

5G and Robotics: Emerging Technologies, Solutions, Market Outlook and Forecasts

<https://marketpublishers.com/r/5951F05FCD8EN.html>

Date: June 2016

Pages: 65

Price: US\$ 995.00 (Single User License)

ID: 5951F05FCD8EN

Abstracts

Overview:

Robotics is on a high growth trajectory within both industrial and consumer sectors. The fifth generation (5G) of wireless technology will provide the communications and bandwidth necessary to allow various industries to leverage the next phase of robotics evolution. Enterprise users will capitalize upon new and enhanced robotics capabilities to enable new use cases and improved work flow. Many business processes will change as enterprise becomes more savvy about the flexibility of robotics uninhibited by bandwidth constraints.

This research assesses the impact of 5G on robotics industry including industry verticals and leading vendors. The report evaluates the impact of artificial intelligence on robotics combined with 5G. The report analyzes emerging areas and those enhanced by 5G such as remote operation and cognition as a service respectively. This report includes forecasts for 5G enabled autonomous robots on global and regional basis.

Key Findings:

Certain industries will become early beneficiaries of 5G enabled robotics

The 5G enabled autonomous robot market is expected to reach \$14.6 billion by 2030

North America will lead the 5G enabled autonomous robot market with 41% revenue share

Robotics are expected to transform in terms of functionality and usefulness across a broad range of industries

Target Audience:

Robotics companies

5G infrastructure suppliers

Internet of Things companies

Big Data and analytics companies

Artificial Intelligence companies

Enterprise in all industry verticals

Contents

1 INTRODUCTION

- 1.1 5G Network Requirements and Roadmap
- 1.2 5G Mobile Services
- 1.3 Robots
 - 1.3.1 Industrial Robotics
 - 1.3.2 Consumer Robotics
- 1.4 Generation of Robotics
- 1.5 5G Enabled Autonomous Robots

2 5G ROBOT SERVICES

- 2.1 Robot Based Service
 - 2.1.1 Cyber Physical System
- 2.2 5G Robot Service Types
 - 2.2.1 Teleoperation Service
 - 2.2.2 Smart Industrialization Service
- 2.3 5G Robot Service Requirements

3 MARKET DYNAMICS ANALYSIS

- 3.1 Growth Factors
 - 3.1.1 Proliferation of Connected Devices
 - 3.1.2 IoT Use Cases
 - 3.1.3 Software Defined Infrastructure
 - 3.1.4 Processing and Storage in Cloud
 - 3.1.5 Remote Operation
 - 3.1.6 Cognition as a Services
 - 3.1.7 Robot Sensors
 - 3.1.8 Use of Artificial Intelligence
 - 3.1.9 Mobile Cloud Robotics
 - 3.1.10 Robotics APIs
 - 3.1.11 Investment in 5G and Robotics
- 3.2 Technology and Market Limitations

4 5G ENABLED ROBOTICS APPLICATIONS

- 4.1 Healthcare Services
- 4.2 Manufacturing Processes and Logistics
- 4.3 Autonomous Vehicles
- 4.4 Smart Factories
- 4.5 Agriculture
- 4.6 Private Security and Public Safety
- 4.7 Retail Services
- 4.8 Transportation
- 4.9 Military Services

5 5G ENABLED ROBOTICS SOLUTION PROVIDERS

- 5.1 Intel
- 5.2 Asus
- 5.3 Samsung
- 5.4 Ericsson
- 5.5 Nokia
- 5.6 Honda Motors
- 5.7 Adept Technology
- 5.8 Lely Group
- 5.9 Google
- 5.10 Northrop Grumman Corporation
- 5.11 Bluefin Robotics Corporation
- 5.12 ABB Ltd
- 5.13 Yaskawa Electric Corporation
- 5.14 Amazon Robotics
- 5.15 iRobot
- 5.16 Auris Surgical Robotics
- 5.17 3D Robotics
- 5.18 Paslin
- 5.19 KUKA
- 5.20 SoftBank
- 5.21 RealDoll
- 5.22 True Companion

6 5G ENABLED AUTONOMOUS ROBOT FORECASTS

- 6.1 Global Market Revenue
 - 6.1.1 Autonomous Robot Market

6.1.2 5G Enabled Autonomous Robot Market

6.1.3 5G Enabled Autonomous Robot Market by Categories

6.2 Regional Market Revenue

6.2.1 5G Enabled Autonomous Robot by Region

6.2.2 North America 5G Enabled Autonomous Robot Market by Categories

6.2.3 Europe 5G Enabled Autonomous Robot Market by Categories

6.2.4 APAC 5G Enabled Autonomous Robot Market by Categories

7 CONCLUSIONS AND RECOMMENDATIONS

Figures

FIGURES

- Figure 1: 5G Development and Roadmap
- Figure 2: 5G Mobile Service Scenario
- Figure 3: Six-axis Welding Robot
- Figure 4: Automatic Vacuuming Consumer Device Roomba
- Figure 5: Autonomous Soccer Robots
- Figure 6: 5G Mobile Services, Robots, and Network Requirements
- Figure 7: 5G Enabled IoT Healthcare Service
- Figure 8: 5G Enabled Mobile Cloud Robotics Scenario
- Figure 9: EU Funding in Robotics PPP and Other Objectives
- Figure 10: Robot Based Remote Surgery Service
- Figure 11: Robots Assembling in Auto Manufacturing Plant
- Figure 12: Mobile Robot Driven Autonomous Car
- Figure 13: High Fidelity Robotics Simulation in Smart Parking System
- Figure 14: Robots Palletizing Food Products in Bakery
- Figure 15: Robotics Enabled Machine Harvesting
- Figure 16: 5G Enabled Private Security and Public Safety Services
- Figure 17: Four Wheeler Autonomous Pizza Delivery Robots
- Figure 18: 5G and Robot Enabled Smart Transportation Services
- Figure 19: 5G Based Military Drone Operating Remotely
- Figure 20: Combat Robot on Ground
- Figure 21: Asus Zenbo Robot
- Figure 22: Samsung Robotics Arm
- Figure 23: Mobile Cloud Robotics Shuttling Materials
- Figure 24: Nokia NRS -15 Welding Robot
- Figure 25: Honda Robotics Products
- Figure 26: Cobra SCARA, Parallel and Viper Six-Axis Robots
- Figure 27: Automated Milking Robots
- Figure 28: The Less Skynet-Y Robot
- Figure 29: Advanced Explosive Ordnance Disposal Robotics System
- Figure 30: ABB Robotics Product Feature and Robot Calculator
- Figure 31: Yaskawa Robotics Product Line
- Figure 32: Kiva Robots in Amazon Warehouse
- Figure 33: 3D Robotics Solo Drone
- Figure 34: Pepper Robot Taking MasterCard Payment
- Figure 35: Global Autonomous Robot Market 2018 - 2030

Figure 36: Global 5G Enabled Autonomous Robot Market 2022 - 2030

Figure 37: Global 5G Enabled Autonomous Robot Market by Category 2022 - 2030

Figure 38: 5G Enabled Autonomous Robot Market by Region 2022 - 2030

Figure 39: North America 5G Enabled Autonomous Robot Market by Category 2022 - 2030

Figure 40: Europe 5G Enabled Autonomous Robot Market by Category 2022 - 2030

Figure 41: APAC 5G Enabled Autonomous Robot Market by Category 2022 - 2030

I would like to order

Product name: 5G and Robotics: Emerging Technologies, Solutions, Market Outlook and Forecasts

Product link: <https://marketpublishers.com/r/5951F05FCD8EN.html>

Price: US\$ 995.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/5951F05FCD8EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970