# Contents

**IMIA Yearbook of Medical Informatics 2008**

<table>
<thead>
<tr>
<th>Special Section: Access to Health Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>President’s Statement</strong></td>
</tr>
<tr>
<td><strong>IMIA Strategic Plan</strong></td>
</tr>
<tr>
<td><strong>Obituary</strong></td>
</tr>
<tr>
<td><strong>Editorial</strong></td>
</tr>
<tr>
<td><strong>Erratum</strong></td>
</tr>
<tr>
<td><strong>Editorial Retraction</strong></td>
</tr>
<tr>
<td><strong>Preface</strong></td>
</tr>
</tbody>
</table>

## Special Section: Access to Health Information

| **Synopsis** | **A. Gaudinat** | Access to Health Information | 22 |
| **Best paper selection** | Content summaries of*: | | |

## Section 1: Health and Clinical Management

| **Survey** | **H. F. Marin, R. Carr** | Nursing Care Systems: enhancing care processes in practice and management | 25 |
| **Synopsis** | **D. Kubias** | Health and Clinical Management — From Hospital to Home Patient Care Management | 29 |
| **Best paper selection** | Content summaries of*: | | |

* The complete papers can be accessed in the Yearbook’s full electronic version, provided that permission has been granted by the copyright holder(s)


**Section 2: Human Factors**

**Survey**
G. Demiris, B. K. Hensel
Informatics for an Aging Society: A Systematic Review of “Smart Home” Applications

**Synopsis**
P. Ruch
A Bio-Medical Informatics Perspective on Human Factors

**Best paper selection**
Content summaries of*:


**Section 3: Health Information Systems**

**Survey**
P. J. Murray, M. Cabrer, M. Hansen, C. Paton, P. L. Elkin, W. S. Erdley
Towards Addressing the Opportunities and Challenges of Web 2.0 for Health and Informatics

**Synopsis**
C. Bréant
Health Information Systems: Current Challenges and Developments

**Best paper selection**
Content summaries of*:


* The complete papers can be accessed in the Yearbook’s full electronic version, provided that permission has been granted by the copyright holder(s)
Section 4: Sensor, Signal and Imaging Informatics

Survey

H. Müller
Medical Multimedia Retrieval 2.0

Synopsis

H. Müller
Sensors, Signals, and Images in Medical Informatics: Progress and Evaluation

Best paper selection

Content summaries of*:


Section 5: Decision Support, Knowledge Representation and Management

Survey

O. Bodenreider
Biomedical Ontologies in Action: Role in Knowledge Management, Data Integration and Decision Support

Synopsis

A.-M. Rassinoux
Decision Support, Knowledge Representation and Management: Structuring Knowledge for Better Access

Best paper selection

Content summaries of*:


Section 6: Education and Consumer Informatics

Survey

L. Taylor, P. A. Abbott, K. Hudson
E-Learning for Workforce Development

Synopsis

C. Boyer
Education and Consumer Informatics: Improvements in Existing Systems

* The complete papers can be accessed in the Yearbook’s full electronic version, provided that permission has been granted by the copyright holder(s)
Best paper selection

Content summaries of*:


Section 7: Bioinformatics

Survey
A. Burgun, O. Bodenreider
Accessing and Integrating Data and Knowledge for Biomedical Research

Synopsis
Y. L. Yip
The Promise of Systems Biology in Clinical Applications

Best paper selection

Content summaries of*:


Luan D, Zai M, Varner JD. Computationally Derived Points of Fragility of a Human Cascade Are Consistent with Current Therapeutic Strategies. PLoS Computational Biology 2007;3(7):e142


Reviews
C. Lovis
Traceability in Healthcare: Crossing Boundaries

R. Meyer, P. Degoulet
Assessing the Capital Efficiency of Healthcare Information Technologies Investments: an Econometric Perspective

S. M. Meyestre, G. K. Savova, K. C. Kipper-Schuler, J. F. Hurdle
Extracting Information from Textual Documents in the Electronic Health Record: a Review of Recent Research

Research & Education

M. Altwajiri, B. Aldosari
Health Informatics Master Program at King Saud bin Abdulaziz University for Health Sciences, Riyadh, Saudi Arabia

* The complete papers can be accessed in the Yearbook’s full electronic version, provided that permission has been granted by the copyright holder(s)
R. A. Greenes, S. Panchanathan, V. Patel, H. Silverman, E. H. Shortliffe
Biomedical Informatics in the Desert - A New and Unique Program at Arizona State University 150

W. Hersh
Health and Biomedical Informatics: Opportunities and Challenges for a Twenty-First Century Profession and its Education 157

History of Medical Informatics
Original Papers
D.A.B. Lindberg, B.L. Humphreys
Rising Expectations: Access to Biomedical Information 165

M. Tallberg
25 years in a nutshell - IMIA-NI, 1982 - 2007 173

Classic Paper Selection
Content summaries of*:

IMIA/UMIT Award Lecture
Editorial
A. Geissbuhler, E. Ammenwerth, N. Lorenzi, S. Miksch
A Life for Health Informatics 181

J. H. van Bemmel
Reflections on Curiosity 183

Information on IMIA
Information on IMIA 189
Honorary Fellows 192
National and Corresponding Members 193
Institutional Members 194
Addresses of IMIA Member Societies 197
Information on IMIA Working Groups and Special Interest Groups 209

Information on IMIA Regions
Information on APAMI (Asia Pacific Association for Medical Informatics) 223
Information on Helina (African Region) 224
Information on IMIA-IAC (Federation of Health Societies in Latin America) 226
Information on North-American Medical Informatics (NAMI) 228
Information on EFMI (European Federation For Medical Informatics) 233
Information on EFMI Working Groups 235

Impressum
The IMIA Yearbook of Medical Informatics-Objectives, Contents, Formats 245
Contributors 247

* The complete papers can be accessed in the Yearbook’s full electronic version, provided that permission has been granted by the copyright holder(s)