

THE THREATS OF EXTINCTION OF HUMANITY COMING FROM OUTER SPACE, HOW TO DEAL WITH THEM AND HOW TO AVOID THEM

Fernando Alcaforado*

This article aims to present what needs to be done to contribute to the adoption of scientific and technological solutions to prevent the extinction of humanity from threats that exist in outer space and that could reach planet Earth. The threats to the survival of humanity were analyzed in our books *A humanidade ameaçada e as estratégias para sua sobrevivência* (*A threatened humanity and strategies for its survival*) with the subtitle *Como salvar a humanidade das ameaças à sua existência* (*How to save humanity from threats to its existence*) published by Editora Dialética de São Paulo in 2021 [1] and "How to protect human beings from threats to their existence and avoid the extinction of humanity" published by Genoris Publishing of Europe (Chiginda, Republic of Moldova) in 2023 [2].

There are countless threats to humanity's survival coming from outer space today and in the short, medium and long term future. The threats that exist in outer space concern: 1) collision on planet Earth of asteroids, comets or pieces of comets; 2) collision on planet Earth of planets of the solar system; 3) collision on planet Earth of orphan planets wandering in outer space; 4) emission of cosmic rays, especially gamma rays emitted by supernova stars; 5) catastrophic consequences on the Earth's environment resulting from the continued distancing of the Moon from the Earth; 6) death of the Sun; 7) collision of the Andromeda and Milky Way galaxies where the Earth is located; and, 8) end of the Universe. All these catastrophic events, which could occur in the short, medium and long term, could contribute to humanity being driven to extinction as a species if nothing is done to protect humanity.

The collision of asteroids and comets or pieces of comets on planet Earth

The collision on planet Earth of asteroids and comets or pieces of comets, which threaten to collide with Earth, requires the adoption of strategies to avoid their collisions with Earth (Figure 1).

Figure 1.- Collision of asteroids and comets with planet Earth



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Extinction Or Survival The Dilemmas Of Our Technological Existence

Ross McCluney



Extinction Or Survival The Dilemmas Of Our Technological Existence:

Extinction Or Survival? Margaret Janice Turner,1996 *The Study of English Language* M. J. Turner,1998 *The Northwest Technocrat* ,1996 *Humanity's Environmental Future* Ross McCluney,2004 McCluney comprehensively examines the wide variety of difficult environmental and socio economic problems facing humanity as it struggles toward a sustainable future *Environmental Studies* *Dilemmas of Life and Death* S. Cromwell Crawford,1995-01-01 This is a breakthrough work expanding the debate of the dilemmas of life and death in contemporary American society by carrying it beyond the insights of Western religious and philosophic thought to include ethical perspectives of the Hindu tradition The topics covered are the timely ethical issues that concern both Americans and all people of the world abortion suicide euthanasia and the environment A lively East West dialogue probes the roots of each issue in its native setting and the fruit of this historical approach is a clear cut analysis of up to date cases giving their current status in terms of ethics religion philosophy medicine and law Unlike traditional textbooks that concentrate on a theoretical analysis to the exclusion of practical issues this book does justice to both theoretical and practical ethics *Canadian Books in Print* ,1997 **Titans of the Forests** Gregory V. Short,2020-10-06 Instead of dwelling on the biological physiological or even the genetic aspects of our evolution *Titans of the Forests* takes a completely different approach which could be referred to as the uncharted and neglected field of macroevolution Uniquely captivating controversial and very readable it is the author's contention that we as a species were continuously forced to change our way of obtaining nourishment or rather our various economies in order to adapt to the ever changing world And as a result of this economic adaptation our species would then and only then begin to slowly change into the modern humans of today For much too long the world's scientific community has directed the discussion of our incredible evolution As a matter of fact our species biological physiological psychological and cultural evolution has been instigated propelled and shaped by our economic adaptation to a fluctuating environment In a very real sense the scientists are so far into the trees that they have actually ignored the forest Consequently we teach human evolution as a hodgepodge of different theories within the realm of microevolution thus failing to understand or even to recognize the economic thread that binds them altogether By integrating the timeline of our prehistoric past with that of our earliest known economies food gathering scavenging and nomadism the author was able to synthesize a sequence of events that illustrates the economic basis of our remarkable ascension and the beginnings of our present day institutions He not only reveals the genesis behind the cultural forces that exist within every human society but for the first time he has created a systematic and holistic approach in explaining the how and the why we have economically physiologically and then culturally evolved For unlike the rest of the animal kingdom we have possessed the extraordinary ability to change our economy which has made us an extremely adaptable species *Technocracy Digest* ,1995 *Bulletin of the Atomic Scientists* ,1979-03 **Rethinking Human Security** Moufida Goucha,John Crowley,2009-04-22 This book provides seven

