3D sensor gives robots better vision 12.09.2013

Please note this website requires cookies in order to function correctly, they do not store any specific information about you personally. More Info I Agree < 11 > Search Eureka Website atest: Additive manufacturing: What's in it for me? HEIDENHAIN The measure of excellence Products ▼ Advertise Fureka ▼ News Features ▼ Videos Channels ▼ Suppliers Magazine **▼** lobs Subscribe to protomold FREE monthly Over 200,000 Automation and Control products from the Share 0 in Share 0 Share New I 2010 world's leading manufacturers elivered to your door next day 3D sensor gives robots better vision ABB DESTRUCTION A project to develop robots for Schneider SIEMENS SMC. sophisticated applications has been enhanced by a new 3d sensor which enables them to observe their environment in a more natural and Related News human like manner. Solar cell breakthrough The TACO project is being run by independent research organisation SINTEF Group and seeks BAE works with Team GB to apply robots in the fields of cleaning, construction, maintenance, security, health care, Leave a Comment 3D graphene breakthrough entertainment and personal assistance. TACO employs 3D foveation which enables the systems to acquire 3d images with coarse level of details and apply fast object detection techniques to select areas of interest in the coarse 3d image. It can then concentrate image acquisition of regions or details of interest. According to the development team, the robot will become able to focus on the most relevant object and scan and monitor it closely and detailed, Related Features similar to the human eve. Image sensors find space Jens Thielemann, (pictured) TACO's technical lead, says that the TACO sensor will enable 'significantly better, faster and cheaper 3d sensing' compared to current laser scanners. Thielemann said: "Through the foveation process, the sensor will provide 10 times better Energy harvesting resolution than existing sensors with hardware enabling a 10 times size resolution. One of the most important project deliveries will be an easily accessible report comparing the TACO sensor to existing 3d sensors, making the TACO advantage clear to the European robotics community." Sensor offers stop-start solut The main goal of TACO is to develop a flexible, compact, robust and low cost 3d sensing system that includes three major parts - a novel concept for fast attention level management; a 3d laser scanner sensor and a software framework According to Thielemann, the project aims to advance the European robotics industry by Related Videos addressing the strategic challenges of 3d sensing and producing innovative technologies. Autodesk optical finger input Author Chris Shaw Graphene and the carbon revolution This material is protected by Findlay Media copyright See Terms and Conditions. The Large Hadron Collider - how it works One-off usage is permitted but bulk copying is not. For multiple copies contact the sales team. Related Blogs Supporting Information Richard Noble's Bloodhound Project diary Andy Green's Bloodhound Project diary Related Website Richard Noble's Bloodhound Project diary http://www.sintef.com Comments Email Comments

3D sensor gives robots better vision 12.09.2013

Your comments/feedback may be edited prior to publishing. Not all entries will be published.
Please view our Terms and Conditions before leaving a comment.

Post Comment

EUREKA

© Copyright Findlay Media Ltd 2012

Content

News Products Features Technology IP Advice Coffee Time Challenge Videos Events

Categories

Control and Automation
Design Software
Fastening and Joining
Materials
Power Systems
Rapid Prototyping
Sensors Test and Measurement
Industry Sectors

Information

About Eureka
Contact Us
Advertise
Terms and Conditions
Privacy Policy
Cookie Policy
Jobs
RSS

Social Media

Interviews Blogs Get the Eureka Newsletter Twitter LinkedIn Submit a Question