EFMI Annual Report 2016

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MIE 2016 in Munich

President
Christian Lovis, MD, Professor
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Tel: +47 90971904
Email: christian.lovis@hcuge.ch

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Tel: +49 341 97 16107
Email: alfred.winter@imise.uni-leipzig.de

Vice President
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300223, Timisoara, Romania
Tel. +40 256403234
Email: lacramioara.stoicu-tivadar@aut.upt.ro
1 Mission and Objectives

1.1 Objectives
The European Federation for Medical Informatics (EFMI) is the leading nonprofit organization in biomedical and health informatics in Europe. The Federation comprises 30 national societies and includes an exceptional network of experts and stakeholders in health, care, IT and its societal dimensions; supported by 16 topic working groups ranging from human factors, to security and natural language processing.

EFMI is committed to health for all underpinned by information and communication technology.

The objectives when founded in 1976 were:

- To advance international co-operation and dissemination of information in Medical Informatics on a European basis;
- To promote high standards in the application of medical informatics;
- To promote research and development in medical informatics;
- To encourage high standards in education in medical informatics;
- To function as the autonomous European Regional Council of IMIA.

1.2 Activities and Governance
All European countries, i.e. countries within the European Region of the World Health Organization are entitled to be represented in EFMI by a suitable Medical Informatics Society. The term medical informatics is used to include the whole spectrum of Biomedical, Health-/Socialcare Informatics and all disciplines concerned with Biomedical, Health-/Socialcare and Informatics.

The organization operates with a minimum of bureaucratic overhead. Each national society supports the federation by sending and paying for a representative to participate in the decisions of the Federation’s Council, the membership assembly. Apart from the Council, an elected board consisting of nine members governs EFMI. English has been adopted as the official language, although simultaneous translation is often provided for congresses in non-English speaking countries.

1.3 Membership and Organization
Currently 30 countries have joined the Federation, including Armenia, Austria, Belgium, Bosnia Herzegovina, Croatia, Cyprus, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Norway, Poland, Portugal, Romania, Serbia, Slovenia, Spain, Sweden, Switzerland, The Czech Republic, The Netherlands, The Republic of Moldova, The Russian Federation, The United Kingdom, Turkey, and Ukraine. All representative societies in countries within the European Region of the WHO are entitled to apply for membership.

EFMI is also open for institutional membership. Typical institutions, which become EFMI members, include universities, research organizations, federations, companies and organizations. Currently, 12 organizations have become institutional members of EFMI: 8 academic institutions, public or private organization, non-profit organization and 4 industrial and corporate organizations.

EFMI has a long tradition in working groups (WG). 16 WGs are organizing and supporting events and projects on a European basis but also worldwide in close co-operation with national and international WGs and institutions. EFMI does not offer personal membership except for the working groups.
2 Executive Board

2.1 Executive Board Members

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Time Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lovis, Christian</td>
<td>President</td>
<td>MIE2016 through MIE2018</td>
</tr>
<tr>
<td>Stoicu-Tivadar, Lacramioara</td>
<td>Vice President</td>
<td>MIE2014 through MIE2018</td>
</tr>
<tr>
<td>Moen, Anne</td>
<td>Past President</td>
<td>MIE2016 through MIE2018</td>
</tr>
<tr>
<td>Winter, Alfred</td>
<td>Secretary</td>
<td>MIE2014 through MIE2018</td>
</tr>
<tr>
<td>Nordberg, Ragnar</td>
<td>Treasurer</td>
<td>MIE2015 through STC2019</td>
</tr>
<tr>
<td>Chronaki, Catherine</td>
<td>Institutions Membership Officer</td>
<td>MIE2016 through MIE2018</td>
</tr>
<tr>
<td>Hörbst, Alexander</td>
<td>Press &amp; Information Officer</td>
<td>MIE2012 through STC2019</td>
</tr>
<tr>
<td>de Lusignan, Simon</td>
<td>Publication Officer</td>
<td>MIE2015 through STC2019</td>
</tr>
<tr>
<td>Hercigonja-Szekeres, Mira</td>
<td>Executive Officer</td>
<td>MIE2015 through STC2019</td>
</tr>
</tbody>
</table>

The reports of the individual board members are presented in Appendix 2.

2.2 Synopsis of board activities

In 2016 the board had 9 meetings, 7 of them have been virtual meetings. The main topics discussed have been:

- EFMI Strategy
- EFMI 40th anniversary
- EFMI publication strategy
  - Methods of Information in Medicine
- Accreditation and Certification
- EFMI Working groups
- EFMI conferences
  - Schedule of MIE and STC conferences
  - MIE conferences 2015, 2016, 2017, 2018
  - STC conferences 2016, 2017, 2018
- EFMI organization
  - Budget planning and amendment
  - Honorary Fellows
  - Umbrella contract with WebTek
  - Preparation of Council meetings
  - Elections of Board members
  - EFMI Website & Facebook, Marketing
  - EFMI Archive
  - Membership situation (national members, institutional members)
- EFMI external relationships
  - IMIA & Collaboration of Working groups
  - HIMSS & eHealth Week
  - EFMI Participation in Erasmus + and Horizon2020 projects and Active and Healthy Aging
In order to keep the board’s work effective, the board again met frequently and a continuous documentation on participation and open activities has been maintained.

- pHealth 2016
- Relation to other conferences
## 3 National Members

<table>
<thead>
<tr>
<th>Country</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Armenia</td>
<td>Armenian Association of Telemedicine (AATM)</td>
</tr>
<tr>
<td>Austria</td>
<td>Working Group Medical Informatics (AKMI) of the Austrian Society for Biomedical Engineering ÖGBMT and of the Austrian Computer Society (OCG)</td>
</tr>
<tr>
<td>Belgium</td>
<td>Belgian Medical Informatics Association</td>
</tr>
<tr>
<td>Bosnia Herzegovina</td>
<td>Society for Medical Informatics of Bosnia &amp; Herzegovina</td>
</tr>
<tr>
<td>Croatia</td>
<td>Croatian Society for Medical Informatics (CroSMI)</td>
</tr>
<tr>
<td>Cyprus</td>
<td>The Cyprus Society of Medical Informatics</td>
</tr>
<tr>
<td>Finland</td>
<td>Finnish Social and Health Informatics Association (FinnSHIA)</td>
</tr>
<tr>
<td>France</td>
<td>French Medical Informatics Association (AIM)</td>
</tr>
<tr>
<td>Germany</td>
<td>German Association for Medical Informatics, Biometry and Epidemiology (GMDS)</td>
</tr>
<tr>
<td>Greece</td>
<td>Greek Biomedical and Health Informatics Association</td>
</tr>
<tr>
<td>Hungary</td>
<td>National Institute for Strategic Health Research</td>
</tr>
<tr>
<td>Iceland</td>
<td>A special interest group of health informatics within the Icelandic Society of Information Processing</td>
</tr>
<tr>
<td>Ireland</td>
<td>Healthcare Informatics Society of Ireland</td>
</tr>
<tr>
<td>Israel</td>
<td>The Israeli Association for Medical Informatics</td>
</tr>
<tr>
<td>Norway</td>
<td>Norwegian Society for Medical Informatics</td>
</tr>
<tr>
<td>Poland</td>
<td>The Technical University of Lodz (Politechnika Łódzka)</td>
</tr>
<tr>
<td>Portugal</td>
<td>Faculty of Medicine of Oporto University</td>
</tr>
<tr>
<td>Romania</td>
<td>Romanian Society of Medical Informatics</td>
</tr>
<tr>
<td>Serbia</td>
<td>Association for Medical Informatics of Serbia</td>
</tr>
<tr>
<td>Slovenia</td>
<td>Slovenian Medical Informatics Association</td>
</tr>
<tr>
<td>Spain</td>
<td>Spanish Society of Health Informatics</td>
</tr>
<tr>
<td>Sweden</td>
<td>Swedish Federation for Medical Informatics (SFMI)</td>
</tr>
<tr>
<td>Switzerland</td>
<td>Swiss Society for Medical Informatics</td>
</tr>
<tr>
<td>The Czech Republic</td>
<td>Czech Society for Biomedical Engineering and Medical Informatics</td>
</tr>
<tr>
<td>The Netherlands</td>
<td>Society for Healthcare Informatics (VMBI)</td>
</tr>
<tr>
<td>The Republic of Moldova</td>
<td>State Medical and Pharmaceutical University &quot;N. Testemitanu&quot;</td>
</tr>
<tr>
<td>The Russian Federation</td>
<td>National Association of Medical Informatics (NAMI)</td>
</tr>
<tr>
<td>The United Kingdom</td>
<td>British Computer Society</td>
</tr>
<tr>
<td>Turkey</td>
<td>Turkish Medical Informatics Association (TurkMIA)</td>
</tr>
<tr>
<td>Ukraine</td>
<td>The Ukraine Association for &quot;Computer Medicine&quot; (UACM)</td>
</tr>
</tbody>
</table>

Full reports of the EFMI national members are presented in appendix 4.
4 Institutional Members

Institutional Members of EFMI are academic institutions, public or private organizations, non-profit institutions as well as industrial and corporate organizations.

4.1 Academic institutions, public or private organisations, non-profit institutions

- HL7 – Health Level Seven International
- HON – Health On the Net Foundation
- National and Kapodistrian University of Athens – HIL
- Politecnico di Milano – eHealthLAB
- Dipartimento di Ingegneria Industriale e dell'Informazione, Università degli Studi di Pavia
- Division of Medical Information Sciences of University Hospitals of Geneva (HUG)
- University of Trieste
- The Danish Centre for Health Informatics, Aalborg University (DaCHI)

4.2 Industrial and corporate organisations

- AGFA Health Care
- Case Mix
- GS1 Global Standards One
- IBM Research

4.3 Representatives

The Institutional Members are represented in the Council by electing one representative of the academic institutions or non-profit organizations and one representative of the industrial or corporate organizations. The representatives are:

- Catherine Chronaki (non-profit and academic institutions)
- Dirk Colaert (industrial and for-profit organizations)
## 5 Working Groups

<table>
<thead>
<tr>
<th>Working Group</th>
<th>Chair</th>
<th>Co-Chair</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU - Education</td>
<td>Mantas, John</td>
<td>Hasman, Arie</td>
</tr>
<tr>
<td>EHR - Electronic Health Records</td>
<td>Klein, Gunnar</td>
<td>Kalra, Dipak</td>
</tr>
<tr>
<td>EVAL - Assessment of Health Information Systems</td>
<td>Ammenwerth, Elske</td>
<td>Brender, Jytte; Nykänen, Pirkko</td>
</tr>
<tr>
<td>HIIC - Health Informatics for Interregional Cooperation</td>
<td>Stoicu-Tivadar, Lacramioara</td>
<td></td>
</tr>
<tr>
<td>HIME - Health Information Management Europe</td>
<td>Engelbrecht, Rolf</td>
<td>Händel, Angelika; Nicholson, Lorraine</td>
</tr>
<tr>
<td>HOFMI - Human and Organisational Factors of Medical Informatics</td>
<td>Randell, Rebecca</td>
<td>Marcilly, Romaric</td>
</tr>
<tr>
<td>IDeS - Information and Decision Support in Biomedicine and Health Care</td>
<td>Sonicki, Zdenko</td>
<td>Fišter, Kristina</td>
</tr>
<tr>
<td>LIFOSS - Libre/Free and Open Source Software</td>
<td>Karopka, Thomas</td>
<td></td>
</tr>
<tr>
<td>MCRO/MBDS - Casemix, Resources Management and Outcomes of Care</td>
<td>Hofdijk, Jacob</td>
<td>Roger-Francis, Francis</td>
</tr>
<tr>
<td>MIP - Medical Image Processing</td>
<td>Deserno, Thomas</td>
<td>Dehmeshki, Jamshid</td>
</tr>
<tr>
<td>NLU - Natural Language Understanding</td>
<td>Ruch, Patrick</td>
<td>Gobeill, Julien</td>
</tr>
<tr>
<td>NURSIE - Nursing Informatics in Europe</td>
<td>Weber, Patrick</td>
<td>Bürkle, Thomas</td>
</tr>
<tr>
<td>PCI - Primary Health Care Informatics</td>
<td>de Luisgnan, Simon</td>
<td></td>
</tr>
<tr>
<td>PPD - Personal Portabel Devices</td>
<td>Lhotska, Lenka</td>
<td>Cheshire, Paul; Pharow, Peter</td>
</tr>
<tr>
<td>SSE - Security, Safety and Ethics</td>
<td>Ruotsalainen, Pekka</td>
<td>Delgado, Jaime</td>
</tr>
<tr>
<td>THI - Translational Health Informatics</td>
<td>Shvo / Shabo, Amnon</td>
<td></td>
</tr>
</tbody>
</table>

Full EFMI WGs reports as presented for the IMIA Yearbook is presented as appendix 3.
6  EFMI Council

