## 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 propose 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: It has been a pleasure for me to participate in medical informatics activities for almost lifty years. During that time, there have been significant obseroes, including in medicine and in informatics, and other in medical informatics that! And now it is 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 may 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**

**Christina Lupton** 

### **Reflections At The End Of A Century:**

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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

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 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 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 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 From free trade to globalization uncovering the mist of 21st century José Alberto, Pérez Toro, 2016-03-14 Much has race 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 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

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