EFMI Annual Report 2017

Sunset at STC 2017 in Tel Aviv (by Michael Shifrin)

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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
In 2017, 30 countries have joined the Federation. 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.

For details, see the following chapters.
2 Executive Board

2.1 Board Members

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>term begins</th>
<th>term ends</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lovis, Christian</td>
<td>President</td>
<td>03.09.2016</td>
<td>2018 STC</td>
</tr>
<tr>
<td>Stoicu-Tivadar, Lăcrămioara</td>
<td>Vice President</td>
<td>03.09.2016</td>
<td>2018 STC</td>
</tr>
<tr>
<td>Moen, Anne</td>
<td>Past President</td>
<td>03.09.2016</td>
<td>2018 STC</td>
</tr>
<tr>
<td>Winter, Alfred</td>
<td>Secretary</td>
<td>04.09.2014</td>
<td>2018 STC</td>
</tr>
<tr>
<td>Nordberg, Ragnar</td>
<td>Treasurer</td>
<td>04.09.2014</td>
<td>2018 STC</td>
</tr>
<tr>
<td>Chronaki, Catherine</td>
<td>Institutional Membership Officer</td>
<td>03.09.2016</td>
<td>2019 STC</td>
</tr>
<tr>
<td>Hörbst, Alexander</td>
<td>Press &amp; Information Officer</td>
<td>30.05.2015</td>
<td>2019 STC</td>
</tr>
<tr>
<td>de Lusignan, Simon</td>
<td>Publication Officer</td>
<td>30.05.2015</td>
<td>2019 STC</td>
</tr>
<tr>
<td>Hercigonja-Szekeres, Mira</td>
<td>Executive Officer</td>
<td>30.05.2015</td>
<td>2019 STC</td>
</tr>
<tr>
<td>Weber, Patrick</td>
<td>Assistant to the board</td>
<td>01.01.2017</td>
<td>31.12.2021</td>
</tr>
</tbody>
</table>

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

2.2 Synopsis of board activities

In 2017, the board had 12 meetings, 10 of them virtual. A continuous documentation on participation and open activities has been maintained. Minutes and additional material of the meetings are available at the EFMI archive1. The main topics discussed have been:

- EFMI Strategy
- Accreditation and Certification
- EFMI Working groups
- EFMI conferences
  - Schedule of MIE and STC conferences
  - Logos for MIE and STC conferences
  - MIE conferences 2016, 2017, 2018
  - STC conferences 2016, 2017, 2018, 2019, 2020
  - Collaboration with a professional congress organizer (PCO)
- EFMI organization
  - Participation in Council meetings
  - Budget planning and amendment
  - Membership fees
  - Preparation of Council meetings, electronic votings
  - Elections of Board members
  - EFMI Website & Social Media, Marketing
  - Mailing list “EFMI-friends”
  - Job-advertisements
  - Membership situation (national members, institutional members)
  - Working groups
- EFMI endorsements
  - Endorsement principles
  - Endorsement of projects, conferences and journals

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1 https://www.efmi.org/owncloud/
- EFMI external relationships
  - IMIA & IMIA conferences
  - EFMI Participation Active and Healthy Aging

### 3 National Members

<table>
<thead>
<tr>
<th>Country</th>
<th>National Society</th>
</tr>
</thead>
<tbody>
<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>The Czech Republic</td>
<td>Czech Society for Biomedical Engineering and 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>Italy</td>
<td>Società Scientifica Italiana di Informatica Biomedica</td>
</tr>
<tr>
<td>The Republic of Moldova</td>
<td>State Medical and Pharmaceutical University &quot;N. Testemitanu&quot;</td>
</tr>
<tr>
<td>The Netherlands</td>
<td>Society for Healthcare Informatics (VMBI)</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>The Russian Federation</td>
<td>National Association of Medical Informatics (NAMI)</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>Turkey</td>
<td>Turkish Medical Informatics Association (TurkMIA)</td>
</tr>
<tr>
<td>The United Kingdom</td>
<td>British Computer Society</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.

