

Reflections Towards the Future of Medical Informatics

A Farewell Lecture after Almost Half a Century of Medical Informatics Activities

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Summary

Objective: To provide guidance on the future development and role of medical informatics, or biomedical and health informatics, in form of reflections.

Method: To report on the author's previous activities as a medical informatician, which spans almost half a century. It begins in 1973 when he started to study medical informatics. In 1978, more than four decades ago, his professional work started. He retired at the end of summer semester 2021. This was the occasion to prepare this farewell lecture.

Results: In twenty reflections, thoughts are presented on professional careers (R1 – 'places'), on medical informatics as discipline (R2 – 'interdisciplinarity', R3 – 'theses', R4 – 'affiliations'), on research (R5 – 'duality', R6 – 'confusion', R7 – 'connections', R8 – 'collaboration'), on education (R9 – 'community', R10 – 'competencies', R11 – 'approaches'), on academic self-governance (R12 – 'autonomy'), on engagement (R13 – 'Soyuzhes', R14 – 'professional societies', R15 – 'respect', R16 – 'lightstep walk'), and on good scientific practice (R17 – 'time invariants', R18 – 'Zeitgeist', R19 – 'knowledge gain', R20 – 'searching').

Conclusions: It has been a pleasure for me to participate in medical informatics activities for almost fifty years. During that time, there have been significant advances, including in medicine and in informatics, and also in medical informatics itself. And now it is the turn of others. While keeping in mind that tradition is not preserving the ashes, but passing on the fire, this report with its reflections may be of some help.

Keywords

Medical Informatics; Biomedical and Health Informatics; Research; Education; Academic self-governance; Engagement; Good Scientific Practice

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1 Introduction

1.1 About this Manuscript

When the regular term of a professor ends, and the new professional life phase as a professor emeritus is about to begin, it is a tradition at German universities to give a so-called farewell lecture (in German: Abschiedsvorlesung). My farewell lecture was first presented on September 22, 2021, at TU Braunschweig in German [1]. In addition, I had the opportunity to give this lecture also in English on October 16, 2021, in Athens, Greece, during ICIMTH (International Conference on Informatics, Management, and Technology in Healthcare) 2021. This manuscript is an updated edited written version of the farewell lecture in English.

This English version started from the German version in [1], which I first translated and to some extent modified, supported by the DeepL program [2]. Then, Casimir Kulikowski kindly read the first version and suggested edits to my German-biased English, which developed into the present manuscript.

Please note that the German manuscript is more extensive, especially with the inclusion of a commented poem and nine appendices. Some details related to these appendices in [1] will occasionally be referred to here. As the German manuscript has been published in GMS MIBE, the official journal of the German Association of Medical Informatics, Biometry and Epidemiology (GMDS) – an Open Access journal – the German manuscript and its appendices can be easily accessed.

1.2 Objective(s) and Method

One objective of this farewell lecture is to reflect on future developments and on the role of medical informatics as a discipline. The manuscript contains twenty reflections, related primarily, but not exclusively, to medical informatics. These reflections may be of primary interest to readers.

In order to set the context for as well as to explain and elaborate on these reflections, it seemed necessary first to report about my work as a medical informatician. This part of the report might be of less interest to readers. Reporting about my work was both, method and another objective.

Please note that in this farewell lecture I will once again use the term medical informatics in its wide, comprehensive sense ([3], p. 256, and section 2.2 in this manuscript). Others may prefer to call this discipline biomedical informatics, or health informatics, or biomedical and health informatics or yet something else [4, 5–8].

My reflections on the future are presented after almost half a century of medical informatics activities, which I began studying almost fifty years ago in 1973. In 1978, more than four decades ago, my professional career started.

Do I really report on my activities? Actually, this is not possible, because I have always collaborated with others. Many people I have met during these almost five decades have shaped me. I have learned from them and I am still learning today. If I mention achievements here, then these people have helped to achieve them.

