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Ellery A. (2016) Case study: Robotic exploration of Europa. In: Planetary Rovers. Springer Praxis Books. Springer, Berlin, Heidelberg. https://doi.org/10.1007/978-3-642-03259-2_13. First Online 31 December 2015; DOI https://doi.org/10.1007/978-3-642-03259-2_13; Publisher Name Springer, Berlin, Heidelberg; Print ISBN 978-3-642-03258-5; Online ISBN 978-3-642-03259-2

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Case Study on Robotics. A robot can be defined as a machine that can be programmed and re-programmed to do complex tasks, work according to the need of the hour or even at times replicate humans in looks but mostly priority is given to the work they need to do instead of how they look. These could be programmed externally or could be made intelligent enough to make their own decisions based on data fed by machine learning or artificially intelligent neural networks.

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Planetary Rovers - Robotic Exploration of the Solar System ...

FIELD TESTED SERVICE ORIENTED ROBOTIC ARCHITECTURE: CASE STUDY. Lorenzo Fluckiger and Hans Utz¹ Carnegie Mellon University, NASA Ames Research Center, Mail Stop 269-3, Moffett Field, CA-94035, USA. fLorenzo.Fluckiger,Hans.Utz@nasa.gov ABSTRACT This paper presents the lessons learned from six years of experiments with planetary rover prototypes running the Service Oriented Robotic Architecture (SORA) devel- oped by the Intelligent Robotics Group (IRG) at NASA Ames Research Center.

FIELD TESTED SERVICE ORIENTED ROBOTIC ARCHITECTURE: CASE STUDY

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Project overview We have developed state of the art robotic systems to explore the Great Pyramid of Giza, Egypt. Our robots have the capability of climbing 70m within a confined space of 20cm by 20cm whilst deploying snake cameras and drills.

Djedi robot | Archaeological expedition : Robotics at Leeds

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Exploration Robotics is all about sending mobile robots into natural or artificial environments where people can't go (or don't want to go) in order to gather valuable sensory data and, sometimes, perform physical tasks. Some of the diverse scenarios and applications in which exploration robotics have the potential to make a significant impact include: Defence and Security; Search and Rescue; Archaeology; Environmental Monitoring; Nuclear decommissioning; Space Exploration; Oil and Gas ...

Exploration Robotics : Robotics at Leeds

For example a robot can be designed specially to refuel a shuttle thus helping the astronaut to remain in his shuttle and accomplish various tasks without any risk to their lives Mineralogy Robots: | Presently humans are facing a huge challenge of exhaustion minerals due to which space exploration is being used specifically for mineralogical purposes | It allows the robot to detect rocks ...

Space Robotics - SlideShare

the approach is demonstrated in both simulation case studies and laboratory experiments. 1. INTRODUCTION This research investigates the robotic tactile exploration of unknown environments under very harsh conditions. Such tasks are found in the robotic exploration and mapping of pipes, mines, sewers, and nuclear facilities.

THE TACTILE EXPLORATION OF A HARSH ENVIRONMENT BY A ...

Our chosen case study is a robot teddy bear, inspired by one of my favourite movie robots: Teddy, in A. I. Artificial Intelligence. Although Ethical Risk Assessment (ERA) is not new | it is after all what research ethics committees do | the idea of extending traditional risk assessment, as practised by safety engineers, to cover ethical risks is new.

RoboTED: a case study in Ethical Risk Assessment | Robohub

understanding the developing scenarios of the Case Study. First, we describe a description of the current MER mission work system that is the result of three years of design and lengthy training that was used to accomplish the tele-robotic exploration of Mars. This description is followed by a brief review of related

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Isolation studies in Antarctica 1502views3likes ESA/ Science & Exploration/ Human and Robotic Exploration/ Exploration In a secluded part of Antarctica | which is already devoid of much life | lies a small research station called Concordia.

ESA - Isolation studies in Antarctica

Robotic Laser Weld Fabrication system. Client: Global Engineering Company Part: Engineering Metal Seal Ring Machine supplied: Robotic laser weld fabrication system Overview: This system was designed and manufactured in order to give the customer the ability to automatically produce parts that were previously labour intensive within their production environment.

Case Study - Robotic Laser Weld Fabrication System

Based on a Service Oriented Architecture and robust middleware, SORA extends its reach beyond the on-board robot controller and supports the full suite of software tools used during mission scenarios from ground control to remote robotic sites. SORA has been field tested in numerous scenarios of robotic lunar and planetary exploration.