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DEVELOPMENTS AND CHALLENGES FOR AUTONOMOUS ...

DEVELOPMENTS AND CHALLENGES FOR AUTONOMOUS UNMANNED VEHICLES ANTHONY FINN1 STEVE SCHEDING2 1Defence Science & Technology Organisation Department of Defence, Edinburgh, SA 5111, Australia

Autonomous Systems - NATO

The Opportunity and Challenge of Autonomous Systems Paul Scharre Chapter 2 27 Defining Autonomy in Systems: Challenges and Solutions Andrew Williams PART 2: ETHICAL, LEGAL, AND POLICY PERSPECTIVES Chapter 3 65 Developing Autonomous Systems in an Ethical Manner Chris Mayer Chapter 4 83 The Legal Implications of the Use of Systems with Autonomous

Maritime Autonomous Surface Ships Development Challenges ...

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VOLUME 4, NUMBER 2, 2010 Requirements for Autonomous ...

requirements for more autonomous UAS The method should ensure that technology developments to raise autonomy levels will have acceptable methods of use It shows that fully autonomous weaponized systems may never be acceptable The LOAC are used as capability requirements Engineering requirements for autonomous UAS are derived from them

Regulating Autonomous Ships—Concepts, Challenges and ...

Regulating Autonomous Ships—Concepts, Challenges and Precedents Henrik Ringbom Scandinavian Institute of Maritime Law, University of Oslo, Oslo, Norway ABSTRACT The article seeks to contribute to the development of a conceptual framework for the ongoing regulatory discussions on autonomous ships at the International Maritime Organization (IMO)

Maritime Autonomous Surface Ships—Development Trends ...

Jan 09, 2020 · Autonomous ships are said to contribute to improving the safety and efficiency of maritime transportation, the Tourism, "Challenges and Direction of Initiatives for Autonomous Ships" (December 2017) AL4 developments and needs Based on various roadmaps announced by the Japanese government and industry,

New Technology & Innovation

Autonomous Mining Equipment May 2019 3 Executive Summary Innovation and New Technology This is the second report by RFC Ambrian in our series of reports on innovation and developments in sensors and detection - particularly and higher health and safety risks due to geotechnical and environmental challenges

Planning for connected autonomous vehicles

developments There are challenges arising from divergent views and values between stakeholders, technical, social and economic uncertainty, lack of evidence, and complex interrelations with wider developments To help our clients in considering and addressing these challenges, we have crowdsourced the key problems and questions

Unmanned surface vehicles: An overview of developments ...

used rather than fully-autonomous USVs, owing to numerous challenges facing by the latter, such as limited autonomy due to Recent developments are listed in Table 3,

Autonomous Vehicle Implementation Predictions

Autonomous Vehicle Implementation Predictions: Implications for Transport Planning Victoria Transport Policy Institute 3 Executive Summary Many decision-makers and practitioners wonder how autonomous (also called self-driving or robotic) vehicles (AVs) will affect future travel, and therefore the need for roads, parking facilities and public transit services, and what public ...

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Figure 2 Main challenges of the automated vehicles The main objectives of this work are all aimed at pointing out the current stage of autonomous vehicle's development and identifying the most important challenges in this field 2 Environmental and traffic safety benefits

Autonomous Unmanned Ground Vehicle and Indirect Driving

Autonomous Unmanned Ground Vehicle and Indirect Driving ABSTRACT This paper describes the design and challenges faced in the development of an Autonomous Unmanned Ground Vehicle (AUGV) demonstrator and an Indirect Driving Testbed (IDT) The AUGV has been modified from an M113 Armoured Personnel Carrier and has capabilities such as remote control,

Siemens PLM Software Model-based systems engineering for ...

Model-based systems engineering for autonomous vehicle development Siemens PLM Software 3 Challenges in autonomous vehicle development The rapid development and convergence of technologies that enable self-driving automobiles present many new challenges for industry players Chief among these are: Trust and confidence

The Marine Transportation System, Autonomous Technology ...

developments • workforce competence because personnel must be capable of handling both advanced and legacy technologies, as well as partially autonomous sys- and nontechnological solutions to challenges posed by autonomous systems • For the long term (ten to twenty years), the Coast

Developments in Artificial Intelligence and Opportunities ...

challenges and these must be monitored and addressed as necessary 10 CONTEXT Artificial Intelligence or AI is a technology or concept that has developed over many decades and periodically becomes mainstream news In the latter half of the 2010s this is still very much the case with Developments in AI and autonomous systems

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A review of the autonomous vehicle developments in the industry shows that there is neither a clear consensus on the technological pathway, nor an agreement on a definitive solution to achieve full autonomy The thesis evaluates the maturity of the technology enablers for autonomous driving capabilities using the Technology Readiness Level

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democracy Based on the developments in the Netherlands, we present some challenges that the mediating role of online voting technology offers to existing concepts in democracy, and evaluate the benefits for social inclusion of reconstructing these concepts with respect to the new possibilities 1

INTRODUCTION