

3D Laser Mapping Arms Robots with Laser Vision



3D Laser Mapping (UK) is helping pioneer research into intelligent field mapping robots. The firm's laser scanning technology can create highly detailed 3D visualisations of the surroundings so that robots can make intelligent decisions in virtual real time. As a result of a partnership with Reutech Radar Systems, 3D Laser Mapping has supplied the advanced laser scanning system to the Council for Scientific and Industrial Research (CSIR) in South Africa, one of the world's leading research, development and implementation organisations. The system will assist the CSIR with research into intelligent field robotics for studies relating to perception, mobility and navigation.

The Mobile Intelligent Autonomous Systems (MIAS) research area is part of the Modelling and Digital Science unit of the CSIR. Dedicated to research relevant to intelligent field robotics, such as perception, reasoning, teleoperation, reality augmentation, mobility and navigation, this research domain focuses on the ability to position an object in 3D space through the real time mapping of the immediate environment and then interacting with the environment to perform useful tasks.

The laser scanning system, purchased from and supported by 3D Laser Mapping's distributor in Southern Africa, Reutech Radar Systems, includes an LMS-Z390i laser scanner. Providing an unrivalled combination of wide field of view, accuracy of measurements and speed of data capture the scanning unit is specifically designed for the rapid acquisition of high quality three-dimensional images. The 3D Laser Mapping system also comprised data processing software and an integrated high definition digital camera.

<https://www.gim-international.com/content/news/3d-laser-mapping-arms-robots-with-laser-vision>