6.1  National Representatives

<table>
<thead>
<tr>
<th>National Representative</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammenwerth, Elske</td>
<td>Austria</td>
</tr>
<tr>
<td>Bakke, Silje Ljosland</td>
<td>Norway</td>
</tr>
<tr>
<td>Balicer, Ran D</td>
<td>Israel</td>
</tr>
<tr>
<td>Chaltikyan, Georgi</td>
<td>Armenia</td>
</tr>
<tr>
<td>Cleary, Mary</td>
<td>Ireland</td>
</tr>
<tr>
<td>Cornet, Ronald</td>
<td>The Netherlands</td>
</tr>
<tr>
<td>da Costa Pereira, Altamiro</td>
<td>Portugal</td>
</tr>
<tr>
<td>De Clercq, Etienne</td>
<td>Belgium</td>
</tr>
<tr>
<td>de Luisignan, Simon</td>
<td>The United Kingdom</td>
</tr>
<tr>
<td>Hafberg, Anna</td>
<td>Iceland</td>
</tr>
<tr>
<td>Häyrinen, Kristiina</td>
<td>Finland</td>
</tr>
<tr>
<td>Héja, Gergely</td>
<td>Hungary</td>
</tr>
<tr>
<td>Hercigonja-Szekeres, Mira</td>
<td>Croatia</td>
</tr>
<tr>
<td>Kacki, Edward</td>
<td>Poland</td>
</tr>
<tr>
<td>Karlsson, Daniel</td>
<td>Sweden</td>
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<tr>
<td>Lovis, Christian</td>
<td>Switzerland</td>
</tr>
<tr>
<td>Mantas, John</td>
<td>Greece</td>
</tr>
<tr>
<td>Masic, Izet</td>
<td>Bosnia Herzegovina</td>
</tr>
<tr>
<td>Mayorow, Oleg</td>
<td>Ukraine</td>
</tr>
<tr>
<td>Mihalas, George</td>
<td>Romania</td>
</tr>
<tr>
<td>Milic, Natasa</td>
<td>Serbia</td>
</tr>
<tr>
<td>Orel, Andrej</td>
<td>Slovenia</td>
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<td>Parra Calderon, Carlos</td>
<td>Spain</td>
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<tr>
<td>Pattichis, Costas</td>
<td>Cyprus</td>
</tr>
<tr>
<td>Rosioru, Alexandru</td>
<td>The Republic of Moldova</td>
</tr>
<tr>
<td>Saka, Osman</td>
<td>Turkey</td>
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<tr>
<td>Seidl, Libor</td>
<td>The Czech Republic</td>
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<tr>
<td>Seroussi, Brigitte</td>
<td>France</td>
</tr>
<tr>
<td>Shifrin, Michael</td>
<td>The Russian Federation</td>
</tr>
<tr>
<td>Winter, Alfred</td>
<td>Germany</td>
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</tbody>
</table>

¹ As from March 2017
### 6.2 Working Groups

<table>
<thead>
<tr>
<th>Working Group</th>
<th>Representative</th>
</tr>
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<tbody>
<tr>
<td>EDU - Education</td>
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<td>PPD - Personal Portable Devices</td>
<td>Lhotska, Lenka</td>
</tr>
<tr>
<td>SSE - Security, Safety and Ethics</td>
<td>Delgado, Jaime</td>
</tr>
<tr>
<td>THI - Translational Health Informatics</td>
<td>Shvo / Shabo, Amnon</td>
</tr>
</tbody>
</table>

### 6.3 Institutional Members Representatives

<table>
<thead>
<tr>
<th>Representative</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronaki, Catherine</td>
<td>Academic Institutions Representative/ Non Profit</td>
</tr>
<tr>
<td>Colaert, Dirk</td>
<td>Industrial Institutions Representative/ For Profit</td>
</tr>
</tbody>
</table>
## 6.4 Honorary Fellows

<table>
<thead>
<tr>
<th>Name</th>
<th>Year Elected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andersen, Stig Kjaer</td>
<td>elected 2015</td>
</tr>
<tr>
<td>Barber, Barry</td>
<td>elected 1989</td>
</tr>
<tr>
<td>Baud, Robert</td>
<td>elected 2008</td>
</tr>
<tr>
<td>Blobel, Bernd</td>
<td>elected 2014</td>
</tr>
<tr>
<td>Engelbrecht, Rolf</td>
<td>elected 2012</td>
</tr>
<tr>
<td>Gell, Günther</td>
<td>elected 2004</td>
</tr>
<tr>
<td>Hasman, Arie</td>
<td>elected 2010</td>
</tr>
<tr>
<td>Hoëdijk, Jacob</td>
<td>elected 2012</td>
</tr>
<tr>
<td>Mantas, John</td>
<td>elected 2015</td>
</tr>
<tr>
<td>Masic, Izet</td>
<td>elected 2016</td>
</tr>
<tr>
<td>McNair, Peter</td>
<td>elected 2004</td>
</tr>
<tr>
<td>Mihalas, George</td>
<td>elected 2012</td>
</tr>
<tr>
<td>O’Moore, Rory</td>
<td></td>
</tr>
<tr>
<td>Peterson, Hans</td>
<td>elected 1988</td>
</tr>
<tr>
<td>Roger-France, Francis</td>
<td>elected 1991</td>
</tr>
<tr>
<td>Rossing, Niels</td>
<td>elected 1994</td>
</tr>
<tr>
<td>Zvárová, Jana</td>
<td>elected 2014</td>
</tr>
<tr>
<td>Abbott, Bud</td>
<td>elected 1987, passed away 2011</td>
</tr>
<tr>
<td>Anderson, John</td>
<td>elected 1985, passed away 2002</td>
</tr>
<tr>
<td>Bryden, John</td>
<td>elected 2009, passed away 2012</td>
</tr>
<tr>
<td>Grémy, François</td>
<td>elected 1987, passed away 2014</td>
</tr>
<tr>
<td>Hansen, Rolf</td>
<td>elected 1991, passed away 1993</td>
</tr>
<tr>
<td>Jorgensen, Mogens</td>
<td></td>
</tr>
<tr>
<td>Reichert, Assa</td>
<td>elected 2010, passed away 2015</td>
</tr>
<tr>
<td>Reichertz, Peter L.</td>
<td>elected 1985, passed away 1987</td>
</tr>
<tr>
<td>Remond, Antoine</td>
<td>elected 1985, passed away 1998</td>
</tr>
<tr>
<td>Scherrer, Jean-Raoul</td>
<td>elected 2002, passed away 2002</td>
</tr>
<tr>
<td>Wagner, Gustav</td>
<td>elected 1987, passed away 2006</td>
</tr>
<tr>
<td>Weber, Albert</td>
<td>elected 1987, passed away</td>
</tr>
</tbody>
</table>
6.5 Auditing Committee
The Auditing Committee has been elected at the council meeting at MIE 2015 in Madrid:

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammenwerth, Elske</td>
<td></td>
</tr>
<tr>
<td>Chronaki, Catherine</td>
<td></td>
</tr>
<tr>
<td>Cornet, Ronald</td>
<td>Chair</td>
</tr>
</tbody>
</table>

6.6 Ethics Committee Task Force
By a decision of the 73rd EFMI Council, George Mihalas, John Mantas, and Pirkko Nykanen have been nominated to form an “EFMI Committee Task Force”, chaired by George Mihalas.

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mantas, John</td>
<td></td>
</tr>
<tr>
<td>Mihalas, George</td>
<td>Chair</td>
</tr>
<tr>
<td>Nykanen, Pirkko</td>
<td></td>
</tr>
</tbody>
</table>
7 Appendix 1: Statutes

Article 1 NAMES AND AIMS
The name of the association is European Federation for Medical Informatics (EFMI), hereinafter known as EFMI. EFMI is a not-for-profit organization involved with the scientific work on theory and practice of information and communication technology as applied in biomedical sciences and health care in a European context. EFMI facilitates the activities of its member national associations and institutions.

The main objectives of the association are to:
A. Advance international co-operation and dissemination of information in the field of Biomedical and Health Informatics on a European basis;
B. Stimulate the scientific work in this field and the evaluation of its applications;
C. Promote research and development in this field;
D. Encourage high standards in education in this field; and
E. Function as the autonomous European Regional Association of the International Medical Informatics Association (IMIA).

Article 2 SEAT
The seat of the association is in Switzerland at the following address:
Chemin de Maillefer 37, CH-1052 Le Mont-sur-Lausanne, Switzerland.

Article 3 MEMBERSHIP
EFMI shall be open for membership by National Societies from European Countries with objectives compatible with its own, by institutions, organizations and affiliated societies. In general, Europe shall be defined as comprising the countries within the European Region of the World Health Organization. The national boundaries and names adopted shall be those of member states as represented at the United Nations. The EFMI Council shall decide on the admission of Full Members, taking into account the membership arrangements of IMIA, ensuring that EFMI and IMIA have the same European countries as Full Members.

EFMI’s members are obliged to collaborate in a tolerant and peaceful way, transcending nations, cultures, and political or social structures.

3.1 Full Members
In each country, a national scientific, technical society or group of such societies, may become a Full Member with the restriction that there shall be only one Full Member for each country, and that this member shall be representing the national activities in the field of Biomedical and Health Informatics. Only Full Members have the rights to the assets of EFMI.

Each Full Member is entitled to delegate one representative to the Council. Each representative of a Full Member shall be elected by the member society.

Each Full Member shall pay membership annual dues as decided by the Council.

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² accepted at the 72nd EFMI Council, 2014
3.2 Institutional Members
The Council may accept academic institutions, public or private organizations, non-profit institutions as well as industrial and corporate organizations as Members to EFMI, hereinafter called Institutional Members.

The Institutional Members are represented in the Council by electing one representative of the academic institutions or non-profit organizations and one representative of the industrial or corporate organizations. The representatives’ term is two years. The election procedure is monitored by an Officer of the Executive Board. Besides the two representatives, each other Institutional Member may be represented at the Council meetings by ex officio delegates without voting rights.

The membership annual dues of all the Institutional Members are decided by the Council.

3.3 Affiliated Societies
The Council may at any time accept other international societies, organizations or associations as affiliated members of EFMI in order to enhance co-operation in achieving the aims of EFMI, as stated in Article 1.

Such affiliated members have the right of representation in the working groups of EFMI and may be represented at Council meetings by an ex officio delegate without voting rights. A prerequisite for affiliation is that reciprocal arrangements are made by the affiliated member society.

3.4 Honorary Fellows
In order to enhance and promote the work of EFMI, the Council is empowered to elect individuals, who have made a distinguished contribution to the field of Biomedical and Health Informatics or who have contributed significantly to the activities respectively objectives of EFMI, to be associated with EFMI as Honorary Fellows. Such Honorary Fellows shall have the right of attending and speaking at the Council, but shall not be entitled to vote, except for the admission of other Honorary Fellows.

3.5 Admission
The Council shall decide on the admission of Full Members, Honorary Fellows, Affiliated Societies and Institutional Members upon recommendation of a Full Member or the EFMI Executive Board. All admissions must be accepted by a majority vote of the EFMI Council.

3.6 Suspension
The membership of Full Members and Institutional Members shall be automatically suspended under the present conditions:

A. For being more than two years in arrears with payment of membership annual dues, including the current year;
B. A written statement has been sent to the member at the last known address two months before suspension, with a copy to the national representative or legal representative.
C. For a long-term inactivity as defined in the Bylaws.

The suspension means that the Full Member or Institutional Member has temporarily lost the rights of a Full Member or Institutional Member, but is allowed to take the role of an observer. As such, a representative can attend the Council Meeting as a delegate, but is without voting rights.

The suspension is automatically cancelled when the payment of membership annual dues, including the years of suspension, is received in the bank account of EFMI.
3.7 Termination
The membership of Full Members or Institutional Members shall be terminated by:

A. Declaration of the member, the resignation to take effect from the beginning of the ensuing year;
B. A two-thirds majority of all Full Members and the two representatives of the Institutional Members:
   i. for a serious offence;
   ii. if the conditions of membership are no longer fulfilled;
   iii. for being more than two years in arrears with payment of membership dues;
   iv. for a long-term inactivity as defined in the Bylaws.
C. A simple majority of all Full Members and the two representatives of the Institutional Members:
   if the member is more than three years in arrears with the payment of membership dues.

Article 4 OPERATION
The main bodies of EFMI shall be in descending order of authority: the Council, the Executive Board, and the Working Groups.

4.1 Council
The Council shall be composed of one representative from each Full Member, the Members of the Executive Board, the Chairpersons of the Working Groups, the Honorary Fellows and two representatives of the Institutional Members.

