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# Culture and Human-Robot Interaction in Militarized Spaces

## A War Story

## JULIE CARPENTER

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**Dr Julie Carpenter**

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**Culture and Human-Robot Interaction in Militarized Spaces** Dr Julie Carpenter,2016-01-28 Explosive Ordnance Disposal EOD personnel are some of the most highly trained people in the military with a job description that spans defusing unexploded ordnance to protecting VIP s and state dignitaries EOD are also one of the first military groups to work with robots every day These robots have become an increasingly important tool in EOD work enabling people to work at safer distances in many dangerous situations Based on exploratory research investigating interactions between EOD personnel and the robots they use this study richly describes the nuances of these reciprocal influences especially those related to operator emotion associated with the robots In particular this book examines the activities processes and contexts that influence or constrain everyday EOD human robot interactions what human factors are shaping the robotic technology and how people and culture are being changed by using it The findings from this research have implications for future personnel training and the refinement of robot design considerations for many fields that rely on critical small group communication and decision making skills **Culture and Human-robot Interaction in Militarized Spaces** Julie Carpenter,2015 *Fighting Machines* Dan Saxon,2021-12-03 Lethal autonomous weapons are weapon systems that can select and destroy targets without intervention by a human operator Fighting Machines explores the relationship between lethal autonomous weapons LAWS the concept of human dignity and international law Much of this analysis speaks to three fundamental and related problems When a LAWS takes a human life is that killing a violation of human dignity Can states and non state actors use LAWS in accordance with international law And are there certain responsibilities of human decision making during wartime that we should not delegate to machines In the book Dan Saxon argues that the use of LAWS to take human life constitutes a violation of human dignity Rather than concentrating on the victims of the use of lethal force Saxon instead focuses on the technology and relevant legal principles and rules to advance several propositions First as LAWS operate at increasingly greater speeds their use will undermine the opportunities for and the value of human reasoning and judgment Second by transferring responsibility for reasoning and judgment about the use of lethal force to computer software the use of LAWS violates the dignity of the soldiers commanders and law enforcement officers who historically have made such decisions and therefore breaches international law Third weapon designs that facilitate teamwork between humans and autonomous systems are necessary to ensure that humans and LAWS can operate interdependently so that individuals can fulfil their obligations under international law including the preservation of their own dignity and ensure that human reasoning and judgment are available for cognitive functions better suited to humans than machines Fighting Machines speaks to the fields of international humanitarian law human rights criminal law and legal philosophy It will also be of interest to non lawyers especially military officers government policy makers political scientists and international relations scholars as well as roboticists and ethicists Respawn Colin Milburn,2018-12-14 Colin Milburn examines the relationships between video

games hackers and science fiction showing how games provide models of social and political engagement critique and resistance while offering a vital space for players and hacktivists to challenge centralized power and experiment with alternative futures   **Popular Mechanics** ,2000-01 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle   **Human-Robot Interactions in Future Military Operations** Florian Jentsch,2016-05-23 Soldier robot teams will be an important component of future battle spaces creating a complex but potentially more survivable and effective combat force The complexity of the battlefield of the future presents its own problems The variety of robotic systems and the almost infinite number of possible military missions create a dilemma for researchers who wish to predict human robot interactions HRI performance in future environments Human Robot Interactions in Future Military Operations provides an opportunity for scientists investigating military issues related to HRI to present their results cohesively within a single volume The issues range from operators interacting with small ground robots and aerial vehicles to supervising large near autonomous vehicles capable of intelligent battlefield behaviors The ability of the human to team with intelligent unmanned systems in such environments is the focus of the volume As such chapters are written by recognized leaders within their disciplines and they discuss their research in the context of a broad based approach Therefore the book allows researchers from differing disciplines to be brought up to date on both theoretical and methodological issues surrounding human robot interaction in military environments The overall objective of this volume is to illuminate the challenges and potential solutions for military HRI through discussion of the many approaches that have been utilized in order to converge on a better understanding of this relatively complex concept It should be noted that many of these issues will generalize to civilian applications as robotic technology matures An important outcome is the focus on developing general human robot teaming principles and guidelines to help both the human factors design and training community develop a better understanding of this nascent but revolutionary technology Much of the research within the book is based on the Human Research and Engineering Directorate HRED U S Army Research Laboratory ARL 5 year Army Technology Objective ATO research program The program addressed HRI and teaming for both aerial and ground robotic assets in conjunction with the U S Army Tank and Automotive Research and Development Center TARDEC and the Aviation and Missile Development Center AMRDEC The purpose of the program was to understand HRI issues in order to develop and evaluate technologies to improve HRI battlefield performance for Future Combat Systems FCS The work within this volume goes beyond the research results to encapsulate the ATO s findings and discuss them in a broader context in order to understand both their military and civilian implications For this reason scientists conducting related research have contributed additional chapters to widen the scope of the original research boundaries   **Interfaces for Ground and Air Military Robots** National Research Council,Division of Behavioral and Social Sciences and