studies that address major issues such as the human rights and human security nexus gender aspects of human security ethical and environmental challenges human security as a basic element for a policy framework the human security agenda developed by the Human Security Network and debates on human security within the United Nations Building on its variety of themes the book takes account of the complexity and scope of the concept of human security and proposes thereby to refresh and enrich discussion Contributors are internationally renowned experts in the different subfields of human security Offers an overview of current trends and insights on what is at stake if the international community is to maintain the momentum created a few years ago when the concept of human security emerged Designed to help both newcomers and experts in the field of human security Readers will find inspiration in the new developments of a concept that aims to shape practical action to meet the needs of the most vulnerable

The Rough Guide to Surviving the End of the World Rough Guides, 2012-08-16 The Rough Guide to Surviving the End of the World is a light hearted yet well informed look at threats to the very existence of life on Earth how we might be able to deal with them and if things go truly horribly wrong how we might just be able to survive Written by scientist and sci fan Paul Parsons this gripping book examines scenarios ranging from megafloods to space radiation supervolcanoes to bioengineering and what you should do when the sh t hits the fan Along the way we meet some of the lesser trodden paths to oblivion including the possibility that the human race will be gripped by mass stupidity and the outrageous idea that life on Earth could all be one giant Matrix style computer simulation that its creators might one day decide to switch off All are placed under the scientific spotlight and presented with clarity and humor To survive Armageddon you need the best advice and information available which is here presented in ample detail and capturing every plausible catastrophic scenario Now available in ePub format **From Human to Posthuman**

Professor Brent Waters, 2013-05-28 Technology is one of the dominant forces shaping the emerging postmodern world Indeed the very fabric of daily life is dependent upon various information communication and transportation technologies With anticipated advances in biotechnology artificial intelligence and robotics that dependence will increase Yet this growing dependence is accompanied with a deep ambivalence For many technology symbolises the faith of the postmodern world but it is an ambivalent faith encapsulating both our hopes and fears for the future This book examines the religious foundations underlying this troubled faith in technology as well as critically and constructively engaging particular technological developments from a theological perspective *Bulletin of the Atomic Scientists*, 1971-05 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world **A Thousand Brains** Jeff Hawkins, 2021-03-02 A bestselling author neuroscientist and computer engineer unveils a theory of intelligence that will revolutionize our understanding of the brain and the future of AI For all of neuroscience's advances we've made little progress on its biggest question How do simple cells in the brain create intelligence Jeff Hawkins and his team

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Controversial Issues in Adventure Programming Bruce Martin, Mark Wagstaff, 2012-05-04 *Controversial Issues in Adventure Programming* offers an engaging approach to the consideration of enduring current and emerging issues in the field Written primarily for upper level undergraduate and graduate students the text presents 20 issues in a debate format challenging students to participate in critical discourse concerning these issues as practitioners in the field of adventure programming Respected authors Bruce Martin and Mark Wagstaff have assembled a team of more than 50 contributors from around the globe to reassess some of the underlying assumptions on which adventure programming is based They have critically examined implications of new developments for emerging practice and discussed how best to position the field of adventure programming in addressing broader societal concerns To set the stage for the debate each issue is prefaced with a general overview including the evolution of the issue and its significance in light of broader social concerns Then contributors present the pros and cons of each issue A debate format helps students develop an understanding of the key points around each issue while also becoming familiar with current research pertinent to these issues This approach also encourages students to grapple with these issues and begin to develop their own informed thoughtful perspectives as they prepare for careers in adventure programming *Controversial Issues in Adventure Programming* is divided into two parts Part I begins by discussing issues of ongoing concern in the field including the certification debate motorized versus nonmotorized forms of outdoor recreation and program accreditation In part II contemporary and emerging issues are presented such as the use of online educational programming in the field of adventure programming As a reference for practitioners and policy makers *Controversial Issues in Adventure Programming* offers new and updated perspectives on enduring and emerging issues as well as a synthesis of the most recent related scholarly literature In addition the text serves as a resource in understanding how the adventure programming industry can contribute to addressing issues of broad concern in society such as public

