

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 – 'Soyuzhen', 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

Yearb Med Inform 2023

<http://dx.doi.org/10.1855/j-0043-1798716>

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

Shadworth Hollway Hodgson



Reflections At The End Of A Century:

Reflections at the End of a Century Morris Slavin, Louis Patsouras, 2002 *Cosmic energies and mankind: graphs for reflection* Николай Конюхов, 2018-09-13 This book is about the facts of fundamental dependency between the mankind development and cosmic energies both electromagnetic and non electromagnetic ones The facts are systematized in graphs Their interpretation and conclusions are a prerogative of the readers It s not a simple one For those who are used to think independently **Studies in Seventeenth-Century English Literature, History and Bibliography** , 2021-11-01

Theological Reflection in Eighteenth-Century Russia Adam Drozdek, 2021-02-04 The book examines the wide panorama of Russian theological reflection found in a variety of sources ecclesiastical books sermons literature poetry theater historical treatises scholarly works and free translations of theology books It presents not only the reflections of authors who remained in the framework of the official Orthodox theology but also dissenters primarily Old Believers and masons who often sought to infuse Orthodox Christianity with a more personal approach *The Philosophy of Reflection* Shadworth Hollway Hodgson, 1878 *The Philosophy of Reflection* Hodgson, 1878 *The Art of Reflection* Marsha Meskimmon, 1996 Marsha Meskimmon examines a wide variety of women s self portraiture from performance to body art in lively and accessible prose She takes the cultural focus from the dominant male self portraiture to the more marginalized gender bringing women artists perspectives to the forefront *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 **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 **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

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scholars and students The 11 volume series gives an accessible account of each philosopher's work but also explains their relationship to the work of other philosophers 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 flanerie 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 Posthuman Condition in 21st Century Literature and Culture María

Ferrández-Sanmiguel, Esther Muñoz-González, Carmen Laguarda-Bueno, 2025-06-18 More than a decade after its first definitions critical posthumanism has become consolidated as a key discourse for the understanding of our contemporary state of being within what has been called the paradigm of posthumanity but also crucially as an ideology and a praxis that guides our engagements with the world around us This double dimension characterizes the contributions to this volume They resort to critical posthumanism in its most recent developments as a set of tools for critical and cultural analysis of our posthuman times as posthumanist concerns manifest in our cultural products This volume studies the most recent evolutions in the field of critical posthumanism as represented in key novels and other screened popular cultural products produced in the first and second decades of the twenty first century Resorting to the analytical tools provided by critical posthumanist theory in cross disciplinary dialogue with other fields such as transhumanism feminist gender and queer theory vulnerability studies new materialism critical animal studies and environmental theory the scholars whose work this volume showcases bear witness to how literature and popular culture have been influenced and impressed by posthumanism Chapters 1 5 7 8 and 12 are available open access under a Creative Commons Attribution 4.0 International License via Springerlink

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Table of Contents Reflections At The End Of A Century

1. Understanding the eBook Reflections At The End Of A Century
 - The Rise of Digital Reading Reflections At The End Of A Century
 - Advantages of eBooks Over Traditional Books
2. Identifying Reflections At The End Of A Century
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Reflections At The End Of A Century
 - User-Friendly Interface
4. Exploring eBook Recommendations from Reflections At The End Of A Century
 - Personalized Recommendations

- Reflections At The End Of A Century User Reviews and Ratings
- Reflections At The End Of A Century and Bestseller Lists
- 5. Accessing Reflections At The End Of A Century Free and Paid eBooks
 - Reflections At The End Of A Century Public Domain eBooks
 - Reflections At The End Of A Century eBook Subscription Services
 - Reflections At The End Of A Century Budget-Friendly Options
- 6. Navigating Reflections At The End Of A Century eBook Formats
 - ePub, PDF, MOBI, and More
 - Reflections At The End Of A Century Compatibility with Devices
 - Reflections At The End Of A Century Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Reflections At The End Of A Century
 - Highlighting and Note-Taking Reflections At The End Of A Century
 - Interactive Elements Reflections At The End Of A Century
- 8. Staying Engaged with Reflections At The End Of A Century
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Reflections At The End Of A Century
- 9. Balancing eBooks and Physical Books Reflections At The End Of A Century
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Reflections At The End Of A Century
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Reflections At The End Of A Century
 - Setting Reading Goals Reflections At The End Of A Century
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Reflections At The End Of A Century
 - Fact-Checking eBook Content of Reflections At The End Of A Century

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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