Education,Board on Behavioral, Cognitive, and Sensory Sciences,Committee on Human Factors,Planning Committee for the Workshop on Scalable Interfaces for Air and Ground Military Robots,2005-03-21 In the early years of robotics and automated vehicles the fight was against nature and not against a manifestly intelligent opponent In military environments however where prediction and anticipation are complicated by the existence of an intelligent adversary it is essential to retain human operators in the control loop Future combat systems will require operators to control and monitor aerial and ground robotic systems and to act as part of larger teams coordinating diverse robotic systems over multiple echelons The National Research Council organized a workshop to identify the most important human related research and design issues from both the engineering and human factors perspectives and develop a list of fruitful research directions Interfaces for Ground and Air Military Robots summarizes the presentations and discussions from this workshop **Recognition of Humans Or Objects in Robot Working Space for Safe Human-robot Interaction Using Multiple Sensors and Video Camera** Rahul Kulkarni,2007 *Soldiers and Robots* Alan M. Grewal,Nicholas J. Chaudhry,2011 Reports originally issued by the Army Research Laboratory *Towards Improving Human-robot Interaction for Social Robots* Saad Ahmad Khan,2015 Autonomous robots interacting with humans in a social setting must consider the social cultural environment when pursuing their objectives Thus the social robot must perceive and understand the social cultural environment in order to be able to explain and predict the actions of its human interaction partners This dissertation contributes to the emerging field of human robot interaction for social robots in the following ways 1 We used the social calculus technique based on culture sanctioned social metrics CSSMs to quantify analyze and predict the behavior of the robot human soldiers and the public perception in the Market Patrol peacekeeping scenario 2 We validated the results of the Market Patrol scenario by comparing the predicted values with the judgment of a large group of human observers cognizant of the modeled culture 3 We modeled the movement of a socially aware mobile robot in a dense crowds using the concept of a micro conflict to represent the challenge of giving or not giving way to pedestrians 4 We developed an approach for the robot behavior in micro conflicts based on the psychological observation that human opponents will use a consistent strategy For this the mobile robot classifies the opponent strategy reflected by the personality and social status of the person and chooses an appropriate counter strategy that takes into account the urgency of the robots mission 5 We developed an alternative approach for the resolution of micro conflicts based on the imitation of the behavior of the human agent This approach aims to make the behavior of an autonomous robot closely resemble that of a remotely operated one **Reasoning about Space for Human-robot Interaction** Luis Felipe Marín Urías,2009 Human Robot Interaction is a research area that is growing exponentially in last years This fact brings new challenges to the robot s geometric reasoning and space sharing abilities The robot should not only reason on its own capacities but also consider the actual situation by looking from human s eyes thus putting itself into human s perspective In humans the visual perspective taking ability begins to appear by 24 months of age and is used to

determine if another person can see an object or not The implementation of this kind of social abilities will improve the robot s cognitive capabilities and will help the robot to perform a better interaction with human beings In this work we present a geometric spatial reasoning mechanism that employs psychological concepts of perspective taking and mental rotation in two general frameworks Motion planning for human robot interaction where the robot uses egocentric perspective taking to evaluate several configurations where the robot is able to perform different tasks of interaction A face to face human robot interaction where the robot uses perspective taking of the human as a geometric tool to understand the human attention and intention in order to perform cooperative tasks

**A Machiavellian Robot in the Wild, Exploiting the Culture of Passersby to Gain More Help** Elaheh Sanoubari,2018 Robots are entering public spaces where they use social techniques to interact with people Robots can nowadays be found in public spaces such as airports shopping malls museums or hospitals where they interact with the general public As these social entities are sharing people s personal spaces and influencing their perceptions and actions we must consider how they interact with people The impact of robot s interaction on a person is mediated by many factors including personal difference and interaction context Young et al 2011 For both of these factors the cultural background of the person is a particularly important component Culture is deeply intertwined with all aspects of our social behaviors and impacts how we perceive our day to day interactions As such social robots can use culturally appropriate language to improve how they are perceived by human users Wang et al 2010 In this work we investigated if a robot can use social techniques to adapt to people to get more help from More specifically we investigated if a robot can do so by exploiting knowledge of a person s culture We conducted an in the wild experiment to investigate whether a robot adapting to a passerby culture would affect how much help it can get from them The results of this study indicate that there is a significant increase in duration of their help in cases where the robot adapts to match their culture than when it mismatches The results of this experiment contribute to the design techniques of adaptive social ro bots by showing that it is possible for an agent to influence users actions by adapting to them However as this adaptation can happen without a person s explicit knowledge it is ethically questionable By providing this proof of concept our experiment sheds light on the discussions of the ethical aspects of robots interacting with humans in social contexts Furthermore we present the study design used for this experiment as a template for in the wild studies with cold calling robots We propose that researchers can use this template as a starting point and modify it for conducting their own similar robot in the wild research

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