Reflections At The End Of A Century

Christina Lupton



Reflections At The End Of A Century:

Reflections at the End of a Century Morris Slavin, Louis Patsouras, 2002 **Critical Reflections on Poetry and Painting (2 vols.)** Jean-Baptiste Du Bos, 2021-07-15 Jean Baptiste Du Bos Critical Reflections on Poetry and Painting first published in French in 1719 is one of the seminal works of modern aesthetics Du Bos rejected the seventeenth century view that works of art are assessed by reason Instead he believed audience members have sentiments in response to artworks Their sentiments are fainter versions of those they would feel in response to actually seeing what the work of art imitates Du Bos was influenced by John Locke s empiricism and in turn had a major impact on virtually every major eighteenth century contributor to philosophy of art including Voltaire Montesquieu Diderot Rousseau Herder Lessing Mendelssohn Kames Gerard and Hume This is the first modern annotated and scholarly edition of the Critical Reflections in any language

Serious Reflections During the Life and Surprising Adventures of Robinson Crusoe with His Vision of the Angelick World Daniel Defoe, 2022-04-22 This collection of essays commenting on the themes of The Life and Strange Surprising Adventures of Robinson Crusoe and The Farther Adventures of Robinson Crusoe is invaluable for understanding Defoe s attitudes toward these particular works and toward his fiction in general **Reflections on a Ravaged Century** Robert Conquest, 2001 A look at the twentieth century examines the factors and events that have sent millions to their deaths discussing the philosophies that have caused so much conflict as well as what the future may hold for the human race

Dhamma Reflections Bhikkhu Bodhi, 2017-01-15 This volume brings together 53 essays of Bhikkhu Bodhi previously published by the Buddhist Publication Society in newsletters and other publications These essays reveal the depth and breadth of Bhikkhu Bodhi s ability to communicate the timeless teachings of the Buddha and his skillful guidance in applying the Dhamma in everyday life Reading and the Making of Time in the Eighteenth Century Christina Lupton, 2018-08-15 How did eighteenth century readers find and make time to read Books have always posed a problem of time for readers Becoming widely available in the eighteenth century when working hours increased and lighter and quicker forms of reading newspapers magazines broadsheets surged in popularity the material form of the codex book invited readers to situate themselves creatively in time Drawing on letters diaries reading logs and a range of eighteenth and early nineteenth century novels Christina Lupton s Reading and the Making of Time in the Eighteenth Century concretely describes how book readers of the past carved up expanded and anticipated time Placing canonical works by Elizabeth Inchbald Henry Fielding Amelia Opie and Samuel Richardson alongside those of lesser known authors and readers Lupton approaches books as objects that are good at attracting particular forms of attention and paths of return In contrast to the digital interfaces of our own moment and the ephemeral newspapers and pamphlets read in the 1700s books are rarely seen as shaping or keeping modern time However as Lupton demonstrates books are often put down and picked up they are leafed through as well as read sequentially and they are handed on as objects designed to bridge temporal distances In showing how discourse itself

engages with these material practices Lupton argues that reading is something to be studied textually as well as historically Applying modern theorists such as Niklas Luhmann Bruno Latour and Bernard Stiegler Lupton offers a rare phenomenological approach to the study of a concrete historical field This compelling book stands out for the combination of archival research smart theoretical inquiry and autobiographical reflection it brings into play

Innovative Assessment for the 21st Century Valerie J. Shute, Betsy Jane Becker, 2010-09-08 In today's rapidly changing and information rich world students are not acquiring adequate knowledge and skills to prepare them for careers in mathematics science and technology with the traditional approach to assessment and instruction New competencies e.g. information communication and technology skills are needed to deal successfully with the deluge of data In order to accomplish this new educationally valuable skills must be acknowledged and assessed Toward this end the skills we value and support for a society producing knowledge workers not simply service workers must be identified together with methods for their measurement Innovative Assessment for the 21st Century explores the faces of future assessment and ask hard questions such as What would an assessment that captures all of the above attributes look like Should it be standardized What is the role of the professional teacher

Studies in Seventeenth-Century English Literature, History and Bibliography, 2021-11-01

