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 rate of medical informatics, or biomedical and health informatics, in form of sefections.

Method: To report on the outher's previous activities as a medical influmeticion, which spaces almost helf a century. It began in 1973 when he stanted to study medical informatics, in 1978, more than four decades ago, his professional work started. He retired at the end of summer sumester 2021. This was the accession to prepare this forewell lacture.

Results: In twenty reflections, thoughts are presented an prefessional covers (R1 – 'places'), on medical informatics as discipline (R2 – 'introduciplinesity', R3 – 'touries', R4 – 'collisions'), an exacute (R5 – 'ducity', R5 – 'confluences', R7 – 'commissions', R8 – 'collisionation'), an education (R9 – 'community', R10 – 'competencies', R11 – 'approaches'), on academic self-government (R12 – 'autonomy'), on engagement (R13 – 'Scophes', R14 – 'professional territories', R15 – 'nequestr', R16 – 'tightops wolk'), and on good scientific practice (R17 – 'time invariants', R18 – '2ettgests', R19 – 'knowledge goo', R20 – 'exerctions').

Condusions: If his been a pleasure for me to participate in medical influencetics activities for almost lifty years. During that time, there have been significant advances, including in medicine and in influencetics, and ofto in medical influences; shall, And more it in the turn of others. While larging in mind that hadition is not presenting the collers, but passing on the fire, this report with its selfuctions very be of some help.

Keywords

Medical Informatics, Biomedical and Health Informatics, Research, Eucation, 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

Jean-Baptiste Du Bos

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 Surprizing 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 **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 Innovative Assessment for the 21st Century Valerie J. Shute, Betsy Jane Becker, 2010-09-08 In today s everyday life 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 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 guicker

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Reflections At The End Of A Century Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Reflections At The End Of A Century**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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