Computer Vision and Legal, social, ethical and professional (LSEP) Issues and Challenges

Abstract— The field of computer vision has seen rapid advancements in recent years, with applications ranging from image recognition and object detection to autonomous vehicles and medical diagnostics. However, along with technological progress, there is a growing recognition of the legal, social, ethical, and professional (LSEP) issues and challenges associated with the deployment of computer vision systems. This paper provides an overview of the key LSEP considerations in the development and implementation of computer vision technologies. It explores legal issues related to privacy, data protection, intellectual property, and liability. Additionally, it discusses social implications such as biases in datasets and algorithmic decisionmaking, as well as ethical dilemmas surrounding surveillance, consent, and fairness. Furthermore, it addresses professional responsibilities, including transparency, accountability, and the ethical use of Al technologies. By examining these LSEP issues and challenges, this paper aims to foster a deeper understanding of the complex interplay between technology and society and to inform the development of responsible and sustainable computer vision solutions.

<u>Keywords</u>— computer vision, CNN, deep learning, Machine Learning, Artificial Intelligence.

Introduction

Computer Vision is a field of artificial intelligence and computer science that focuses on enabling computers to interpret and understand visual information from the real world. It aims to replicate the human visual system by enabling machines to extract useful insights from images or videos. This

field encompasses various tasks such as image recognition, object detection, image segmentation, facial recognition, and scene understanding. The advancements in Computer Vision have been driven by developments in machine learning, deep learning, and the availability of large-scale datasets. These technologies allow computers to learn complex patterns and features from visual data, enabling them to perform tasks that were once considered exclusive to human vision. Applications of Computer Vision span across multiple industries and domains, including healthcare (medical image analysis), automotive (autonomous vehicles), retail (visual search and recommendation systems), security and surveillance. agriculture. manufacturing, and entertainment (augmented reality and virtual reality). However, along with its rapid development and widespread adoption, Computer Vision also brings forth various challenges and considerations, particularly in the realm of legal, social, ethical, and professional aspects.

Ethical and Societal issues caused by the misuse of computer vision

Security Concerns: Facial recognition can be fooled by hackers and criminals using masks or photos, allowing them to steal identities for fraudulent purposes. A Wall Street Journal report documented over 80,000 such attempts to exploit unemployment benefits during the pandemic.

Bias Concerns: Facial recognition can be biased against certain demographics. Studies show higher error rates in identifying Black and Asian faces, leading to potential wrongful arrests. It's also less

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Livia lacovino

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against computer and cyber tacks and vandalism An Ethical Global Information Society Jacques J. Berleur, Diane Whitehouse, 2013-11-11 Many challenges lie ahead in the development of a global information society Culture and democracy are two areas which may be under particular threat The book reflects on today s complex and uncertain cultural and democratic developments arising as a result of an increasingly global technologically connected world In particular it focuses on the Internet examining new metaphors for communication defining the issues at stake and proposing options actions and solutions Among the issues discussed were multi cultural developments cultural sensitivities and the involvement of cultural minorities generation gaps gender issues technology access for the elderly and the disabled technology transfer and Secure Computing Joseph Migga Kizza, 2019-01-01 This engaging textbook highlights the essential need for a strong ethical framework in our approach to computer information and engineering science Through thought provoking questions and case studies the reader is challenged to consider the deeper implications arising from the use of today s rapidly evolving computing technologies and ever changing communication ecosystems. This updated second edition features new material on information security intellectual property rights the Internet of Things and 5G technologies Topics and features introduces a philosophical framework and tools for understanding and analyzing computer ethics in personal public and professional spheres describes the impact of computer technology on issues of security privacy anonymity and civil liberties examines intellectual property rights in the context of computing including the risks and liabilities associated with software discusses such key social issues in computing the digital divide employee monitoring in the workplace and risks to physical and mental health reviews the history of computer crime and the threat of digitally facilitated bullying harassment and discrimination considers the ethical challenges arising from online social networks mobile telecommunications virtual reality the Internet of Things and 5G technologies includes learning objectives discussion questions and exercises throughout the book This concise and accessible work addresses the critical ethical and moral issues important to all designers and users of computer technologies The text incorporates the latest curricula requirements for undergraduate courses in computer science and offers invaluable insights into the social impact and legal challenges posed by the latest generation of computing devices and networks **Computerized Monitoring and Online Privacy** Thomas A. Peters, 1999-01-01 Increasingly computers are a part of even the most ordinary and simple aspects of human existence Computers have changed forever how we work learn shop and seek information They have also since the 1960s been programmed to monitor and analyze in various ways the interaction between humans and themselves The rapid development of the World Wide Web in the 1990s has given new life direction and urgency to this enterprise This work describes the myriad ways benign or malign in which computers are used to monitor people s use of computers Four distinct contexts for monitoring are examined formal learning environments e g educational software information seeking environments e g online library catalogs the workplace and the Internet e g online shopping Computerized monitoring often is called an invasion of privacy and the conceptual and ethical

dimensions of confidentiality and privacy in virtual environments are explored at length In addition to providing information about the various computerized monitoring tools and techniques this work focuses on the broader social conceptual ethical and legal implications Securing the Information Infrastructure Kizza, Joseph, Migga Kizza, Florence, 2007-09-30 This book examines how internet technology has become an integral part of our daily lives and as it does the security of these systems is essential With the ease of accessibility the dependence to a computer has sky rocketed which makes security Communication Yearbook 25 William B. Gudykunst, 2001-05 This volume offers state of crucial Provided by publisher the art communication research representing media interpersonal intercultural and other areas of communication It is an important reference on current research for scholars and students in the social sciences Recordkeeping, Ethics and Law Livia Iacovino, 2006-07-20 Distributed networks such as the Internet have altered the fundamental way a record is created captured accessed and managed over time and therefore who controls has access to and is responsible for its authenticity Law and ethics provide the major sources of regulatory controls over participants in such networks This book analyses the interrelationship of recordkeeping ethics and law in terms of existing regulatory models and their application to the Internet environment It proposes the legal and social relationship model as an analytical tool for identifying the rights and obligations of recordkeeping participants in networked business transactions within communities of common interest based on trust The model is also used to examine the legal concepts of property access privacy and evidence with particular reference to its Internet context As legal relationships have their basis in the law of obligations found in both common and civil law systems as well as archival science the model has a broad based application. The approach in this book has been to reconcile a number of archival traditions the common strands rather than the differences in particular concepts of identity trust acts actors and social relationships as fundamental concepts to social regulation It is therefore primarily directed to archives and records academics and practitioners especially those working within the realm of electronic records in order to provide them with a sound theoretical and practical knowledge of the legal and ethical dimensions of records created in distributed environments Electronic Monitoring in the Workplace John Weckert, 2005-01-01 There is rising concern about the rights of employees especially with respect to their rights to privacy Contributes to the debate and will point the way toward some solutions

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