Republic of Korea Japan Sweden

### **DRONES IN THE - responsible-robotics-myxf6pn3xr.netdna ...**

According to the International Federation for Robotics, global drone sales registered a new peak of US \$131 billion in 2016<sup>4</sup> The same year, a PwC report estimated the value of "drone powered solutions" in industries at \$1273 billion dollars<sup>5</sup> These numbers indicate that drones are becoming a pervasive civilian technology

### **A Brave New World: Technology & Education**

A Brave New World: Technology & Education Rapid technological advances can have an impact on personal, social and professional development Implications for education include changes in the demand for knowledge and skills as well as expanding possibilities for ...

### **A COBOT IS A COLLABORATIVE ROBOT – ONE THAT WORKS ...**

(1) International Federation of Robotics, World Robotics 2018 (2) Robotic Industries Association, citing Loup Ventures report (3) Markets and Markets: "Collaborative Robot Market by Payload Capacity, Industry, Application, and Geography – Global Forecast to 2025" (4)