4.1.1 Authority
A. The Council is the supreme authority of EFMI.
B. The Council shall determine fundamental policy, adopt the programme of activities, hear and approve the reports of any subordinate bodies it may have established, decide on admission and exclusion of members, elect the President and the Members of the Executive Board, adopt and revise statutes and bylaws, adopt the budget, review the incomes and expenditures, accept the audit reports and approve the annual accounts.
C. The Council may establish subordinate bodies for clearly defined permanent or temporary purposes. It shall decide on the composition, the terms of reference and the duration of existence of such bodies.
D. The Council may establish Working Groups to elaborate on specific domains of knowledge in the field of Biomedical and Health Informatics.
E. The Council will elect an Auditing Committee that consists of 3 members, one of them elected as chair person. Each committee member will be elected for a period of 3 years and can be re-elected once, for a total duration of 6 years. The Auditing Committee will review and audit all EFMI's monetary and financial statements in correspondence to the Council approved budget. The committee will issue a written report to be presented at the Council meeting at least once in every calendar/financial year.
F. The Council shall take decisions necessary for the implementation of the main objectives of EFMI.

4.1.2 Quorum, Majority and voting rights
A. Quorum. The Council shall be able to conduct business only if at least half of the Full Members and the two representatives of the Institutional Members are present. Proxies
(Article 4.1.2.C) are counted for attaining the Quorum. If this is not the case, another assembly of the Council shall be convened within three months, having ensured that all members can be given at least one month’s notice in advance. During that meeting the Council shall operate without any quorum restriction.

B. Voting Rights. Only Full Members and the two representatives of the Institutional Members have voting rights in the Council for electing members of the Executive Board, approving the budget, approving future locations/organizers for Medical Informatics Europe Conferences (MIE) as well as Special Topic Conferences (STC) and accepting new Members to EFMI. The Honorary Fellows vote for accepting new Honorary Fellows. The Working Group chairs may vote for accepting the reports of the WGs, establishing new WGs, endorsing chairs/co-chairs. For all other issues all Council members may vote based on the corresponding articles of the statutes and corresponding bylaws.

C. Proxy. Only Full Members may give proxy. A representative of a Full Member may be given proxy to vote for a maximum of two other Full Members. For electing Members of the Executive Board no proxies are accepted.

D. Single vote. Each representative of Full Members has one vote unless he is recipient of proxy/proxies (see 4.1.2.C). Each other Council member has only one vote.

E. Simple majority. Decisions of Council shall be taken by a simple majority of those members present or represented by proxy by those who have the right to vote, except otherwise specified in the statutes.

F. Waiving vote or abstention. On a particular issue addressed by the Council, a member may waive the voting right. However, the abstention from voting shall be noted and the member shall be counted for the quorum.

G. Electronic and Postal Voting. The President may authorise the Secretary to conduct a postal or an electronic ballot on some issue if a quorum cannot be achieved at a Council meeting, or if other urgent business requires the attention of all Council members with voting rights between scheduled meetings. In this instance a formal proposal shall be put to each member with a copy to the Chair of the corresponding Full Member and the Institutional Members at their official address. At least one month shall be allowed for replies to be received and they shall be counted as if they were votes in a meeting of Council. If the voting is deemed to require confidentiality and in particular anonymity of the casting votes, as may be the case for election of Members of the Executive Board, a postal ballot shall be given with an inner unmarked sealed envelope which contains the vote of the Member with no sender given and an enclosed signed letter indicating who issued the vote. Based on the rules for a confidential postal vote a similar system will be implemented for electronic votes guaranteeing anonymity.

In the event of any difference in a view being expressed between a Full Members or Institutional member representative and information sent by a letter from the Secretary or Chair of the same Full Member or Institutional Member, the Full Member or Institutional Member representative’s views will be taken as subordinate to their Full Member or Institutional Member. The view as expressed by the Full Member’s or Institutional Member’s Chair will prevail.

4.1.3 Meetings

A. The Council shall decide on the dates and places of its meetings, but there shall be at least one Council Meeting each year. It may, however, be convened at any time if the President, after consultation with the Executive Board, deems it necessary.

B. The Secretary shall be supplied with an up-to-date address for each Member of the Council and shall issue minutes and agendas to these addresses. The dates of Council Meetings shall be notified to Council members at least two months in advance of each meeting with a request for items for the agenda. The agenda will be issued one month before the meeting.
C. The minutes of meetings shall be prepared by the Secretary, endorsed by the President, and approved by the Council at the next meeting.

4.2 The Executive Board

The Executive Board shall execute and implement the decisions taken by the Council. The Executive Board is liable to the Council.

4.2.1 Composition and Election

A. The Council shall elect an Executive Board consisting of President, Vice-President, Past President, Secretary, Treasurer, and a number of Officers. Allocation in elected Officers’ roles and responsibilities as well as additional Officers is to be justified by a Council decision. Each Officer shall have tasks and duties assigned by the Council.

All members of the Executive Board shall be members of Council at the time of their election, with the possible exception of the Past President. Members of National Associations (Full Members of EFMI) nominated by its corresponding National Association may become candidates for an Executive Board position. In the latter case a 2/3 majority vote is required to accept the nomination.

B. Election of President

The Council elects every two years a President-elect, who takes up the position of the President for a term of two years. The election takes place at least three months before the end of the term of the current President. Candidates for the position of President-elect should be members of the Council or the Executive Board who served for at least four years in total.

When the President-elect takes up the position of the President, the former President becomes Past President and serves the Executive Board for two years.

The President is responsible for the electoral procedure. The President initiates the procedure at least three months before the expiration date by informing all Members of the Council and calling for tender for the position of President-elect. The election is held during the Council meeting by secret ballot. The person that receives the majority vote of the present Council is elected to the position of the President-elect. The President-elect attends all Executive Board and Council meetings without voting rights.

C. The positions of Secretary and Treasurer are elected by the Council for a period of four years. Their term can be extended for a maximum of another one term.

D. The Vice-President and the Officers are elected directly by the Council for two years. The term of the Vice-President and the Officers can be extended, if re-elected, for a maximum of another two consecutive terms in the same or another Executive Board position.

E. The Past President represents EFMI in IMIA and has, while EFMI is accepted as an IMIA Regional Member under the IMIA Bylaws, the right of attendance and voting at the IMIA Board and General Assembly. The Past President after serving for two years in his/her position ceases to be a member of the Executive Board.

F. The Members of the Executive Board shall commit themselves to assist to all the meetings of the committee.

G. If a Member of the Executive Board resigns or the office is terminated for any reason, a successor shall be elected for the unexpired portion of the term. In case of emergency, the Executive Board shall be entitled to elect a temporary successor for the period until the next Council meeting. Incomplete terms shall not count as complete term. For unexpected and force majeure circumstances the Council may decide with 2/3 majority of all Council members to extend the term of any Board member.

H. A Member of the Executive Board can be discharged for misdemeanour by a two-thirds vote of the Full Members and two representatives of the Institutional Members.
4.2.2 Authority
A. The Executive Board shall conduct the day-to-day operations of EFMI.
B. The President applies the policies of EFMI, represents EFMI and convenes and conducts both the Council and the Executive Board meetings. The President defines the agenda of the meetings, moves proposals for voting, and oversees the execution of all resolutions.
C. The Vice-President replaces the President whenever the President is absent or incapacitated. The Vice-President is responsible for initiating Working Groups and for monitoring the progress of existing ones.
D. The Past President represents EFMI in IMIA Executive Board and its meetings.
E. The Secretary is responsible for Membership of EFMI, supervises voting procedures, keeps records for each Member of the Council, and keeps minutes, resolutions and archives of the Council and the Executive Board meetings.
F. The Treasurer keeps records of payments of membership dues, reports to the Council and Executive Board about overdue payments from Full and Institutional Members, and initiates the procedure of suspension and termination of membership. The Treasurer keeps records of the bank accounts of EFMI and provides financial reports to the President and the Secretary during the Executive Board meetings. The bank accounts are held in the country where the EFMI registered office is located. The Treasurer prepares and reports the annual budgets and accounts to the EFMI Council and keeps all documentation, submits them for auditing, and reports the outcome of these audits to the Council and Executive Board. The Treasurer will cooperate with the Auditing Committee (Article 4.1.1.E) and supply it with all relevant materials and information.
G. The Officers authority and duties will be defined in the Bylaws.

4.2.3 Meetings
A. The President and the Members of the Executive Board shall decide on the dates and places of the Executive Board meetings, and shall meet at least twice each year.
B. The minutes of meetings shall be prepared by the Secretary, endorsed by the President, and approved by the Council and the Executive Board.

4.3 EFMI Working Groups
A. An EFMI Working Group is established by a Council decision upon the submission of a proposal by (a) Council member(s) describing the scope, objectives, outcomes, and the timeline of the deliverables of the Working Group. The term of a Working Group will be decided by the Council.
B. Each Working Group shall be composed by experts of the specific domain working together in a specified area. Membership in a Working Group is neither restricted to EFMI members nor EFMI countries.
C. A Working Group may develop workshops, cooperate with other Work Group(s) to propose Special Topic Conferences, produce scientific documents and papers, and whatever else that promotes the domain of the Working Group as specified by the Council decision of its establishment.
D. A Working Group operates under the Council and the Executive Board. Each Working Group is chaired by a person endorsed by the Council. The Chairperson of the Working Group may propose a co-chairperson (endorsed by the Council) among the working group membership. Consequently, the chairperson attends the meetings of the Council. The co-chair may act as a proxy to the chairperson in the Council, whenever the chairperson is not attending.
E. The Working Group Chairs shall communicate Working Group activities to the Vice-President, who monitors and encourages activities in all Working Groups. The Chairperson of the Working Group shall submit a report to the EFMI Executive Board via the Vice
President once a year, reporting previous and forthcoming activities and deliverables. The report is examined by the Vice-President and the Vice-President reports to the Executive Board and to the Council about the progress of each Working Group.

F. If no report has been delivered on two consecutive occasions, the Working Group shall automatically be dissolved.

G. The term of office of the Working Group Chairperson is four years but can be renewed for one further four-year period.

**Article 5 FINANCE**

EFMI shall be financed by membership annual dues from Full Members and Institutional Members, by royalties from publications, interest on funds, contributions and surplus from events such as Congresses, Conferences and Symposia including funds arising from activities of subordinate bodies.

The Council shall decide on the scale of annual membership dues for Full Members and Institutional Members for the ensuing year. It may accept donations and subsidies.

**Article 6 LIABILITIES**

In the event of dissolution of EFMI or as contributions to a financial loss in any year, no Full Member shall be held liable to pay a sum in excess of an amount equivalent to twice the annual membership dues to EFMI.

**Article 7 LIQUIDATION**

Any proposal to dissolve EFMI shall be brought to the notice of all Members of the Council at least three months in advance of the Council meeting, at which it will be discussed. Approval of such a proposal shall require a two-thirds majority of all the Full Members.

If the two-thirds majority is achieved for liquidation, the Council shall then decide by a simple majority of the full members on the method of liquidation and the disposal of its assets which may be given to the Full Members’ National Societies or other purpose(s).

**Article 8 COMMITMENTS**

Any documents committing EFMI to expenditure or other liability shall be signed by two members of the Executive Board, normally the President and the Secretary, in accordance with and subsequent to an explicit minute action within a Meeting of the Council or an Executive Board meeting.

All legal actions, whether as plaintiff or as defendant, shall be the responsibility of the Executive Board represented by the President or his legal representative.

**Article 9 OFFICIAL LANGUAGE**

The official language for conducting business of EFMI is English. Therefore, all minutes are kept and recorded in English as well as the communication with Members and during Board and Council meetings are conducted in English.
Article 10  BYLAWS
The Bylaws are the internal rules of operation implementing the EFMI policy and are approved by the Council. Therefore, procedures and operating actions related to the above mentioned Articles not provided within the Statutes will be defined and detailed in the Bylaws.

Article 11  APPLICABLE LAW
Anything not provided for in these Statutes and the Bylaws, and any dispute shall be resolved in accordance with the corresponding Swiss legal framework.

Article 12  AMENDMENT
All proposals for modification of these statutes must be submitted by at least one Full Member. Any such proposal shall be brought to the notice of all Members of Council at least one month in advance of the Council meeting at which it will be discussed. Approval of such proposals shall require a two-thirds majority of all Full Members.

