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Asia Pacific Simultaneous Localization and Mapping Market Forecast to 2031 - Regional Analysis - by Offerings (2D SLAM and 3D SLAM), System Type (Camera Based and LiDAR Based), and Application (Robotics, UAV, AR or VR, Automotive, RTLS, and Others)

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Abstracts

The Asia Pacific simultaneous localization and mapping market was valued at US$ 129.24 million in 2023 and is expected to reach US$ 1,808.15 million by 2031; it is estimated to register a CAGR of 39.1% from 2023 to 2031.

Integrating SLAM Technology in Metaverse Augmented Reality Boosts Asia Pacific Simultaneous Localization and Mapping Market

AR offers a diverse array of experiences, each with distinctive features and applications, contributing to its increasing versatility and popularity. Metaverse augmented reality primarily refers to the integration of AR technology within the framework of the metaverse. The metaverse is a combined virtual shared space that brings together the aspects of online gaming, virtual reality, social media, augmented reality, and other immersive technologies. The metaverse concept is an interconnected digital universe where individuals can relate with each other and with digital objects in real time.

Metaverse AR undertakes the capacities of conventional AR and expands them into the virtual world of the metaverse. It acts as a connection between the physical and digital realms, allowing users to experience AR not only in their immediate physical environment but also within the virtual spaces of the metaverse. Leveraging technologies such as SLAM and GPS, AR encompasses virtual content to the real

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world, allowing continuous interaction with digital elements. SLAM is beneficial in navigation apps, interior design, and industrial applications, enabling the overlay of virtual information onto the real-world environment without specific markers. The concepts of AR and the metaverse are rapidly gaining global interest as the future of technology. In 2022, Epic Games received US$ 2 billion in funding from Sony and KIRKBI to advance Epic's metaverse expansion plans. In 2022, Autodesk, Inc. acquired The Wild, a cloud-connected, extended reality (XR) platform, which includes its namesake solutions, The Wild and IrisVR. Through the acquisition, Autodesk aims to meet the strengthening demand for AR and virtual reality (VR) technology advancements globally. In May 2024, Magic Leap signed a multi-faceted, strategic technology partnership with Google to bring a wider range of immersive AR/VR experiences to its end users. The developing SLAM technology and its increasing application in AR, VR, and the metaverse are offering positive opportunities in the market.

Asia Pacific Simultaneous Localization and Mapping Market Overview

The Asia Pacific simultaneous localization and mapping market growth is attributed to technology innovation and strategic collaborations. With a strong focus on advancing air mobility, satellite launches, industrial automation, and robotics in Asia Pacific countries, including China, India, Australia, and Japan, have emerged as key players in the simultaneous localization and mapping market. Major industry contributors include leading aerospace and space companies such as Neumann; Space Machines Company; Beijing Spacecraft Manufacturing Co., Ltd; China Aerospace Science; Technology Corporation; and Kongtian Dongli. These companies are renowned for their initiatives in the space technology sector.

The increasing modernization projects, including Singapore Changi, Beijing Capital International, and Incheon International, are fueling the overall construction sector. Countries such as Indonesia and Thailand are also investing in domestic infrastructural development with more focus on regional airports to improve connectivity. A total of 155 projects out of 425 airport and airport infrastructure development projects across the globe are under development in Asia Pacific with an investment of US$ 209 billion. With an investment of US$ 14.5 billion, Long Thanh International Airport in Vietnam is one of the largest airport development projects in Asia Pacific; it is expected to be completed by 2025. In addition, the expansion of Terminal 5 at Changi Airport, Singapore, is a project worth US$ 10 billion and is expected to be completed by 2030. The growing technological advancement in the construction sector is projected to drive the application of simultaneous localization and mapping technology in Asia Pacific.

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Asia Pacific Simultaneous Localization and Mapping Market Revenue and Forecast to 2031 (US$ Million)

Asia Pacific Simultaneous Localization and Mapping Market Segmentation

The Asia Pacific simultaneous localization and mapping market is categorized into offerings, system type, application, and country.

By offerings, the Asia Pacific simultaneous localization and mapping market is divided into 2D SLAM and 3D SLAM. The 2D SLAM segment held a larger share of the Asia Pacific simultaneous localization and mapping market share in 2023.

In terms of system type, the Asia Pacific simultaneous localization and mapping market is bifurcated into camera based and LiDAR based. The camera based segment held a larger share of the Asia Pacific simultaneous localization and mapping market share in 2023.

Based on application, the Asia Pacific simultaneous localization and mapping market is segmented into robotics, UAV, AR or VR, automotive, RTLS, and others. The robotics segment held the largest share of the Asia Pacific simultaneous localization and mapping market share in 2023.

Based on country, the Asia Pacific simultaneous localization and mapping market is segmented into China, Japan, South Korea, India, Australia, and the Rest of Asia Pacific. China segment held the largest share of Asia Pacific simultaneous localization and mapping market in 2023.

ANAVS GmbH; Applanix; Exyn Technologies Inc; FARO Technologies Inc; Kudan Inc; Kuka AG; Leica Geosystems AG; Leishen Intelligent System Co., Ltd; MAXST Co Ltd; NavVis GmbH; Nexxis; Rethink Robotics GmbH; Sevensense Robotics AG; Slamcore Ltd; and Visimind AB are among the leading companies operating in the Asia Pacific simultaneous localization and mapping market.

Reason to buy

- Save and reduce time carrying out entry-level research by identifying the growth, size, leading players, and segments in the Asia Pacific simultaneous localization and mapping market.

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Highlights key business priorities to assist companies to realign their business strategies.

The key findings and recommendations highlight crucial progressive industry trends in Asia Pacific simultaneous localization and mapping market, thereby allowing players across the value chain to develop effective long-term strategies.

Develop/modify business expansion plans by using substantial growth offering developed and emerging markets.

Scrutinize in-depth Asia Pacific market trends and outlook coupled with the factors driving Asia Pacific simultaneous localization and mapping market, as well as those hindering it.

Enhance the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing, and distribution.

The List of Companies - Asia Pacific Simultaneous Localization and Mapping Market

ANAVS GmbH

Applanix

Exyn Technologies Inc

FARO Technologies Inc

Kudan Inc

Kuka AG

Leica Geosystems AG

Leishen Intelligent System Co., Ltd

MAXST Co Ltd

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