<table>
<thead>
<tr>
<th>Name</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>academic institutions, public or private organisations, non-profit institutions</strong></td>
<td></td>
</tr>
<tr>
<td>HL7 – Health Level Seven International</td>
<td>Germany</td>
</tr>
<tr>
<td>HON – Health On the Net Foundation</td>
<td>Switzerland</td>
</tr>
<tr>
<td>National and Kapodistrian University of Athens – HIL</td>
<td>Greece</td>
</tr>
<tr>
<td>Politecnico di Milano – eHealthLAB</td>
<td>Italy</td>
</tr>
<tr>
<td>Dipartimento di Ingegneria Industriale e dell'Informazione, Università degli Studi di Pavia</td>
<td>Italy</td>
</tr>
<tr>
<td>Division of Medical Information Sciences of University Hospitals of Geneva (HUG)</td>
<td>Switzerland</td>
</tr>
<tr>
<td>University of Trieste</td>
<td>Italy</td>
</tr>
<tr>
<td>The Danish Centre for Health Informatics, Aalborg University (DaCHI)</td>
<td>Denmark</td>
</tr>
<tr>
<td>European Campus Rottal-Inn of Deggendorf Institute of Technology (ECRI)</td>
<td>Germany</td>
</tr>
<tr>
<td>Autoritatea Națională de Managementul Calității în Sănătate (National Authority for Quality Management in Healthcare) (ANMCS)</td>
<td>Romania</td>
</tr>
<tr>
<td><strong>industrial and corporate organisations</strong></td>
<td></td>
</tr>
<tr>
<td>AGFA Health Care</td>
<td>Belgium</td>
</tr>
<tr>
<td>Case Mix</td>
<td>The Netherlands</td>
</tr>
<tr>
<td>GS1 Global Standards One</td>
<td>Belgium</td>
</tr>
<tr>
<td>IBM Research</td>
<td>Israel</td>
</tr>
<tr>
<td>Ramsey Systems Ltd</td>
<td>United Kingdom</td>
</tr>
</tbody>
</table>
5 Working Groups

<table>
<thead>
<tr>
<th>Working Group</th>
<th>Chair</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU - Education</td>
<td>Mantas, John</td>
</tr>
<tr>
<td>EHR - Electronic Health Records</td>
<td>Klein, Gunnar</td>
</tr>
<tr>
<td>EVAL - Assessment of Health Information Systems</td>
<td>Ammenwerth, Elske</td>
</tr>
<tr>
<td>HIIC - Health Informatics for Interregional Cooperation</td>
<td>Stoicu-Tivadar, Lâcrâmióara</td>
</tr>
<tr>
<td>HIME - Health Information Management Europe</td>
<td>Engelbrecht, Rolf</td>
</tr>
<tr>
<td>HOFMI - Human and Organisational Factors of Medical Informatics</td>
<td>Randell, Rebecca</td>
</tr>
<tr>
<td>IDeS - Information and Decision Support in Biomedicine and Health Care</td>
<td>Sonicki, Zdenko</td>
</tr>
<tr>
<td>LIFOSS - Libre/Free and Open Source Software</td>
<td>Karopka, Thomas</td>
</tr>
<tr>
<td>MCRO/MBDS - Casemix, Resources Management and Outcomes of Care  (dissolved by end of 2017)</td>
<td>Hofdijk, Jacob</td>
</tr>
<tr>
<td>MIP - Medical Image Processing</td>
<td>Deserno, Thomas</td>
</tr>
<tr>
<td>NLU - Natural Language Understanding (dissolved by end of 2017)</td>
<td>Ruch, Patrick</td>
</tr>
<tr>
<td>NI - Nursing Informatics</td>
<td>Weber, Patrick</td>
</tr>
<tr>
<td>NI - Nursing Informatics</td>
<td>Madsen, Inge</td>
</tr>
<tr>
<td>NI - Nursing Informatics</td>
<td>Madsen, Inge</td>
</tr>
<tr>
<td>NI - Nursing Informatics</td>
<td>Madsen, Inge</td>
</tr>
<tr>
<td>PCI - Primary Health Care Informatics</td>
<td>de Lusignan, Simon</td>
</tr>
<tr>
<td>PPD - Personal Portabel 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>Shabo, Amnon</td>
</tr>
</tbody>
</table>