DECISIONS
The statutes were adopted at Council Meeting in Toulouse, 23 March, 1977.
Amended at Council Meeting in Ljubljana, 13 March, 1999.
Suggested Amendments at Executive Board Meeting in Geneva, 26 August, 2005.
Extended Editing at Executive Board Meeting in Madrid, 4-5 March, 2007.
Amended at Council Meeting in Brijuni, Croatia in 30May, 2007.
Approval for submission to the Court at Exec. Board meeting in Antalya, 17 November, 2007.
Approved by the Council in the Council meeting in Copenhagen on 19 Aug, 2013.
Approved by the Council in the Council meeting in Budapest on 26 April, 2014.
Approved by the Council in the Council meeting in Istanbul on 31 August, 2014.
8 Appendix 2: Full reports from the Board Members

8.1 President – Anne Moen / Christian Lovis

8.1.1 Anne Moen (January to August 2016)

Activities 2016
Held regular virtual Board meetings during the year, held 2 EFMI Council meetings and conducted a SWOT analysis, accepted by the 74th Council as part of development of EFMI Strategy. Provided support to the EFMI colleagues organizing HEC2016, by participation in the SPC meeting as well as several conference calls leading up to the conference.
The financial situation of EFMI is quite good, and nice income in 2016.
Negotiated renewal of the long term agreement with Webtek – OCR system.
Organized several EFMI 40 – anniversary activities; celebrating the anniversary of EFMI. Collaboration with IMIA colleagues in several presentations related to the history of Medical Informatics. EFMI - Ethics task force – followed up the work, and it was decided to go with the revised IMIA code of ethics.
Continued to support initiatives to promote young scientists, and younger colleagues were active members of the SPCs and LOCs to give exposure, transfer knowledge, and offer opportunity to gain experiences.
MIE2017 – bid accepted from the British Computer Society and Colleagues at the University of Manchester. Organized as part of Informatics for Health 2017.
MIE2018 – organized for BID by the Swedish Society for Medical Informatics. – conference will be in the spring 2018, and the STC2018 – may be organized in the fall 2018 (Thomas Deserno and colleagues in Working group on Digital Imaging accepted to change, partly also because of Thomas Deserno’s move).

Outreach activities 2016
Invited as expert to the Horizon 2020 projects; “eStandards” workshop in Crete, March 2016.
Organized the plenary panel at STC2017: “eHealth Consumers in the age of hyper-personalization”, which lead to lively discussion and much participation.
Member of the eHealth 2016 program committee, where EFMI is a collaborating partner with HIMSS. The 2016 eHealth Week will be in Amsterdam in June 2016. In addition to me National Representative to the EFMI Council from the Netherlands (hosting country) Ronald Cornet participates in the committee. Planned and hosted the partner event “In Search of a Digital Health Compass: My Data, My Decision, Our ePower” (http://www.ehealthweek.org/ehome/128630/hl7-efmi-sessions/?& during the eHealth week 2016 – in Amsterdam, the Netherlands. This was a collaborative activity, hosted by EFMI, HL7, HIMSS. June 9th, 2016.
Participated in the Lisbon – eHealth Summer week “In search of a Digital Health Compass - Patient Empowerment”, June 28th, 2016.
Participated in the meeting of the Trans-O-Mim advisory group 29. August 2016
EFMI representative to the EU eHealth Stakeholder group 2016 – 201.

8.1.2 Christian Lovis (September to December 2016)

Functional activities

- Holding of the regular virtual Board meetings;
Management of the usual/regular points raised;
Representation activities as expert for the EU, etc.
Signed a few contracts, such as Webtek – OCR, Assistant to the board – Patrick Weber;
Support for STC2017 in promoting board/council meeting in Israel.

Specific activities
- Launched the EFMI accreditation activity;
- Launched the EFMI social networking activity;
- Launched preliminary discussions with HIMSS;
- Launched preliminary discussions with the Standing Committee of European Doctors (CPME) (www.cpme.eu);

8.2 Vice President - Lăcrămioara Stoicu-Tivadar
VP activities during 2016 include:
- Participation to face to face and virtual Board meetings – supporting current activities related to EFMI participation in events, strategy, EFMI promotion on different media, indexation of EFMI conference publications, increasing cooperation with similar organizations.
- Updating EFMI WGs list and activities.
- Status end of 2016: 14 from 16 WGs updated activity, one is pending one is proposed for suspension.
- WG chairs meetings to support functional activities during STC in Paris and MIE in Munich.
- Results: decisions on future activities, asking for financial support for active WGs, starting discussions on what active WGs mean, starting marketing activities (cards, short movies, WGs presentations, webinars investigations), finalising the WGs poster and presenting it in MIE2016.
- Developments in relation with EFMI strategy (based on a synthesis of WGs proposals).
- Supporting STC2016 and MIE2016 conferences, scientifically, organizing activities in relation with WGs and communicating with WG chairs for contributions, contributing to EFMI 40th anniversary celebration, moderating Q&A session.
- Supporting 3 WGs – HIMS, EDU, PPD - organizing STC2017 in Israel
- Supporting EFMI advertise on social media.

Main activities for 2017: consolidating WGs activity through: financial support, webinars/faceto face presentations, and marketing, continuing cooperation with IMIA WGs.

8.3 Past President - Patrick Weber / Anne Moen

8.3.1 Patrick Weber (January to August 2016)
The Past President represents EFMI in IMIA.

Meetings
Board meeting was conducted in Paris during STC conference in April and in Munich together with the General Assembly in August during MIE.
Finance
The financial forecast is not good. Need to find activities which will create revenue for IMIA

Website
The new website www.imia-medinfo.org is fully developed.

Membership
SWOT analyses for new members – reason why they should be members – available on the web. Many good reasons – should be an inspiration for recruitment. Will be sent to WGs, member societies and academic members for comments and parts will be uploaded on the web for inspiration.

AHIMA, IFIMA, HIMSS
Work is in process to have better understanding and collaboration the these external organizations. A workshop can be organized during MedInfo 2017 under this subject. IMIA need to be stronger and closed relation should be established between at least both boards.

Collaboration between EFMI and IMIA working groups
Work of WG collaboration will continue.

MedInfo
MedInfo 2017 August 21st to 25th in Xiamen
MedInfo 2019 will be organized by France in Lyon. August 26th to 30th 2019
Bid for MedInfo 2021 is open until May 1st 2017 decision will be taken during GA in Xiamen

8.3.2 Anne Moen (September to December 2016)

IMIA – EFMI Activities

Collaboration between EFMI and IMIA
Collaboration of the EFMI and IMIA WG collaboration will continue. Accreditation of Health Informatics educational offerings is another example of IMIA-EFMI collaboration to offer professional accreditation, and at the same time ensure more regional relevance and a strong accreditation set ups.

MedInfo Conferences
MedInfo 2017 August 21st to 25th will probably be hosted in China. The Scientific program is well underway. At the moment, the exact location will be confirmed.
MedInfo 2019 will be organized by France in Lyon. August 26th to 30th 2019
Bid for MedInfo 2021 is open; a search and review committee will be will appointed and the decision to be taken during GA during MedInfo2017

Outreach
Participated in the following outreach activities this fall semester;

- ACMI special session, “Active Citizens”, contribution to the 40th anniversary session during AMIA2016, November 13th 2016,
- eHIN 2017 in Oslo, Norway November “Can patient summaries advance digital health literacy and assist collaboration of patients and their families with the care team?” November 16th 2016
• WoHIT2016 in Barcelona, “My digital health compass: gender challenges?” 22\textsuperscript{nd} November, 2016
• Invited expert to the Horizon 2020 project “Open Medicines” workshop, Stockholm, 20\textsuperscript{th} December 2016.

In addition I am member of the EU eHealth stakeholder group – and serve as rapporteur “Citizen and Health Data”. Gave a presentation on “Citizen and Health Data” to the EU eHealth Network subgroup the multiannual work programme 2018-2021

Meeting of IMIA
Participated in the General Assembly in August during MIE2016, and in the first board meeting of 2017 held in Victoria BC, Canada – in conjunction with the ITHC conference.

IMIA Membership, financial situation,
The financial forecast for IMIA is not good, seeking to increase membership, e.g., diversify category of “Institutional Members” to attract academic members, and find other revenue generating activities for IMIA. SWOT analyses– reason why become members of IMIA – will be circulated for comments and parts will be uploaded on the web for inspiration.

Website
The new website www.imia-medinfo.org is fully developed.

8.4 Secretary - Alfred Winter
• Maintaining the EFMI Archive
• Organizing and journalizing board meetings: For details see “Synopsis of board activities” before.
• Organizing and journalizing council meetings.
• Organizing and filing membership matters.
• Beginning with scanning paper documents of the EFMI Paper-Archive.
• Member of HEC/MIE 2016 LOC.
• Editing this EFMI report.

8.5 Treasurer - Ragnar Nordberg

The EFMI 2016 has been a year with very low costs and with very good income. See table 3. The low expenses are derived from an extended use of Skype instead of physical meetings and much shorter board / council meetings in connection with the MIE and the STC meetings. The income side benefited from a good willingness to pay of the EFMI Institutional members as well as many of the EFMI national members. On top of this came the MIE 2016 which was an excellent conference with a swift payment of the contracted amount.

The fee situations for national and institutional members are included in this report. See Table 1 and 2. As treasurer I urge you to be meticulous to update name and address, including e-mail address, to the contact person in your organization because we do send, among other membership stuff, the invoices by e-mail. Please check and, if necessary, update on the EFMI web site. This is also important for the institutional members. If you do not want to advertise your e-mail address on the web you can send it to ragnar.nordberg@jmprd.se.

Members with a negative balance equal or higher than 200 euros are kindly requested to regularize their situation as soon as possible (preferably before the council meeting in Manchester). If this is not done the council will end their EFMI membership. If you have special
problems in your country with the EFMI membership, we urge you to contact the chairman for EFMI or the EFMI treasurer.
A budget proposal for 2018 has been presented to the board and council meetings in Manchester.

8.6 Institutions Membership Officer - Christian Lovis / Catherine Chronaki

8.6.1 Christian Lovis (January to August 2016)
There have been no direct specific activities during that period with the exception of attending EFMI events at STC2016, the 6th International Public Health policy conference in Jerusalem and at the consumer driven Food Scanner Price as expert at the EU H2020 framework. Attending the WoHIT conference in Amsterdam and chair of the CDA panel as well as co presenter of My digital health compass. Keynote on Bigdata at NI2016. Joint governmental research commission in Korea in July 2016.

8.6.2 Catherine Chronaki (September to December 2016)
Several outreach activities raising visibility of EFMI took place in this period including organization of workshops, namely:

- eHealth Forum 2016, Oct 26-28, 2016, Digital Health Compass: Indispensable for patients, health professionals, and informal givers; Wednesday Oct 26, 2016, 13:00-14:30
- eHIN2016, November Oslo, Norway; Speech: Can Patient summaries leverage HL7 FHIR to unlock the power of data and drive digital health innovation?
- WoHIT2016, Barcelona; speech: My digital health compass: gender challenges? November 22, 2016, 11:00-12:30; Speech: Digital health compass: leveraging my health data?

There was also engagement of EFMI leadership in the activities of institutional members and active participation in board conference calls and strategy discussions. The aim is to strengthen cooperation among national societies, working groups and institutional members.
I also served on the scientific committee of Informatics for Health 2017.
For the first semester of 2017, further outreach was planned, including workshops for medInfo2017. In addition, elections will be scheduled for April 2017 in the context of the ME2017 (Informatics for Health 2017) for the institutional and non-profit representative.

8.7 Publication Officer - Simon de Lusignan
The Publication Officer provided a thorough report to the Council about the EFMI publication strategy stressing especially the following aspects:

- Key strategic issues – How do we benefit more from EFMI endorsement of journals?
- How many informatics journals are there?
- Definitions of possible outcome measures
- Publication Officers Proposal to meet EFMI Council recommendations

8.8 Press- and Information Officer - Alexander Hoerbst
- Establishment of an EFMI Archive Infrastructure (Owncloud)
- Constant technical update and Administration of the Website
- Member of the HEC/MIE 2016 Scientific Program Committee
• Principal Editor of the Proceedings of HEC/MIE 2016
• Concept for the Archiving of MIE Conference Summaries
• Participation in face to face and virtual Board meetings supporting current activities related to EFMI participation in events, strategy and EFMI promotion on different media
• Author of the EFMI contribution for the Yearbook 2016

8.9 Executive Officer - Mira Hercigonja-Szekeres

Liaison to EFMI events

• STC 2016:
The STC 2016 started just after the 74th Council meeting. Organizers used the software Easy Chair for organizational arrangements (registration, submission and reviewing process). The STC Proceedings were realised according to the Agreement Between EFMI and IOS Press and published in IOS Press series Studies in health Technology and Informatics 2016 as vol.221, ISBN 978-1-61499-632-3 (print) | 978-1-61499-633-0 (online) titled Transforming Healthcare with the Internet of Things. STC 2016 was very good organized EFMI conference primarily due to good cooperation between the SPC and LOC. Moreover, it must be emphasized that both the SOC and LOC gave a chance to young colleagues including them in all their activities, and organizational and scientific. STC 2016 was organized under the instructions of the EPOS.

• MIE 2016:
For the first time the MIE 2016 has a different status, this time MIE 2016 appears as one of the four equal conferences forming HEC 2016 (Health – Exploring Complexity: An Interdisciplinary Systems Approach).
To serve the MIE2016 as EFMI EO was very specific challenge. First of all there were big differences in submissions for MIE and other conferences (quality requirements on IOS Press series to be indexed). Second – the organizers were not familiar and experienced with EPOS.
During the February and March EO’s role and obligations coming from Agreement and EPOS were mainly clarified. Getting access rights to OCR in March, EO supported SPC as much as possible by the recruitment of reviewers and the distribution of reviews and LOC cooperating to define final program concerning EFMI part of HEC. In April in Paris, before STC 2016, there was a meeting of SPC to define status of submissions, to finish reviewing and make a draft program. EFMI EO took a very active part of that meeting.
On the end MIE 2016 as a part of HEC was successful conference with a big number of submissions (350 or 42.1% of total 833) and brought out many lessons learned.

