Health Informatics: Building Capacity Worldwide.

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Summary

Objectives: To provide an editorial introduction to the 2010 IMIA Yearbook of Medical Informatics with an overview of its contents and contributors.

Methods: A brief overview of the main theme, and an outline of the purposes, contents, format, and acknowledgment of contributions for the 2010 IMIA Yearbook.

Results: This 2010 issue of the IMIA Yearbook highlights important developments in the building of workforce capacity in medical informatics worldwide, covering activities in research, education and practice in this interdisciplinary field. Progress towards educating and keeping professionals in the field up-to-date is complemented by outreach to the wide range of disciplines and biomedical and health specialties that are covered by this very broad field, identified from the recent literature, illustrated by selected papers published during the past 12 months.

Conclusion: Reviews and Surveys of the main research sub-fields in biomedical informatics in the Yearbook provide an overview of progress and current challenges across the spectrum of the discipline.

Keywords

Editorial, 2010 IMIA Yearbook of Medical Informatics, surveys of biomedical informatics, reviews of biomedical informatics, history of biomedical informatics, IMIA and its societies

Introducing the 2010 Yearbook and its Theme on Building Capacity Worldwide

The Yearbook includes a number of articles focused on the theme of Health Informatics: Building Capacity Worldwide, covering present and past informatics contributions as well as future directions on how the field is addressing challenging problems of preparing professionals, researchers, and educators to deal with the increasing complexity of biomedical and health informatics in the 21st Century. The motivation behind the theme is that we need to be educating, preparing and training more competent professionals across the globe in all areas covering the breadth of domains of our multi- and inter-disciplinary field. The essential role that biomedical informatics plays in the foundations of healthcare, follows from the increasing effectiveness and dissemination of informatics-enabled solutions. Today, considerable new challenges arise with attempts to scale-up activities in biomedical informatics both within countries and region. It is the role of IMIA to provide a global perspective that balances the needs of developed and developing regions of the world in bringing the latest advances in biomedical and health informatics to an increasingly wider community of interest. The purpose of this 2010 Yearbook of Medical Informatics is to survey the progress achieved in our field over the past year, with its publication designed to coincide with the opening of the 2010 World Congress of Medical Informatics in Capetown, South Africa on September 13, emphasizing both the maturity and widespread impact of our discipline. The theme of Building Capacity Worldwide is especially relevant to help in achieving the high expectations of excellence in research in our field, that, combined with the diversity, breadth, and effectiveness of practical systems for healthcare, is what drives us forward internationally.

Major papers that comprise this 2010 IMIA Yearbook include:

Surveys:
- Chris Seegbrets (HF): Human Factors for Capacity Building
- Alvin Marcelo (HIS): Health Information Systems: Frameworks for Developing Countries
- Dan Rubin (SSII): Imaging Informatics: Toward Capturing and Processing Semantic Information in Radiology Images
- Georges Bediang (DS): Medical Decision Support Systems in Africa
- Chris Chute (KRM): Distributed Biomedical Terminology Development: From experiments to open process
- Heimar Marin (ECI): Nursing Informatics Education in the South: a Brazilian Experience
- Elke Lang (Bio): In Cereos and in Silico: Tissue Microarray (TMA) Techniques and Bioinformatics are Thriving Forces in Medical Science and Personalized Medicine

Reviews:
- Maurice Mars: Health Capacity Development Through Telemedicine in Africa
- Pradeep Ray: mHealth—an Ultimate Platform to Serve the Unserved
- Luo Shuqian, Zhang Kun and Li Baoluo (China): Medical Informatics in China: Healthcare IT
Information on IMIA and on its Regional Groups

The central challenge facing IMIA this year has been the preparations for its triennial conference MEDINFO, which will take place for the first time in Africa, in Cape Town in 2010.

The Yearbook contains detailed information about IMIA, its Member Societies, Regional Groups, Working Groups, and Special Interest Groups.

The section on IMIA Working Groups and Special Interest Groups was organized by Hyeoung-Ae Park. A detailed report on the activities of IMIA regions is included with the help of Regional Editors. We would like to thank Rolf Engelbrecht (for EFMI), Michio Kimura (for APAMI), Ghislain Kouematchoua (for HELINA), Alvaro Margolis (for IMIA LAC), Ramin Moghaddam (for MEAHI) and Karen Greenwood and RoseMary MacVicar-Elliot (for the North American IMIA Member Societies) for their valuable contributions.

Acknowledgements

The editors gratefully acknowledge the contributions of the referees and guest editors. They would also like to thank the authors of the invited surveys, reviews and the historical paper, and the contributors to the Research and Education Section. They are most appreciative of the considerable skill, time, and effort devoted by Christian Lovis, the Managing Editor, and by the Section Editors, Claudine Bréant, Célia Boyer, Adrien Depeursinge, Arnaud Gaudinat, Alberto Guardia, Daniel Kubias, Rodolphe Meyer, Henning Müller, Anne-Marie Rassinoux, Patrick Ruch, and Lina Yip. They especially wish to thank the Editorial Assistant, Martina Rassinoux, Patrick Ruch, Anne-Marie Rassinoux, Patrick Ruch, and Lina Yip. They especially wish to thank the Editorial Assistant, Martina Rassinoux, Patrick Ruch, Anne-Marie Rassinoux, Patrick Ruch, and Lina Yip. They especially wish to thank the Editorial Assistant, Martina Rassinoux, Patrick Ruch, Anne-Marie Rassinoux, Patrick Ruch, and Lina Yip. 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