From free trade to globalization uncovering the mist of 21st century José Alberto, Pérez Toro, 2016-03-14 Much has been written about globalization as an economic and political concept The academic debate looks forward for explanations about the historical roots and development of this emerging phenomenon where the Nation State's evolved into a system where nations are ruled by the dynamics of global interdependence Globalization in the new era is characterized as a process where geographical political and cultural borders tend to dissolve The Westphalia notion of sovereignty capitulates against the principle of political subordination as integration of local power ensuring national legitimacy

The Oxford Handbook of German Philosophy in the Nineteenth Century Michael N. Forster, Kristin Gjesdal, 2015-02-05 The Oxford Handbook of German Philosophy in the Nineteenth Century is the first collective critical study of this important period in intellectual history The volume is divided into four parts The first part explores individual philosophers including Fichte Hegel Schopenhauer Marx and Nietzsche amongst other great thinkers of the period The second addresses key philosophical movements Idealism Romanticism Neo Kantianism and Existentialism The essays in the third part engage with different areas of philosophy that received particular attention at this time including philosophy of nature philosophy of mind philosophy of language philosophy of history and hermeneutics Finally the contributors turn to discuss central philosophical topics from skepticism to materialism from dialectics to ideas of historical and cultural Otherness and from the reception of antiquity to atheism Written by a team of leading experts this Handbook will be an essential resource for anyone working in the area and will lead the direction of future research

The Oxford Handbook of Reinhold Niebuhr Robin Lovin, Joshua Mauldin, 2021 This authoritative Handbook features 38 chapters placing Reinhold Niebuhr 1892-1971 in his historical context to offer readers an

appreciation of his insights and how he was received by his contemporaries

Religious Thought in England in the

Nineteenth Century John Hunt, 1896 Summarizes the works and views of theologians and intellectual leaders with brief biographies p 363 396 and discusses the content and significance of important series and lectureships

Carbon Hunters: Reflections And Forecasts Of Climate Markets In The 21st Century Richard L Sandor, Paula Diperna, 2025-09-23 The book is a unique overview of the launching of carbon markets worldwide and the evolution of those markets as critical tools to manage climate change and other environmental problems The book also presents uniquely personal narratives of the authors who have each led unconventional and exciting professional lives meeting by coincidence and then working together on the largest environmental and economic problems of our times addressing climate change with flexibility and maximum potential Given the unique backgrounds of the authors as pioneers in their respective domains the book is likely to have no comparable or competitive books Carbon Hunters also situates the evolution of carbon markets as a journey of invention imagination and creativity bringing to life in real world terms the academic and intellectual underpinnings of an exceptional and rewarding journey inventing and activating new markets to save our planetary home Finally the book offers catalytic Food for Thought and Forecasts on how carbon markets can shape the future of environmental stewardship

Teaching Writing in the Twenty-First Century Beth L. Hewett, Tiffany Bourelle, Scott Warnock, 2021-12-30 A comprehensive guide for students and instructors of composition Includes an overview of the field and discussion of composition purposes and genres digital education modalities instructional environments and instructional media Topics include teaching online composing processes and approaches designing and scaffolding assignments portfolio assignments multimodal assignments and response feedback and evaluation

Music as a Science of Mankind in Eighteenth-Century Britain Maria Semi, translated by Timothy Keates, 2016-04-29 Music as a Science of Mankind offers a philosophical and historical perspective on the intellectual representation of music in British eighteenth century culture From the field of natural philosophy involving the science of sounds and acoustics to the realm of imagination involving resounding music and art the branches of modern culture that were involved in the intellectual tradition of the science of music proved to be variously appealing to men of letters Among these a particularly rich field of investigation was the British philosophy of the mind and of human understanding developed between the seventeenth and eighteenth centuries which looked at music and found in its realm a way of understanding human experience Focussing on the world of sensation trying to describe how the human mind could develop ideas and emotions by its means philosophers and physicians often took their cases from art s products be it music sounds painting colours or poetry words as signs of sound conveying a meaning thus looking at art from a particular point of view that of the perceiving mind The relationship between music and the philosophies of mind is presented here as a significant part of the construction of a Science of Man a huge and impressive project involving both the study of man s nature to which in David Hume s words all sciences have a relation and the creation of an ideal of what Man should be Maria Semi sheds light on how

these reflections moved towards a Science of Music a complex and articulated vision of the discipline that was later to be known as musicology or Musikwissenschaft