• MIE 2017:
At 74th EFMI Council Meeting in Paris Council accepted the bid from The University of Manchester for EFMI MIE 2017 in Manchester. The proposed concept was to have two parallel conferences: MIE 2017 and Conference organized by the Farr Institute of Health Informatics Research. EO supported SPC and LOC in all organizational activities.
In the meantime LOC and Chairs of both SPCs decided to join those two conferences in one named “Informatics for Health 2017”. LOC remained the same, and two SPC joint in the one with two co-chairs Ronald Cornet on behalf of EFMI and Colin McCowan on behalf of Farr Institute. At 75th EFMI Council Meeting accepted those changes.
EFMI EO continued to support and to take a part in all organizational activities: submission process, reviewing, bursaries, awards, events.
EFMI EO prepared Statement of BCS to EFMI approving the University of Manchester as the organizer of MIE2017.
EFMI EO prepared the Memorandum of understanding between the University of Manchester and EFMI relating organization of MIE 2017/Informatics for Health 2017.

- **STC 2017:**
  At 75th Council Meeting in Munich Council accepted preliminary bid for STC 2017 in Israel in memory of Assa Reichert presented by Rolf Engelbrecht.
  EFMI EO asked ILAMI (Israeli Association for Medical Informatics) for financial risk management and for more detailed information in a formal bid. Very soon ILAMI’s bid arrived but very different from this one presented by R. Engelbrecht, more over not close to instructions of the EPOS.
  More than two months EFMI EO tries to mediate, to make differences less as possible and to be a part of organization of STC.

- **MIE 2018:**
  Official bid for organization of EFMI MIE 2018 was done by SFMI (Swedish Federation of Medical Informatics).
  EFMI EO started activities examining the bid. No activities are continues preparing the Agreement and introducing LOC with the instructions from the EPOS.

- **STC 2018:**
  Organization of STC 2018 has temporarily stopped because Thomas Deserno changed position and institution. In December 2016 EFMI EO contacted him by e-mail, but there was no answer. Next contacts were done in March, but no answer still.
9 Appendix 3: Working group reports

The WG reports in this appendix were submitted to the IMIA Yearbook, and are provided for your overview and convenience. Alexander Hörbst, Patrick Weber and Lăcrămioara Stoicu-Tivadar prepared the material in this appendix.

9.1 EDU – Education in Health Informatics

Chair:
Professor John Mantas
Health Informatics Laboratory
University of Athens, Greece
E-mail: jmantas@nurs.uoa.gr

Co-Chair:
Emeritus Professor Arie Hasman
Department of Medical Informatics
University of Amsterdam, The Netherlands
E-mail: a.hasman@amc.uva.nl
Website: http://en.hil.nurs.uoa.gr/wgedu.html

Main Objectives:
The introduction of eHealth applications as well as of the Biomedical and Health Informatics (BMHI) discipline into the health care domain requires high quality educated and trained health care professionals in the field.

Education is considered as the most appropriate tool to improve greatly the acceptance attitudes and behavior of the professionals working in the health care environment towards eHealth applications. EFMI acknowledges the importance of Education and, moreover, in its history the working group in education was the first working group to be established. Since education has an international value and there are no borders in its objectives, the working group seeks to achieve international cooperation in its main objectives which they may be summarised as follows: information on existing programs and curricula, dissemination of experiences in implementing educational programs, evaluation, and accreditation of programs, and finally certification of users in BMHI knowledge and skills. A more detailed reference to the objectives can be found below:

- to disseminate and exchange information on Biomedical and Health Informatics (BMHI) programs and courses.
- to exchange experiences of how BMHI is taught and to improve the implementation
- to establish a database on programs and courses on BMHI education.
- to produce international recommendations on BMHI education.
- to support BMHI courses and exchange of students and teachers within the EFMI countries.
- to foster the accreditation process of BMHI programs in Europe.
- to explore the process of certification of knowledge and skills of users in BMHI.

Recent Activities:
- During the joint Board meetings of IMIA and EFMI the issue of representation of EFMI in the accreditation process of academic programs was raised and it was agreed that EFMI will be presented in the accreditation committee and EFMI will be mentioned in
the accreditation certificate whenever an accreditation is taking place in an EFMI country.

- The EFMI Board initiated the Accreditation and Certification process (AC2). A Task Force was established to coordinate these activities. The Chair of the WG EDU chairs the Task Force.
- The activities of the WG EDU and important outcomes will be cited in the new website of the WG EDU.
- A number of educational related papers were presented during the International Conference in Informatics, Management and Technology in Healthcare in Athens on July 2016.
- Providing an operational website for the WG EDU.
- A workshop of the WG EDU was organised at MIE 2016 in Munich.

Activities planned for 2017:

- Enhancing the cooperation between EFMI and IMIA in the accreditation process.
- Certification process will be discussed by the Task Force of the AC2 initiative
- Providing, updating and supporting an operational website for the WG EDU.
- Updating the database of the educational programs in Europe hosted at WG website.
- Organising WG/Panel meetings at MIE2017 and Medinfo2017.

Relevant Recent Publications:


9.2 EHR - Electronic Health Records

Chair:
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Örebro University School of Business
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**Co-Chair:**
Dipak Kalra
The European Institute for Health Records (EuroRec)
(legally registered in France)
Gent, Belgium
E-mail: dipak.kalra@eurorec.org
Website: http://wg.efmi.org

No report for 2016

### 9.3 EVAL - Assessment of Health Information Systems

**Chair:**
Elske Ammenwerth
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Email: elske.ammenwerth@umit.at

**Co-Chair:**
Pirkko Nykänen
School of Information Sciences, Tampere University, Finland
pirkko.nykanen@uta.fi
Jytte Brender
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Website: http://iig.umit.at/efmi/

**Main Objectives:**
Information and communications technologies (ICTs) are being used increasingly in health care. It is evident that the use of modern ICT offers tremendous opportunities to reduce clinical errors, to support health care professionals, and to increase the efficiency of care. However, there are also hazards associated with such technologies. Therefore, rigorous, generalizable evaluations of ICT applications in health care are absolutely necessary. Therefore, the aims of the working group are:

- to foster transdisciplinary dialogues between experts from informatics, medical informatics, economics, health care, health services research, clinical epidemiology, biometry, psychology, sociology, ethnography, organizational development, operations research and other evaluation fields, on a European level, and to encourage exchange on methodological issues between researchers from different traditions;
- to offer an opportunity to share knowledge with the aim of obtaining profitable cross-fertilization among different fields of expertise and especially between quantitative and qualitative research;
• to promote a combined research agenda to develop frameworks and toolkits for information systems evaluation, offering guidelines for an adequate combination of evaluation methods and tools;
• to discuss and clarify the networking needs for long-term evaluation research in medical informatics, and to promote combined research proposals at a European level.

Relevant Activities 2016:

• The working group organized or co-organized the following activities at HEC/MIE 2016 in Munich (27.8. – 2.9.2016):
  o Workshop on "The two-sided market perspective of e-health" (Vivian Vimarlund, Tobias Mettler, Pirkko Nykänen, Michael Rigby)
  o Presentation on "Theoretical foundations for evidence-based health informatics: Why? How?" (Philip Scott, Andrew Georgiou, Hannele Hypponen, Catherine Craven, Michael Rigby, Jytte Brender)
  o Presentation on "Mixed methods evaluations for understanding impact on patient outcomes and work practice" (Rebecca Randell, Dawn Dowding, Philip Scott, Andrew Georgiou)
  o Presentation on "Challenges on personalized medicine and digital health literacy" (Pirkko Nykänen) at the EFMI WG summit
  o Poster presentation on "Recommendations for Health IT Evaluation Training as a Key Prerequisite to Obtaining Evidence" (Elske Ammenwerth, Nicolette de Keizer, Jytte Brender, Catherine Craven, Eric Eisenstein, Andrew Georgiou, Paula Otero, Pirkko Nykänen, Michael Rigby, Saif Khairat, Philip Scott, Farah Magrabi, Charlene Weir)
  o Participation in "HEC 2016 - Meet the Expert"

• At HEC/MIE 2016 in Munich, Elske Ammenwerth and Michael Rigby as editors organized the official Book Launch Reception for their new book: Evidence-Based Health Informatics - Promoting Safety and Efficiency through Scientific Methods and Ethical Policy. Around 50 colleagues, friends and authors joined the celebrations and congratulated the editors and authors. The book is open access available at: http://ebooks.iospress.nl/volume/evidence-based-health-informatics-promoting-safety-and-efficiency-through-scientific-methods-and-ethical-policy and got > 3.700 downloads until January 2017.

• The working group contributed to a position paper entitled “Evaluation considerations for secondary uses of clinical data: Principles for an evidence-based approach to policy and implementation.” This paper will be published in the IMIA Yearbook of Medical Informatics 2017.

• The working group submitted a paper entitled “How to Teach Health IT Evaluation: Recommendations for Health IT Evaluation Courses” to MIE 2017, Manchester

• The working group continued its close collaboration with the IMIA Working Group on Technology Assessment and Quality Development in Health Care. Phone conferences to discuss cooperation and joint activities were held regularly.

• The bibliography on health IT Evaluation is available at https://iig.umit.at/efmi/bibliography.htm. The list contains journal papers and books considered as milestone publications.

Activities planned for 2017:

• Presentation of a contribution entitled “How to Teach Health IT Evaluation: Recommendations for Health IT Evaluation Courses“ at MIE 2017.
• Development of a taxonomy for health IT systems and health IT evaluation and subsequent update of the health IT Evaluation Inventory.
- Contributions to a book entitled “theoretical foundations of health informatics” initiated by Philip Scott.
- Continuing the links to the sister WGs of AMIA and IMIA by joint activities

Relevant Publications 2016:

- Ammenwerth E, Rigby M. Evidence-based Health Informatics - Promoting Safety and Efficiency Through Scientific Methods and Ethical Policy. Stud Health Tech Inform. Vol 222. 2016. IOS Press. Here are selected chapters from this book that were written by core members of the working group:
  - Georgiou A. Finding, Appraising and Interpreting the Evidence of Health IT. pp. 312-323.

9.4 HIIC - Health Informatics for Interregional Cooperation

Chair:
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Website: http://www.efmi.org/index.php/workinggroups/hiic-health-informatics-for-interregional-cooperation
Main Objectives:
- To promote exchange of information and experiences between actors in different regions in Europe, between EU and USA, EU and regions of the world.
- To investigate the needs, opportunities and obstacles for e-health and to review and select from different education options for developing regions.
- To disseminate European and world-wide results and experiences across regions and between professionals.
- To facilitate access to European groups and their facilities and outcomes by students and health professionals from developing regions.
- To disseminate European and world-wide results and experiences across developing regions and professionals.

Relevant Activities 2016:
- Participation with scientific contributions in EFMI STC2016, Paris, France.
- Participation in EFMI MIE2016, Munich, Germany and organizing the workshop on regional projects and low cost solutions for financially challenged regions: Sustainability of Telemedicine Projects for Resource Challenged Regions, Lăcrămioara Stoicu-Tivadar, Michael Weinharara, Monika Hubler, Nora Hinsch.
- Consolidating close cross-border cooperation with neighbours, Hungary (Szeged) and Serbia (Vrsac) in medical informatics education and e-health projects, as example of good practice.

Activities planned for 2017:
- Identifying European needs in relation with cross-border cooperation in e-Health and presenting it in a future EFMI event.
- Supporting with research papers and a workshop the EFMI conferences, as ICIMTH in Greece and STC2017 in Israel.

Relevant Publications 2016:

9.5 HIME - Health Information Management Europe

Chair:
Prof. Dr. Rolf Engelbrecht
USMF Chisinau
E-mail: Engelbrecht@EFMI.info
**Co-Chair:**
Angelika Haendel  
President of IFHIMA  
DVMD board member  
University of Erlangen-Nuremberg, Erlangen, Germany  
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Lorraine Nicholson  
IFHIMA and IFHIMA-Europe past president  
E-mail: l.nicholson@zen.co.uk  
Website: http://efmi.org  
http://www.linkedin.com/groups/EFMI-HIME-Health-Information-Management-4550722/about

**Main Objectives:**
The group operates as a “think-tank” drawing together leading-edge expertise not only from across the medical documentation and medical informatics spectrum but also from other professions with relevant generic input to focus on selected topic areas in support of clinical and healthcare research and routine processes.