The working group “MCRO/MBDS - Casemix, Resources Management and Outcomes of Care” was established in 1988 by the EFMI Council as the first EFMI working group. EFMI gratefully thanks Francis Roger France and Jacob Hofdijk for the influential work of this group. 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>Name</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>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 Lusignan, Simon</td>
<td>The United Kingdom</td>
</tr>
<tr>
<td>Haftberg, 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>
</tr>
<tr>
<td>Lovis, Christian</td>
<td>Switzerland</td>
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<tr>
<td>Mantas, John</td>
<td>Greece</td>
</tr>
<tr>
<td>Masic, Izet</td>
<td>Bosnia Herzegovina</td>
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<tr>
<td>Mayorow, Oleg</td>
<td>Ukraine</td>
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<tr>
<td>Mihalas, George (until 23.11.2017)</td>
<td>Romania</td>
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<td>Milic, Natasa</td>
<td>Serbia</td>
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<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, Constantinos</td>
<td>Cyprus</td>
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<tr>
<td>Quaglini, Silvana</td>
<td>Italy</td>
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<tr>
<td>Rosiouru, Alexandru</td>
<td>The Republic of Moldova</td>
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<tr>
<td>Saka, Osman</td>
<td>Turkey</td>
</tr>
<tr>
<td>Seidl, Libor (since 19.03.2017)</td>
<td>The Czech Republic</td>
</tr>
<tr>
<td>Seroussi, Brigitte</td>
<td>France</td>
</tr>
<tr>
<td>Shifrin, Michael</td>
<td>The Russian Federation</td>
</tr>
<tr>
<td>Stoicu-Tivadar, Lâcrămioara (since 24.11.2017)</td>
<td>Romania</td>
</tr>
<tr>
<td>Winter, Alfred</td>
<td>Germany</td>
</tr>
<tr>
<td>Zvárová, Jana (until 18.03.2017)</td>
<td>The Czech Republic</td>
</tr>
</tbody>
</table>

6.2 Working Group Chairs

Please refer to chapter 5.
6.3 Institutional Members Representatives

The Institutional Members (chapter 4) 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:

- non-profit and academic institutions: Catherine Chronaki
- industrial and for-profit organizations: Dirk Colaert (until 23.04.2017), Jacob Hofdijk (since 24.4.2017)

6.4 Honorary Fellows

<table>
<thead>
<tr>
<th></th>
<th>elected</th>
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</thead>
<tbody>
<tr>
<td>Andersen, Stig Kjaer</td>
<td>2015</td>
</tr>
<tr>
<td>Barber, Barry</td>
<td>1989</td>
</tr>
<tr>
<td>Baud, Robert</td>
<td>2008</td>
</tr>
<tr>
<td>Blobel, Bernd</td>
<td>2014</td>
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<tr>
<td>Engelbrecht, Rolf</td>
<td>2012</td>
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<td>Gell, Günther</td>
<td>2004</td>
</tr>
<tr>
<td>Hasman, Arie</td>
<td>2010</td>
</tr>
<tr>
<td>Hofdijk, Jacob</td>
<td>2012</td>
</tr>
<tr>
<td>Mantas, John</td>
<td>2015</td>
</tr>
<tr>
<td>Masic, Izet</td>
<td>2016</td>
</tr>
<tr>
<td>McNair, Peter</td>
<td>2004</td>
</tr>
<tr>
<td>Mihalas, George</td>
<td>2012</td>
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<tr>
<td>O’Moore, Rory</td>
<td></td>
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<tr>
<td>Peterson, Hans</td>
<td>1988</td>
</tr>
<tr>
<td>Roger-France, Francis</td>
<td>1991</td>
</tr>
<tr>
<td>Rossing, Niels</td>
<td>1994</td>
</tr>
</tbody>
</table>

EFMI will always remember its deceased Honoray Fellows:

