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Industry 4.0 Convergence: Industrial Internet, Streaming IoT Analytics, and 3D Printing 2017 - 2022

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Abstracts

Industrial IoT is part of a broader trend towards the transformation of industry as part of a Industry 4.0. Initially focusing on improving existing processes and augmented current infrastructure, IIoT will evolve to encompass next generation methods and procedures such as 'teleoperation' (operation of a machine at a distance), tele-robotics, and other areas that rely upon interface and control of real objects by virtual objects. This research evaluates IIoT technologies, companies, applications, services, and solutions. Forecasts include overall global and regional IIoT outlook as well as IIoT by industry vertical, software, hardware, and services for the period 2017 to 2022.

Manufacturing processes produce vast amounts of machine-generated data, most of which is unstructured and from disparate sources and formats. Accordingly, there is a need for uniform data management processes and use of Big Data Analytics tools and techniques. While much of this data will be very useful for longer-term analytics, significant value will be realized from real-time processing such as centralized versus distributed manufacturing decisions. This research evaluates the technologies, companies, and solutions for real-time IoT data processing and analytics. The report assesses challenges and opportunities associated with realizing business value from real-time analytics. The report provides detailed forecasts globally, regionally, and across industry verticals and solution categories for 2017 to 2022.

3D Printing is transformative beyond the printing industry itself as it is poised to cause a huge shift in manufacturing, especially when coupled with Artificial Intelligence and advancements in IIoT. Every person in the developed world will be positively impacted by 3D printed products thanks to fully integrated, flexible, and distributed manufacturing. This research examines the 3D market from multiple facets including hardware manufacturers, service providers, application providers, software providers, raw material

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providers, and communities. The report also assesses the market impact and provides forecasts across all verticals globally and regionally for 2017 to 2022.

Target Audience:

Manufacturing companies

Embedded systems companies

Wireless device manufacturers

Systems integration companies

IoT and industrial service providers

Telecom and IT infrastructure suppliers

Data management and analytics companies

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Contents

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6 COMPANY ANALYSIS

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List Of Figures

LIST OF FIGURES

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List Of Tables

LIST OF TABLES

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4 VENDOR ANALYSIS

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5 STREAMING IOT DATA ANALYTICS REVENUE 2017 – 2022

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Figures

Tables

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3D PRINTING MARKET OUTLOOK AND FORECASTS 2017 - 2022

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2 3D PRINTING MARKET ANALYSIS AND FORECASTS 2017 TO 2022

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3 3D PRINTING ECOSYSTEM AND VENDOR ANALYSIS

4 MARKET DIRECTION AND FUTURE OF 3D PRINTING

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