- To promote exchange of experience in development, implementation, education, and use of health record systems  
- To promote exchange of standards in close co-operation with SDOs (standard development organisations) and institutions working in the field on national and European level.  
- To investigate the needs, opportunities and obstacles for health information management.  
- To disseminate results and experiences across EFMI members  
- To facilitate access to European educational facilities and EFMI members

**Activities in general**
- Supporting activities of EFMI, its members (resp. their national societies) and IFHIMA-Europe, especially MIE and STC conferences.  
- Organising workshops on national and European level  
- Initiation of a Forum using internet and other publication media.  
- Making educational and promotional material available  
- Preparation of IFHIMA (International Federation of HIM associations) conferences

**Relevant Activities 2016:**
- LinkedIn group EFMI-HIME. Number of members: 468 several topics for discussion and announcements in 2015  
- Participation in ICIMTH2016 14th International Conference on Informatics, Management and Technology in Healthcare Athens, Athens  
- Participation at ICIST2016, Druskininkai/Lithuania  
- Discussion of possible conferences in Europe during MICE events CONVENTA, IBTM, MICE-peak, etc.

**Activities planned for 2017:**
- Organisation of discussions and promotions on the LinkedIn group EFMI-HIME  
- Publications in proceedings, books and journals  
- Special Topic Conference STC2017 “Assa Reichert” in cooperation with Israel Health Information Management Association, 23-24 Oct 2017, Tel Aviv
• Organisation of eHealth Session and workshop and presentation at Digital Economy Show DES2017, 14-16 June 2017, Guadalajara/ Mexico
• Participation in ICIMTH2017, 15th International Conference on Informatics, Management and Technology in Healthcare Athens, 7-9 July, 2017
• ICIST2017, Druskininkai Lithuania, Session “eHealth Information Management Systems” and Satellite Conference in Kaunas / Lithuania, 12-15 October 2017

9.6 HOFMI - Human and Organizational Factors of Medical Informatics

Chair:
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Co-Chair:
Romaric Marcilly
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Main Objectives:
• To establish a network of researchers and practitioners interested in the role of human and organisational factors in the use of healthcare technologies.
• To organise workshops, panels and tutorials dedicated to this topic at the Medical Informatics Europe (MIE) conference and other events.
• To disseminate knowledge about the role of human and organisational factors in the use of healthcare technologies through various activities, including journal publications.
• To support exchange and discussion between researchers and practitioners as well as European collaborations.

Relevant Activities 2016:
• A HOFMI sponsored panel ‘Healthcare Complexity from a Human Factors Perspective’ was held at HEC 2016: Health – Exploring Complexity, An Interdisciplinary Systems Approach.
• A workshop was held in collaboration with the EVAL working group on 'Mixed Methods Evaluations for Understanding Impact on Patient Outcomes and Work Practice' at HEC 2016.
• HOFMI has established a sub-theme within the working group on Consumer Health Informatics, which is being led by Maria Hägglund and Isabella Scandurra.

Activities planned for 2017:
• A working group meeting will take place at Informatics for Health in Manchester in April. As part of this meeting, Maria and Isabella will introduce the sub-theme of Consumer Health Informatics and plans will be made for panel and workshop proposals for MIE 2018.
A HOFMI sponsored workshop on ‘Reinventing Heuristic Evaluations: Exploring Methods to Engage Clinicians in Usability Evaluations’ will take place at Informatics for Health.

Relevant Publications 2016:
Members of the working group were involved in several publications on human and organisational factors of medical informatics, for example:


9.7 IDeS - Information and Decision Support in Biomedicine and Health Care

Chair:
Zdenko Sonicki
Andrija Stampar School of Public Health
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Main Objectives:
Decision support systems (DSS) in biomedicine and health care, in the form of various applications, guidelines or reminders, is applied more often to assist the decision making processes. The complexity of decision-making procedures in these areas caused the development of various decision support systems in order to provide help to the decision makers. DSS are using existing knowledge and evidence, helping the decision maker to make appropriate decision for the specific situation. The quality and comprehensiveness of existing evidence and knowledge that are used in such systems, influence in deriving appropriate decisions, and indirectly affects decision maker’s behaviour. DSS needs to be analysed, systematized, and validated before adopting them for routine use because of its influence on decisions and decision makers.
Analysis of currently available Decision Support Systems in biomedicine and health care, especially in the European environment

Classification of existing Decision Support Systems

Definition of the recommendations set for successful evaluation and implementation of the Decision Support Systems

Relevant Activities 2016:


- Lectures about Decision Support Systems at postgraduate study Leadership and Management of Health Services, University of Zagreb, School of Medicine, Zagreb, Croatia, November 24th-26th 2016. (http://lmhs.eu/)

- Predictive model development in prediction of the success of haemodialysis arteriovenous fistulas based on intraoperative vein distensibility (ongoing research and PhD thesis)

- Individual presentations

Activities planned for 2017:

- Round table “Developing and validating clinical decision rules”, moderator: Mark Ebell, College of Public Health, Epidemiology and Biostatistics, University of Georgia, USA, planned for April 2017, venue: University of Zagreb, School of Medicine, Zagreb, Croatia

- Working group meeting in Croatia

- Extension on predictive model development in prediction of the success of haemodialysis arteriovenous fistulas based on intraoperative vein distensibility (ongoing research and PhD thesis)

- Individual presentations at different meetings focused on decision support topics

9.8 LIFOSS - Libre/Free and Open Source Software

Chair:
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BioCon Valley GmbH
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E-mail: tk@bcv.org
Website: http://www.efmi.org/index.php/workinggroups/lifoss-librefree-and-open-source-software

Main Objectives:
Libre/Free Open Source Software holds a great potential to overcome the fragmentation in health IT and to foster collaboration among different disciplines and stakeholders. The WG promotes this approach, organizes workshops and serves as a networking platform for individuals interested in this approach. In particular, the LIFOSS WG aims

- to help replicate the success of free/libre and open source projects in the health informatics domain, in particular those within education, research, clinical practice and administration
• to build a repository of knowledge about free/libre and open source developments of relevance to the health informatics domain
• to develop an Open Source Market Place
• to explore the implications of digital rights management, digital signatures, copyright and intellectual property issues
• to liaise with other organizations and groups with related or similar objectives

Relevant Activities 2016:
• Co-organization of and participation in IWEEE 2016, 18-20 November 2016, Las Palmas, Gran Canaria
• Co-organization of FLOSS Village at Med-e-Tel 2016, 6-8 April 2016, Luxemburg
• Co-organization of FLOSS workshop at HEC2016, 29-31 August 2016, Munich, Germany
• Maintenance of the MedFLOSS.org database

Activities planned for 2017:
• Co-organization of FLOSS Village at Med-e-Tel 2017, 5-7 April 2017, Luxemburg
• Co-organization of IWEEE 2017, Las Palmas, Gran Canaria, Spain
• Maintenance of the MedFloss.org database
• Collaboration with other EFMI & IMIA WGs

9.9 MCRO/MBDS - Casemix, Resources Management and Outcomes of Care

Chair:
Jacob Hofdijk
Casemix
Oegstgeest, The Netherlands
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No report for 2016

9.10 MIP - Medical Image Processing

Chair:
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Co-Chair:
Jamshid Dehmeshki
Faculty of Science, Engineering and Computing
Kingston University London, Kingston upon Thames, UK
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Website: https://www.efmi.org/index.php/workinggroups/mip-medical-image-processing
**Main Objectives**

Telemedicine and cloud-based medical records, patient-centered research and computer-assisted imaging in controlled clinical trials as well as computer-aided detection and diagnostics are important future domains of medical informatics, where algorithms in image processing and analysis, comprehensive evaluations and workflow-integrated applications are to be developed and operated. Here, medical informatics provides key technologies to innovations in interdisciplinary and translational research. Our outstanding methods improve health care and support medical services in all European nations.

WG MIP aims at fostering European interconnection of medical imaging software technology. In particular, the WG works for the (1) establishment of European medical image registries, which are usually born by individual physicians treating rare diseases but being unable to operate databases in the Internet that fulfill privacy and security regulations; (2) IT-support of clinical trials for individualized medication and treatment, where non-DICOM data (e.g., photographs, ECG recordings) is captured as the base of surrogate endpoints; and (3) ambient assisted living, which is recording and processing a variety of novel signal and data, where proprietary formats need replacement with interconnecting European standards.

Such technology already has replaced PACS and DICOM from research focus yielding novel challenges for medical image processing. In the EFMI MIP community, standards and reference databases can be established and disseminated by EFMI meetings and publications. WG MIP will therefore provide platforms for personal interchange and interconnecting, organize special sessions on European and international meetings, and continue supporting exchange within the group members.

**Relevant Activities 2016**

In 2015, the main activity was the submission of an official bid for EFMI special topic conference (STC) to be held in 2017 in Aachen, Germany. Since imaging biomarkers have become increasingly important for clinical research, personalized medicine, and precision medicine, the EFMI WG Medical Image Processing and the EFMI WG Health Record Banking jointly suggested “Medical Informatics Supporting Clinical Trials” as topic for this STC. Support of German GMDS (Deutsche Gesellschaft für Medizinische Informatik, Biometrie und Epidemiologie) was granted and the bid was timely submitted to the EFMI Council.

However, a MIE bid for 2017 has been placed unexpectedly and on the last minute, and the EFMI Council has decided to stay on the dedicated schedule of MIE and STC conferences, accepted the MIE bid for 2017 and postponed the WG MIP-based STC bid to 2018. Then, the MIP WG Chair, Prof. Deserno, received the offer to become successor of Prof. Haux at Technical University Braunschweig and Medical School Hannover. This again changed the bid, and Braunschweig or Hannover were discussed as venue. However, at HEC 2016 in Munich, decision was made to give the spring slot to MIE 2018, and postpone STC to fall – which is, however not a good season for STC in Germany, due to a lot of other local activities. Therefore, SCT is currently postponed again.

However, the workshop “Bildverarbeitung für die Medizin (BVM)” was held in Heidelberg in March 2016 in Lübeck, Germany, and in March 2017 in Heidelberg, Germany. The program has continuously turned to English language. Therefore, BVM may be considered as a EFMI WG MIP platform in future years. The BVM 2018 slot, however, has been released from Aachen according to the planned STC. BVM 2018 is now held in Erlangen and 2019 in Berlin.

**Activities planned for 2017:**

- Establishing EFMI WG meeting at BVM 2018 in Erlangen
- Biding for STC 2019 in Braunschweig
- Improving the website of WG MIP
- Establishing an email list of all MIP chairs in Europe
9.11 NLU - Natural Language Understanding

Chair:
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Co-Chair:
Julien Gobeill
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No report for 2016

9.12 NURSIE - Nursing Informatics in Europe

Chair
Patrick Weber
Nice Computing SA
Le Mont-sur-Lausanne, Switzerland
Email: patrick.weber@nicecomputing.ch

Co-Chair
To be nominated

Website: https://www.efmi.org/workinggroups/nurie-nursing-informatics-in-europe

Selection of members
After the meeting during NI2016 the membership counties are to be updated.

Main Objectives:
To support nurses and nursing organizations in the European countries with information and contacts and the field of informatics
New objectives are in preparation to allow this working group to bring high value to members countries.

Relevant Activities:
- NI2016 was conducted by IMIA NI. European group were very active.
- This congress had 708 participants from 42 countries giving 348 presentations/poster.
- The proceedings with more than 1’000 pages is available by IOS Press at http://ebooks.iospress.nl/ISBN/978-1-61499-658-3
- Our board meeting on June 28 allows us to set goals for the next two years. And these goals have to be refined during our 2017 meeting.
9.13 PCI - Primary Health Care Informatics

Chair:
Simon de Lusignan
Clinical Informatics and Health Outcomes Research Group
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Website: http://www.clininf.eu/about/efmipciwg.html

Aim:
The working group exists to promote the scientific study and practice of primary health care informatics; and to provide a focus for primary care professionals considering attending EFMI meetings and conferences.

Working group activities:
We aim to encourage primary care informaticians to submit to and attend EFMI conferences. Within the working group we look to promote collaboration through workshops and research publications.

Papers:
We aim to submit a paper from the working group to the Yearbook of Medical Informatics each year. This is generally done in collaboration with the International Medical Informatics Association (IMIA) Primary Health Care Working group.

The two most recent accepted papers are:

- Building and ethics and privacy, ethics and data access framework for accessing real world data. This consensus exercise came to the conclusion we needed much more integrated approach to ethics and privacy; too often they are considered separately.
- Exploring how informatics might support key elements of primary health care. Key elements of primary care are that it should be: (1) Patient-centred, (2) Coordinated, and (3) Quality-assured Care. We conducted workshops and a Delphi exercise to explore the extent to which experts felt informatics was an enabler or an inhibitor. The conclusions were that whilst there was a strong sense that informatics structures and processes support high quality care there was disagreement about how to implement them and integrate them into clinical workflow.

Current submission:

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• Measuring quality of healthcare outcomes in type 2 diabetes from routine data ⁶
This year’s yearbook submission focussed on routine data to assess the quality of care in type 2 diabetes. It includes international as well as European contributions.