Encyclopedia of Nineteenth-century Thought Gregory Claeys, 2005
 Covering the period from 1789 to 1914 this work primarily deals with key figures and ideas in social and political thinking but entries also include science religion law art concepts of modernity the body and health thereby covering comprehensively the intellectual history of the period

The Flaneur in Nineteenth-Century British Literary Culture Isabel Vila-Cabanes, 2018-10-15
 The flaneur is a cultural and literary phenomenon usually associated with nineteenth century Paris but the type also exists in the artistic and literary panorama of other major European capitals such as London Berlin and Moscow Despite massive recent interest in the figure of the flaneur in scholarly studies analyses about the nineteenth century British analogue are often fragmentary appearing in the form of isolated articles However there is an abundant amount of nineteenth century novels sketches and journalistic essays which offer remarkable and hitherto overlooked accounts of the British metropolis and which frequently include the figure of the flaneur as a central character or the topic of flanerier as a theme This book explores a great array of texts making an essential contribution to our knowledge and understanding of the prehistory or rather history of the British flaneur from the early eighteenth century to the early twentieth century with a special focus on the nineteenth century The flaneur is looked at as a figure in which the development and dynamics of the modern metropolis and its impact on the literary discourse are manifested from a formal as well as thematic perspective

The Emergence of Women Into the 21st Century Patricia L. Munhall, Virginia Macken Fitzsimons, 1995
 On the verge of entering the 21st century women today are living in an age of restlessness and flux This outstanding interdisciplinary compilation links post modern perspectives on women s development and potential with health political contexts relationships culture age education social conditions and economic status A diverse group of writers offer their insights and ideas for improving the condition of all human beings through the augmentation of women s potential More than a cursory view of women s experiences this remarkable book examines contemporary issues in the context of actual events and milestones that have affected or will affect every woman today In the 21st century and beyond There are three titles in the Emergence series The Emergence of Women into the 21st Century ISBN 0887376622 the Emergence of Family into the 21st Century ISBN 0763711055 the Emergence of Man into the 21st Century ISBN 0763711721

Invoking Slavery in the Eighteenth-Century British Imagination Srividhya Swaminathan, Adam R. Beach, 2016-05-06
 In the eighteenth century audiences in Great Britain understood the term slavery to refer to a range of physical and metaphysical conditions beyond the transatlantic slave trade Literary representations of slavery encompassed tales of Barbary captivity the exotic slaving practices of the Ottoman Empire the political enslavement practiced by government or church and even the harsh life of servants under a cruel master Arguing that literary and cultural studies have focused too narrowly on slavery as a term that refers almost exclusively to the race based chattel enslavement of sub Saharan Africans transported to the New

World the contributors suggest that these analyses foreclose deeper discussion of other associations of the term They suggest that the term slavery became a powerful rhetorical device for helping British audiences gain a new perspective on their own position with respect to their government and the global sphere Far from eliding the real and important differences between slave systems operating in the Atlantic world this collection is a starting point for understanding how slavery as a concept came to encompass many forms of unfree labor and metaphorical bondage precisely because of the power of association

Poetry, Physics, and Painting in Twentieth-Century Spain C. Gala, 2011-11-18 This book reads the work of Salinas Guill n Larrea Diego Alberti M ndez and Lorca in analogical relation with Cubism and with the revolutionary discoveries of modern physics Gala advances traditional criticism by considering these artists in the broader cultural context of Spain Europe and European Modernism

Adopting the Song of Term: An Emotional Symphony within **Reflections At The End Of A Century**

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