<table>
<thead>
<tr>
<th></th>
<th>passed away</th>
<th>elected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abbott, Bud</td>
<td>2011</td>
<td>1987</td>
</tr>
<tr>
<td>Anderson, John</td>
<td>2002</td>
<td>1985</td>
</tr>
<tr>
<td>Bryden, John</td>
<td>2012</td>
<td>2009</td>
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<tr>
<td>Grémy, François</td>
<td>2014</td>
<td>1987</td>
</tr>
<tr>
<td>Hansen, Rolf</td>
<td>1993</td>
<td>1991</td>
</tr>
<tr>
<td>Jorgensen, Mogens</td>
<td>1988</td>
<td></td>
</tr>
<tr>
<td>Reichert, Assa</td>
<td>2015</td>
<td>2010</td>
</tr>
<tr>
<td>Reichertz, Peter L.</td>
<td>1987</td>
<td>1985</td>
</tr>
<tr>
<td>Remond, Antoine</td>
<td>1998</td>
<td>1985</td>
</tr>
<tr>
<td>Scherrer, Jean-Raoul</td>
<td>2002</td>
<td>2002</td>
</tr>
<tr>
<td>Wagner, Gustav</td>
<td>2006</td>
<td>1987</td>
</tr>
<tr>
<td>Weber, Albert</td>
<td>1987</td>
<td></td>
</tr>
<tr>
<td>Zvárová, Jana</td>
<td>2017</td>
<td>2014</td>
</tr>
</tbody>
</table>
6.5 Auditing Committee

The Auditing Committee has been elected at the council meeting at MIE 2015 in Madrid:

Name
Cornet, Ronald
Ammenwerth, Elske
Chronaki, Catherine

6.6 Council Meetings

There were two meetings in 2017. On April 23 the Council met in Manchester at MIE 2017 and on October 22 the Council met at STC 2017 in Tel Aviv. Minutes and additional material of the meetings are available at the EFMI archive².

² https://www.efmi.org/owncloud/
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.

3 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 chairperson. 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 of 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 misdeemour 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 30 May, 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 – Christian Lovis

**Functional activities**

- Holding of the regular virtual Board meetings;
- Management of the usual/regular points raised;
- Representation activities as President of EFMI in meetings, conferences, etc, for example Nursing Informatics Europe 2017
- Signed a few contracts, such as for conferences (STC 2018), or personal contracts such as Social Network Assistant, Mr Dimitris Petkoulis;
- Support for EFMI activities, such as conference promotion, visibility, publication assessment, ...

**Specific activities**

- Leverage the EFMI accreditation activity, several meetings with IMIA president
- Reinforced the EFMI social networking activity;
- Launched PCO initiative with Patrick Weber;

8.2 Vice President - Lăcrămioara Stoicu-Tivadar

VP activities during 2017 include:

- Participation to face to face and virtual Board meetings – supporting current activities related to EFMI participation in events, social media, 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 2017: 14 WGs; working with WGs to elect new chairs for 2018.
- WG chairs meetings to support functional activities during STC in Tel Aviv and planning Business meetings for MIE2018
- Encouraging EFMI advertise WG activities on website and social media.

Results: decisions on future activities, asking for financial support for active WGs, starting discussions on what active WGs mean, continuing marketing activities (cards, short movies, WGs presentations, webinars investigations), having a WGs poster and preparing WG posters in MIE2018.

Involved in WG EFMI events:

- WGs Supporting STC2017 and MIE2017 conferences, scientifically, organizing activities in relation with WGs and communicating with WG chairs for contributions.
- 3 WGs – HIMS, EDU, PPD - organizing STC2017 in Israel [http://stconference.com/](http://stconference.com/) and having HOFMI, NI and HIIC as active supporters
- EFMI LIFOSS WG co-organized IWEEE 2017 and GNUHealthCon 2017, Las Palmas de Gran Canaria, Spain, [http://gnuhealthcon.org/2017-las_palmas/](http://gnuhealthcon.org/2017-las_palmas/)
- Prof. Jaime Delado, chair of EFMI WG SSE participated as keynote speaker during Romanian Society of Medical Informatics Conference presenting the Impact of patients’ privacy in e-Health deployment, and promoting cooperation between EFMI national members and EFMI WGs, [http://www.srimed.ro/pdf/Program%20RoMedinf%202017.pdf](http://www.srimed.ro/pdf/Program%20RoMedinf%202017.pdf)
Main activities for 2018: consolidating WGs activity through: financial support, webinars/faceto-face presentations, and marketing, resuming cooperation with IMIA WGs.