health global climate change stewardship of public lands and waterways and education reform Controversial Issues in Adventure Programming encourages readers to participate in some of the central debates occurring in the field In particular this timely resource will help students broaden their understanding of the field as they critically examine and respond to a range of enduring contemporary and emerging topics in adventure programming *Bulletin of the Atomic Scientists*, 1971-05 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world *Universe* Eric Chaisson, 1988 *The AI Dilemma* Dr. Cindy Gordon, Malay A. Upadhyay, 2021-03-16 Understand the Impact of AI in Industries and Assess Your Organizational AI Readiness KEY FEATURES _ Proven real use cases of AI with its benefits illustrated _ Exposure to successful implementation of AI in 8 sectors _ Exclusive coverage for the leadership team to design AI strategy with calculated risks and benefits DESCRIPTION This book brings you cutting edge coverage on AI and its ability to create a perfect world or a perfect storm across industries Equipped with numerous real world use cases the book imparts knowledge on innovations with AI and a process to determine your organizational AI readiness You will gain from ethical considerations execution strategy and a comprehensive assessment of AI in your sector The sectors covered include Healthcare Education Media Telecom Travel Transportation Governance Agriculture Manufacturing Retail Business Functions Finance HR Law Marketing Sales Offices and Personal Life Apart from this you will get acquainted with AI policies in the USA China Canada UK Germany Australia India Russia OECD and the EU This book will assist you in understanding your organization s AI maturity and how to gain competitive advantage in your respective industry by introducing AI in the business culture By the end of this book you will get strategic insights on managing risk and advancing the AI mandate in your business practices WHAT YOU WILL LEARN _ Productive destructive future possibilities with AI _ AI s innovations and applications in different sectors _ Ethical challenges strategic considerations with AI _ AI policies in some of the major economies _ AI governance maturity assessment for organizations WHO THIS BOOK IS FOR This book is helpful for those looking to grasp the current state and future possibilities of AI This includes business and administrative educators students and professionals It is particularly useful for leaders who would like to focus on specific industries assess their current state with AI and get their organizations to be AI ready TABLE OF CONTENTS 1 AI is Everywhere 2 AI in Healthcare 3 AI in Education 4 AI in Transportation Space 5 AI in Media Communication 6 AI in Government 7 AI by Countries US China EU Canada UK and India 8 AI in Businesses Value Chain 9 AI at Work 10 AI at Home in Personal Life 11 Getting AI right in organizations **Global Bioethics** Brunetto Chiarelli, 2011-11-04 Two new factor have been added to the ideological change in the second half of the past century the ecological impact of humankind on the environment due to the population increase and the innovative impact of science first with atomic physics which introduced the scission of the fundamental unit of matter the atom and then with molecular

biology which led to the decoding of genetic information and intervention of biological engineering that annihilate our concepts of individual and species as fundamental units in biology This stage of fundamental rethinking is however overshadowed by the threat of ecological disaster and catastrophic population increase which not only impose limits to development but undermine the very survival of Humankind The future survival our species in fact depends on the interaction between its reproductive characteristics and the productivity of the territory which even if increased by the intellectual capability of the human brain has intrinsically limits The adaptive choices which are also biotechnological and biomedical of the interaction between human population and the natural ambience is the conceptual basis of the new discipline Global Bioethics

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