Workshops:
• We aim to hold workshops at each MIE and STC. These are designed to develop our discipline as well as encourage people from primary care to attend these conferences.
• Our last workshop was at MEDINFO in Brazil 2015, we used this opportunity to continue developing the framework for integrating ethical approval and privacy protecting requirements for projects into a toolkit. This became one of our yearbook submissions.
• We held a workshop on our ethics and privacy framework at the Paris STC, 2016, aligning ourselves with the Internet of Things theme.
• At MIE 2016 in Munich – we supported the working groups open forum event. This was extremely valuable from the perspective of inter-working group collaboration.

Plans for 2017:
The working group chair will be in attendance at MIE 2017 in Manchester. We plan to submit to the STC in Israel in the Autumn.

9.14 PPD - Personal Portabel Devices

Chair:
Lenka Lhotska
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Co-Chair:
Peter Pharow
Fraunhofer IDMT Ilmenau
Germany
E-Mail: peter.pharow@idmt.fraunhofer.de

Website: http://wg.efmi.org

Main Objectives:
EFMI Working Group (WG) Personal Portable Devices (PPD) aims at being a European competence center to watch ongoing activities and to provide knowledge to policy makers and architect designers involved in the deployment of projects related to personalized, portable devices (PPD) such as cards, tokens, wearable and portable devices, sensors and actuators, and similar technologies including advanced network infrastructures mainly in the domain of healthcare and welfare. WG PPD links its activities to the domain of Ambient Assisted Living by liaising with the IMIA WG on Smart Homes and AAL.
Furthermore, WG PPD representatives are actively involved in standardization activities in various fields and domains including security, safety, management, ethics, medical devices, and sensor networks. Members of WG PPD act as a kind of ambassador to additional standards

developing organizations in various other domains, where aspects of personal portable (mobile) devices are addressed.

Moreover, WG PPD actively supports the organization of meetings of various kinds to disseminate the WG achievements, and to exchange knowledge and information about any topic linked to the interest of the WG PPD members. The main topics the WG PPD is focused on are:

- Personalized Portable Devices, sensors and actuators as well as the underlying networks enable personal and even personalized health service provision going far beyond traditional care procedures. It includes wellness aspects, lifestyle aspects, and safety aspects. Applications from other domains stimulate the respective paradigm shift towards personalized services (addressing citizens rather than patients) also in the healthcare and welfare domain.
- The paradigm shift from health cards to personalized devices and sensor networks for providing personal health services addresses various technical, medical, organizational, legal, and standardization aspects of portable devices (EFMI WG PPD) and related work on sensor networks (ISO/IEC JTC1 SGSN). What EFMI WG PPD is aiming at from a technological viewpoint, are aspects of the present and the near future of personal health service provision supported by devices of any technology, any kind and any size either directly applied to the human body, or placed even inside the body.
- Patient safety, data and communication security, ethics and legal issues become more important as the personal devices, wearables and related technologies are penetrating the market. With the expected interconnection with Internet of Things these non-technical issues must be analyzed in depth and recommendations prepared for development of new applications.

Relevant Activities 2016:
- Strengthening the links to relevant societies and their working groups
- Active participation in Int. Conference Electronic Healthcare Documentation 2016, Prague, Czech Republic
- Active participation in MIE 2016, Munich, Germany – Lenka Lhotska was member of the SPC;
- workshop Personal Health Data - Privacy Policy Harmonization and Global Enforcement jointly organized by EFMI Working Groups Security, Safety and Ethics and Personal Portable Devices in cooperation with IMIA Working Group “Security in Health Information Systems”
- Active participation in EFMI STC 2016, Paris, France – Peter Pharow was invited as keynote speaker

Activities planned for 2017:
- Strengthening the links to relevant societies and their working groups
- Active participation in Int. Conference Systems for Medical Decision Support and Forensic Identification 2017, Prague, Czech Republic
- Active participation in pHealth 2017, Eindhoven, The Netherlands – Lenka Lhotska is invited as keynote speaker
- Active participation in EFMI STC 2017, Tel Aviv, Israel – Lenka Lhotska is member of the SPC

9.15 SSE - Security, Safety and Ethics

Chair:
Until 31st August 2016
Main Objectives:

Speeding up the use of ICT for health care increases the challenge for trustworthiness, security and safety of solutions and infrastructure deployed. The WG aims to promote development, education and training on the field of security and privacy in health care. Close collaboration with other EFMI WGs and beyond, as well as with IMIA WG4, for securing ICT solutions for health care.

Relevant Activities 2016:

- During MIE 2016 in Munich, SSE organized the second Joint Workshop together with IMIA SiHiS WG. The title for the SSE part of the WS was “Personal health data - Privacy policy harmonization and global enforcement”. It covered balance of use of patient information and management of potential conflicts, due to privacy, between health professionals, patients and secondary users. Workshop participants analyzed privacy expectations that take place in different real-life contexts such as portable health devices and personal health records, and discussed mechanisms to balance them in such a way that global protection of health data and its meaningful use is realized simultaneously.

- Working Group Meeting at MIE 2016 in Munich. It included a summary of past activities and a discussion on a plan for next year’s activities (it was stated that the WG also needed an updated business plan, more young members and better visibility). Furthermore, the situation of WG chairmanship was discussed and the election of new WG chairs was done.

- Transfer of the WG Leadership from Pekka Ruotsalainen to Jaime Delgado during and after MIE 2016 in Munich.
Activities planned for 2017:

- Develop a long-term activity plan for SSE, discuss on it and accept the plan in the formal Business Meeting to be held in Manchester during MIE 2017:
  - As a part of this plan, SSE will expand current joint work to cover other EFMI WG/SIGs such as: consumer health informatics, Data mining and Big Data Analysis, HIS, Health Record Banking, Wearable Sensors in Health care and smart homes and ambient assisted living. This indicates the future role of SSE as a horizontal activity. This enables also SSE and other WGs to share expertise and domain specific ethical, security and privacy concerns.
  - Develop further the collaboration with IMIA SiHiS (Security in Health Information Systems) WG.
- Develop the way SSE Workshops are functioning. Workshops should include research papers, theory papers, methodology and conceptual papers, all mixed to provide the widest possible view on the chosen topic. Workshops will be as interdisciplinary as possible, including researchers from different institutions and research fields. An important part of the workshop’s time should be reserved for discussion, small groups or other forms of interaction.
- Develop the visibility of SSE’s work and encourage young experts to participate more actively in the work of the SSE.
- Consider new activities, such as producing regular Bulletins devoted to specific issues (that could be the basis for future Workshops), re-activating the web site in order to be a real mean of communication between members and to the public outside, etc.
- Organize a new Workshop form MIE 2017 in Manchester. The Workshop topic will be “Security and Privacy Standardisation in Healthcare - Impact on Patient’s New Roles”. The workshop will include four presentations lasting approximately fifteen minutes each, leaving the last thirty minutes for a discussion between presenters and attendees. The presentations will go around standards and related initiatives on security and privacy in healthcare and will focus on their connection to patients’ security, taking into account the clear current trend towards patient empowerment.

Relevant Publications 2016:


9.16 THI - Translational Health Informatics

Chair:
Amnon Shabo (Shvo)
Philips
E-mail: amnon.shvo@gmail.com
Main Objectives:
Translational medicine is a relatively new discipline targeted at removing barriers in utilizing new scientific discoveries in healthcare, moving from bench to bedside, on to communities and finally to policy. The biomedical discoveries need to be accompanied by studies in areas such as health economy as well as sociological and psychological aspects. In order to manage the information generated by each of these disciplines, it is crucial to use advanced informatics that could fuse the various types of data into computerized systems that support the translational processes.
This Working Group will be focused on the health informatics needed for accommodating the translational challenges. In particular, we will target the following goals:

- Explore a proposal for a Translational Health Information Language to underlie translational info-structure (see details in the document "Towards Translational Health Information Language" under the Files tab)
- Demonstrate feasibility of common translational info-structure for the currently distinct environments of biomedical research and health care
- Support studies focusing on informatics underlying translational research and medicine
- Foster better interrelation of bioinformatics and medical informatics
- Discuss major challenges in the new OMICS era with regard to translational health informatics and analytics

Relevant Activities 2016:
- The 4th i2b2 European Academic User Group meeting held in Pavia from September 15th to September 16th. The program included presentations on projects using i2b2/tranSMART and related platforms to collect and aggregate data from clinical, genomic and other domains, both for single institution and collaborative projects. Among several aspects presented in the meetings, the most relevant for the EFMI THI WG were: the use of standards to enforce the re-use of clinical data in research, the interaction between next generation genomic and clinical data, the state of the art and future challenges of IT infrastructure to support precision medicine

Activities planned for 2017:
- Holding EFMI THI WG Workshop and business meeting at MIE 2017
- Verifying the possibility of converging synergies with Translational initiatives in the medical field like “European Infrastructure for Translational Medicine (EATRIS)

Relevant Publications 2016:
10 Appendix 4: Reports from Council Task Forces

10.1 Ethics Committee Task Force

Chair:
Professor Dr. George I. Mihalas
Victor Babes Univ. Med.&Pharm. Timisoara, Romania
Academy of Medical Sciences, Com. Medical Informatics & Data Protection
E-mail: mihalas@gmail.com

By a decision of the 73rd EFMI Council, George Mihalas, John Mantas, and Pirkko Nykanen have been nominated to form an “EFMI Committee Task Force”, chaired by George Mihalas.

We started our work from the first draft of Assa Reichert “Tasks, Duties, Responsibility and Authority of EFMI Ethics Committee”, which was initially thought mainly addressing the principles of a code of conduct within the EFMI Council frame. In a more general sense, the ethics principles are extended over all our professional activity. Such a “Code of Ethics for Health Information Professionals” has been adopted by IMIA several years ago and we have considered to include, among our responsibilities, to propose to the EFMI CM to endorse the IMIA Code of Ethics. As at the time of our proposal a revised form of this code was under construction, we adapted our timetable to follow the steps done within IMIA.

Our previous reports, at the 74th and 75th EFMI Council Meetings, were progress reports regarding the contacts made with Chris U Lehmann, President-elect of IMIA concerning the timeline of the new version of IMIA Code of Ethics prepared by Eike Kluge, Canada, who have both welcome the idea of EFMI working on the IMIA Code of Ethics, possible amending the document and adopting it.

During this period, we also made a careful analysis of the new version of IMIA Code of Ethics, comparing it with similar documents (AMIA Code of Ethics and AHIMA Code of Ethics) and concluded that it covers all features we have been planning, representing the best and most appropriate document of this kind for EFMI. We have also taken into account that EFMI is a regional group of IMIA.

The previous EFMI Council Meeting approved our proposals comprising the roadmap of this document, i.e. to ask the council members to read the updated version of the IMIA Code of Ethics and, if the case, to send their comments or potential amendments to the EFMI Ethics Committee Task Force in order to be presented and discussed in the 76th Council Meeting in Manchester.

As there were no amendments proposed and we have received just a couple of mails, all with positive comments, our motion to the EFMI Board is to consider the endorsement by EFMI of the IMIA Code of Ethics and put it to vote.

Would the motion be approved, the national representatives will be asked to advertize the Code of Ethics within their national societies and to consider a translation into their own language.

The major goal of the task force will be considered achieved and the task force proposed to be dissolved, unless other missions within the continuation of the previous one will be formulated.

For further details about the latest version of the IMIA Code of Ethics we add here the following links:
The main page of the Code of Ethics:
http://imia-medinfo.org/wp/imia-code-of-ethics/
The body of the Code:

The short version comprises only the sections added or modified from the previous version (useful for those who have already the translation of the previous version):

11 Appendix 5: Reports from the National Members

11.1 Austria / Working Group Medical Informatics (AKMI) of the Austrian Society for Biomedical Engineering ÖGBMT) and of the Austrian Computer Society (OCG)

Representative: Elske Ammenwerth

The Working Group Medical Informatics (AKMI) of the Austrian Society for Biomedical Engineering ÖGBMT) and of the Austrian Computer Society (OCG) organized for the tenth time the annual eHealth conference in Vienna.

The eHealth conference series (ehealth2017.at) is organized by the Working Group since 2007. Since 2013, it takes place within the framework of eHealth Summit Austria (ehealthsummit.at), a major health ICT event organized by HIMSS Europe (Health Information and Management Systems Society). Each year, this event attracts up to 300 participants from academia, industry, government and health care organizations. In keeping with its motto, "Health Informatics meets eHealth", the eHealth conference series provides a platform for researchers, practitioners, decision makers and vendors to discuss innovative health informatics and eHealth solutions so as to improve the quality and efficiency of health care.

Starting in 2016, the primary conference language is English in order to address the increasingly international focus of eHealth and to acknowledge the importance of cross-border health ICT. A special topic for eHealth2017 will be “Digital Insight – information-driven Health&Care”.

Future ICT systems need to include methods of machine learning and predictive analytics in order to provide actionable information to health carers and to support preventive health care concepts.


