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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 Utz² Carnegie Mellon University, NASA Ames Research Center, Mail Stop 269-3, Moffett Field, CA-94035, USA. fLorenzo.Fluckiger,Hans.Utzg@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 ...

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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.

This will be the only book on planetary rover development covering all aspects relevant to the design of systems

This fascinating book is a must-have text for space enthusiasts with an engineering bent. It is a detailed history of unmanned missions that have explored our solar system. The subject is treated wherever possible from an engineering and scientific standpoint and includes technical descriptions of the spacecraft, their mission designs and their instrumentations. Scientific results are discussed in depth, together with details of mission management. The book is fantastically comprehensive, covering missions and results from the 1950s right up to the present day. Some of the latest missions and their results appear in a popular science book for the first time.

Multi-robot Exploration for Environmental Monitoring: The Resource Constrained Perspective provides readers with the necessary robotics and mathematical tools required to realize the correct architecture. The architecture discussed in the book is not confined to environment monitoring, but can also be extended to search-and-rescue, border patrolling, crowd management and related applications. Several law enforcement agencies have already started to deploy UAVs, but instead of using teleoperated UAVs this book proposes methods to fully automate surveillance missions. Similarly, several government agencies like the US-EPA can benefit from this book by automating the process. Several challenges when deploying such models in real missions are addressed and solved, thus laying stepping stones towards realizing the architecture proposed. This book will be a great resource for graduate students in Computer Science, Computer Engineering, Robotics, Machine Learning and Mechatronics. Analyzes the constant conflict between machine learning models and robot resources Presents a novel range estimation framework tested on real robots (custom built and commercially available)

A mission to send humans to explore the surface of Mars has been the ultimate goal of planetary exploration since the 1950s, when von Braun conjectured a flotilla of 10 interplanetary vessels carrying a crew of at least 70 humans. Since then, more than 1,000 studies were carried out on human missions to Mars, but after 60 years of study, we remain in the early planning stages. The second edition of this book now includes an annotated history of Mars mission studies, with quantitative data wherever possible. Retained from the first edition, Donald Rapp looks at human missions to Mars from an engineering perspective. He divides the mission into a number of stages: Earth's surface to low-Earth orbit (LEO); departing from LEO toward Mars; Mars orbit insertion and entry, descent and landing; ascent from Mars; trans-Earth injection from Mars orbit and Earth return. For each segment, he analyzes requirements for candidate technologies. In this connection, he discusses the status and potential of a wide range of elements critical to a human Mars mission, including life support consumables, radiation effects and shielding, microgravity effects, abort options and mission safety, possible habitats on the Martian surface and aero-assisted orbit entry decent and landing. For any human mission to the Red Planet the possible utilization of any resources indigenous to Mars would be of great value and such possibilities, the use of indigenous resources is discussed at length. He also discusses the relationship of lunar exploratio n to Mars exploration. Detailed appendices describe the availability of solar energy on the Moon and Mars, and the potential for utilizing indigenous water on Mars. The second edition provides extensive updating and additions to the first edition, including many new figures and tables, and more than 70 new references, as of 2015.

ÔThe recent renaissance in the use of prizes to spur innovation and extraordinary novel performance warrants close attention. Luciano Kay does so through a series of compelling case studies which shows the potential of prizes, the range of factors that influence their performance and the importance of understanding their non-pecuniary dimensions, even when there is a substantial purse. This is an important contribution to the innovation literature.Ô Ð David J. Teece, University of California, Berkeley, US ÔIn the last decade innovation prizes have caught the imagination of policy makers and rich donors alike; those who actually care about the process and outcome of prizes and not only the hype, would do well to read LucianoÔs new book.Ô Ð Dan (Danny) Breznitz, Georgia Institute of Technology, US Inducement prizes Ð in which cash rewards are offered to motivate the attainment of specific targets Ð have long been used to stimulate scientific discovery and technology research and development. This volume presents an empirical investigation of the effect of these prizes on innovation. In this in-depth study, Luciano Kay focuses on three recent cases of prize competitions in the aerospace industry: the Google Lunar X Prize, the Ansari X Prize and the Northrop Grumman Lunar Lander Challenge. Using a combination of real-time and historical analysis based on personal interviews, workplace visits and questionnaire and document data analysis, the author examines the particular dynamics of the prize phenomenon and offers a comprehensive discussion of the potential of prizes to induce innovation. This fascinating volume also sets out a systematic method to studying prize incentives, offering a concrete innovation model and case study design approach that will prove highly useful to further research efforts in the field. Scholars, policymakers and corporate officials interested in incentives for innovation and the practical implementation of prize competitions will find this an invaluable resource. Potential prize sponsors and entrepreneurs, professionals and other individuals or organizations interested in participating in such competitions will also find much of interest in this groundbreaking book.

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