11.2 Croatia / Croatian Society for Medical Informatics (CroSMI)

Representative: Mira Hercigonja-Szekeres

Events

Hospital Days 2016: CroSMI sponsored and actively participated in business and technological conference Hospital Days 2016 held in Zagreb in September 2016. Conference covered various topics concerning health system and IT in health such as Medical Specialization, Hospitals Management, e-Health – The Challenges of the Introduction of eChart, Guidelines for the Treatment and Diagnosis, News from the World of Health Information Systems, eHealth and Platforms for new eServices, "Alchemy" in Health System – is eHealth a Solution?, …

Publishing

In 2016 CroSMI published two issues of CroSMI Bulletin available to CroSMI members and public on CroSMI web pages.

Working group

CroSMI is a founder of the EFMI Working group Information and Decision Support in Biomedicine and Health Care (IDeS). Members of WG IDeS and other members of CroSMI had various activities concerning IDeS topics (more information in IDeS report).

Cooperation

CroSMI actively cooperate with various institutions and societies related to field of medicine, health, IT etc.:
- Ministry of Health (Commission for developing a strategy of informatization of Health in Croatia)
- Croatian Health Insurance Fund (Commission for EHR)
- European Institute for Health Records
- HL7 Croatia
- Croatian Medical and Biological Engineering Society
- Croatian Biometric Society
- Croatian Standards Institute
- Academy of Medical Sciences of Croatia (e-health committee)

Other activities
Some members of CroSMI were active participants at EFMI STC 2017 and HEC 2016, and at some other professional conferences in the field of Health/Medical Informatics, Informatics and Medicine.

11.3 Germany / German Association for Medical Informatics, Biometry and Epidemiology (GMDS)

Representative: Alfred Winter

The German Association of Medical Informatics, Biometry and Epidemiology (GMDS, www.gmds.de) besides Medical Informatics encompasses the disciplines Medical Biometry, Epidemiology, Health Data Management and Bio-Informatics. Currently about 2.000 scientists and professionals are member of GMDS. In 2016 GMDS was proud to host MIE 2016 as part of the HEC conference.

GMDS organizes two main conferences annually. In spring GMDS co-organizes a congress, academy and networking program as integral part of the industrial fare conhIT (connecting health IT). Autumn is time for its scientific congress “GMDS- Jahrestagung” usually attracting around 800 participants. This year the Jahrestagung was held in Munich as part of the multiconference HEC 2016 with the motto “Interdisciplinary Systems Approach to Health - Exploring Complexity”. HEC integrated GMDS annual congress with the annual congresses of the German Society for Epidemiology (DGEpi), the International Epidemiological Association (IEA) and EFMI’s MIE 2017. GMDS was proud to host more than 1300 participants from all continents. The MIE topics are well represented by the proceedings7. Next annual congress will be in Oldenburg.

GMDS is platform for more than 50 working groups. Some of them organized additional congresses with more than 100 participants each. The open access journal “GMS Medizinische Informatik, Biometrie und Epidemiologie” and the journal “Methods of Information in Medicine” are the official journals of GMDS.

Activities in 2016 include: mentoring program for young scientists, supporting the national funding initiative for medical informatics, influencing legal regulations about ethics committees, testing ICD-11, memorandum on data privacy in medical research.

GMDS is governed by a board representing its disciplines Medical Informatics, Medical Biometry, Epidemiology, Health Data Management and Bio-Informatics. The board is currently chaired by Ulrich Mansmann; all board members can be found at https://gmds.de/ueber-uns/organisation/#c309.

11.4 Romania / Romanian Society of Medical Informatics

Representative: George Mihalas

At national level, RSMI members serve in several professional and scientific committees and also in various expert committees or working groups (Ministry of Health-Medical Informatics Committee, National Council of Research in Higher Education, Academy of Medical Sciences). RSMI has organized 5 WGs covering current topics in healthcare informatics: Interoperability and EHR, Wireless Devices and Sensors, Education in Biomedical Informatics, Medical Imaging and Nursing Informatics.


RSMI members had an active participation in all EFMI events, including recent participation at: MIE 2015 Madrid, STC 2016 Paris, MIE 2016 Munich, ICIMTH 2015 and 2016 Athens, eHealth 2015 and 2016 Vienna and will also be present in 2017 at MIE in Manchester, eHealth in Vienna ICIMTH in Athens and STC in Tel Aviv.

RSMI Board:
- Lacramioara Stoicu-Tivadar <lacramioara.stoicu-tivadar@aut.upt.ro> president
- George Mihalas <mihalas@gmail.com> – EFMI and IMIA representative,
- Gabriela Georgescu, Elena Podoleanu and Marius Marusteri – vicepresidents.

RSMI website address http://srim.aut.upt.ro

11.5 The Netherlands / Society for Healthcare Informatics (VMBI)

Representative: Ronald Cornet

In 2016 the VMBI participated in the organization of a study trip to HIMSS16 in Las Vegas. In addition, national activities were organized.

In April, the annual meeting of the VMBI was held in Utrecht. This was combined with a lecture on the opportunities and challenges related to developments in healthcare IT. In particular, the explosive growth of apps was discussed.

In October the VMBI participated in a conference on mobile healthcare. Leonard Witkamp, professor Telemedicine, held a lecture on healthcare in 2030 and developments in ICT.

As of March 2017, the board of the VMBI consists of:
- Sander Post: chairman
- Magda Vuijk: secretary
- Ellen Konstapel: treasurer
- Eric Polman: member
- Conchita Hofstede: member
- Jan Christiaan Huijsman: member
- Monique Jaspers: member
- Kees de Jong: member
- Merik Seven, member
12 Appendix 6: Congresses and Publications

EFMI organizes two main series of conferences: the Special Topic Conferences (EFMI-STC) and Medical Informatics Europe (EFMI-MIE). In conjunction or independent of the main congress series, working groups in addition organize topic specific workshops, tutorials and seminars.

12.1 Medical Informatics Europe Conferences (MIE)

So far 27 MIE congresses (Medical Informatics Europe) have been organized by the national members and EFMI with up to more than 1000 participants each. The concept includes peer-reviewed presentations according to the type of paper as oral or poster presentation. Workshops and tutorials prepared or supported by EFMI working groups are an essential part of EFMI MIE conferences.

- MIE 2016 - Munich, Germany (part of HEC 2016)
- MIE 2015 - Madrid, Spain
- MIE 2014 - Istanbul, Turkey
- MIE 2012 - Pisa, Italy
- MIE 2011 - Oslo, Norway
- MIE 2009 - Sarajevo, Bosnia-Herzegovina
- MIE 2008 - Gothenburg, Sweden
- MIE 2006 - Maastricht, Netherlands
- MIE 2005 - Geneva, Switzerland
- MIE 2003 - Sant Malo, France
- MIE 2002 - Budapest, Hungary
- MIE 2000 - Hanover, Germany
- MIE 1999 - Ljubljana, Slovenia
- MIE 1997 - Thessalonica, Greece
- MIE 1996 - Copenhagen, Denmark
- MIE 1994 - Lisbon, Portugal
- MIE 1993 - Jerusalem, Israel
- MIE 1991 - Vienna, Austria
- MIE 1990 - Glasgow, Scotland
- MIE 1988 - Oslo, Norway
- MIE 1987 - Roma, Italy
- MIE 1985 - Helsinki, Finland
- MIE 1984 - Brussels, Belgium
- MIE 1982 - Dublin, Ireland
- MIE 1981 - Toulouse, France
- MIE 1979 - Berlin, Germany
- MIE 1978 - Cambridge, UK
12.2 Special Topic Conferences (STC)
STCs are conferences, specialized in current topics. Special Topic Conferences follow a successful concept including the following components:

- Organization by a member society (often in combination with its annual meeting)
- Topic defined to the needs of the member society
- Relevant EFMI Working groups are engaged for the content
- Contributions mostly on invitation
- Small 2-day conference with 100+ participants

So far 15 STC congresses have been organized by our member societies:

- STC 2016 – Paris, France
- STC 2014 – Budapest, Hungary
- STC 2013 – Prague, Czech republic
- STC 2012 - Moscow, Russia
- STC 2011 - Lasko, Slovenia
- STC 2010 - Reykjavik, Iceland
- STC 2009 - Antalya
- STC 2008 - London, UK
- STC 2007 - Brijuni Island, Croatia
- STC 2006 - Timisoara, Romania
- STC 2005 - Athens, Greece
- STC 2004 - Munich, Germany
- STC 2003 - Rome, Italy
- STC 2002 - Nicosia, Cyprus
- STC 2001 - Bucharest, Romania

12.3 Publication
Publication of the conference proceedings of the EFMI conference series was done in close cooperation with IOS Press in its Medline indexed series “Health Technology and Informatics” in the last years. Selected papers from the EFMI conferences were also published in Methods of Information in Medicine. Following journals are official EFMI journals:

*International Journal of Medical Informatics*

International Journal of Medical Informatics provides an international medium for dissemination of original results and interpretative reviews concerning the field of medical informatics. The Journal emphasizes the evaluation of systems in healthcare settings.

The scope of journal covers: 1) Information systems, including national or international registration systems, hospital information systems, departmental and/or physician’s office systems, document handling systems, electronic medical record systems, standardization, systems integration etc.; 2) Computer-aided medical decision support systems using heuristic, algorithmic and/or statistical methods as exemplified in decision theory, protocol development, artificial intelligence, etc. 3) Educational computer based programs pertaining to medical informatics or medicine in general; and 4) Organizational, economic, social, clinical impact, ethical and cost-benefit aspects of IT applications in health care. More information can be found at: http://www.ijmijournal.com/

*Methods of Information in Medicine*

Good medicine and good healthcare demand good information.

Since the journal’s founding in 1962, Methods of Information in Medicine has stressed the methodology and scientific fundamentals of organizing, representing and analyzing data,
information and knowledge in biomedicine and health care. Covering publications in the fields of biomedical and health informatics, medical biometry, and epidemiology, the journal publishes original papers, reviews, reports, opinion papers, editorials, and letters to the editor. From time to time, the journal publishes articles on particular focus themes as part of a journal’s issue. More information can be found at: http://methods.schattauer.de/

European Journal for Biomedical Informatics
The European Journal for Biomedical Informatics reacts on the great European need to share the information in the multilingual and multicultural European area. The journal publishes peer-reviewed papers in English and other European languages simultaneously. This opens new possibilities for faster transfer of scientific-research pieces of knowledge to large international community of biomedical researchers, physicians, other health personnel and citizens. More information can be found at: http://www.ejbi.org/en/about/

13 Appendix 7 Awards

13.1 Peter L Reichertz Young Scientist Prize
Peter L. Reichertz Young Scientist Prize is awarded to a
- Young scientist (<35 years);
- First author of an MIE-paper,
- Excellent presentation.
- There should not be an EFMI- council member as co-author of the paper.

The winner receives a check of 1,000€. Peter L. Reichertz Young Scientist Prize is funded by EFMI.

In 2016 Fabian Prasser (Germany) and his co-authors won the price for the paper “A Generic Method for Assessing the Quality of De-Identified Health Data” (pubmed-id 27577394).

13.2 Rolf Hansen Memorial Award
Rolf Hansen Memorial Award will be awarded for
- Outstanding paper discussing innovative aspects of clinical information systems, preferably the Electronic Health Record or other tools or resources to support clinical work / delivery of health care, actively acknowledging the end-user, i.e. Health Providers;
- First author should have a health professional degree, e.g., MD, RN;
- Excellent presentation.

The winner receives a check of 1,000 €. The Rolf Hansen Memorial Prize is administered by EFMI.

In 2016 Julian Varghese (Germany) and his co-authors won the price for the paper “Automatic detection of inconsistencies between free text and coded data in Sarcoma discharge letters” (pubmed-id 22874274).

13.3 Best Poster Award
Best Poster Award will be awarded for
- Promising project, concluded or work in progress;
- Aligning with the chosen topic of the actual conference ;
- The chosen poster employs the variety of features and modalities available for a poster.
The winner receives a check, decided by the actual conference LOC and SPC. In 2016 Keisuke Ambai (Japan) won the price for the poster “Development of an alarm and image monitoring system connecting patient monitor to a smartphone” and Romaric Marcilly (France) won the price for the poster “Evidence-Based Usability Database for Medication Alert Systems”.

13.4 Mantas’ Prize for Best Paper on Education in Biomedical and Health Informatics

The Mantas’ Prize for Best Paper on Education in Biomedical and Health Informatics will be awarded for one paper meeting the following criteria

- Outstanding paper about Education in Biomedical and Health Informatics.
- The paper may discuss curriculum development, program and course implementation and evaluation, guidelines and accreditation processes, courseware and software development in education, continuing education of healthcare professionals of all disciplines and levels, distance learning, and even patients/citizens empowerment and increased digital health literacy through education.
- Excellent presentation

The winner receives a check of 500€

Mantas’ Prize for Best Paper on Education in Biomedical and Health Informatics is funded by the Mantas Foundation through the national Greek Biomedical Informatics and Health Informatics Association (GBHI) and administered by EFMI.

The prize has been donated in 2016.