EFMI is active on specific topic activities with 14 WGs:

EDU – Education
EHR – Electronic Health Records
EVAL – Assessment of Health Information Systems
HIIC – Healthcare Informatics for Interregional Cooperation
HIME – Health Information Management Europe
HOFMI – Human and Organisational Factors of Medical Informatics
IDeS – Information and Decision Support in Biomedicine and Healthcare
LIFOSS – Libre/Free and Open Source Software
NURSIE – Nursing Informatics in Europe
PCI – Primary Healthcare Informatics
PPD – Personal Portable Devices
SSE – Security, Safety and Ethics
MIP – Medical Image Processing
THI – Translational Health Informatics

8.3 Past President - Anne Moen

Meetings of IMIA
Participated in the General Assembly in the board meeting of 2017; held in Victoria BC, Canada – in conjunction with the ITHC conference and MedInfo’2017 in Hangzhou.

The financial forecast for IMIA is such that strategies to increase membership, e.g., diversify category of “Institutional Members” to attract academic members, and find other revenue generating activities for IMIA is important. SWOT analyses – reason why become members of IMIA – will be circulated for comments and parts will be uploaded on the web for inspiration.
The new website www.imia-medinfo.org is fully developed.

MedInfo Conferences
MedInfo 2017 was held August 21st to 25th in Hangzhou China.
MedInfo 2019 will be organized by France in Lyon. August 26th to 30th 2019
Of the bids for MedInfo 2021; the Bid from HISA was selected by IMIA Council, and the conference will be in Sydney Australia in August 2021.

Collaboration between EFMI and IMIA
Collaboration of the EFMI and IMIA WG collaboration continues. Accreditation of Health Informatics educational offerings is another example where EFMI and IMIA could collaborate, and at the same time ensure more regional relevance and a strong accreditation procedure. We have shared information about EFMI activities in the EFMI Regional report for the IMIA Yearbook 2018.

Outreach
Participated in the following outreach activities;

• DG Sante, “Citizen and Health Data”, January, 27th 2017
eHealth Summit 2017 “ --- ” Lisbon, Portugal April 4th 2017

- eHealth Summit 2017 “Citizen and Health Data” Lisbon, Portugal April 5th 2017
- eHealth Week 2017: “Citizen – health data; Knowing me, knowing you: Patients’ and Clinicians’ Access to and Sharing of Health Data, Malta, May 10th, 2017
- European society on Hypertension “mHealth Apps in Connected Care: EFMI member activities”, Milan, June 16th, 2017
- MedInfo’2017: “Workforce Development and the Role of Informatics Associations”, plenary panel with AMIA; HIS, IMIA-LAC and EFMI, August 24th, 2017

In addition, I am member of the EU eHealth stakeholder group – and serve as rapporteur “Citizen and Health Data”.

8.4 Secretary - Alfred Winter

- Maintaining the EFMI Archive https://www.efmi.org/owncloud: Minutes from council and board meetings are now available since 1976. Additionally many old reports have been scanned.
- Organizing and journalizing board meetings: For details see “Synopsis of board activities” before.
- Organizing and journalizing council meetings.
- Organizing and filing membership matters.
- Chairing the membership fees task force
- Editing this EFMI report.

8.5 Treasurer - Ragnar Nordberg

The income for EFMI has been lower in 2017 than previous years. It is mostly due to the HIGH contribution of MIE 2017 to the conference in Manchester (together with the Farr Institute). There are also some National members who have not paid their membership fees for a long time. Reason may be that we have lost contact with them due to various circumstances like national political instability and/or changes in their organizations. The EFMI board has decided to send a warning to those who have big deficits that they will be expelled from EFMI if they do not contact an EFMI board member. If a national member do so, we will start a discussion with that nation about how we can help them to get active again in the EFMI organization. If we do not get any contact with a representative that nation will be ruled out at the next Council meeting. There also occur changes in the organizations of our Institutional Members, some new are coming others disappear. See table 2. Two reminders have been sent to those who have not paid.

Due to continuous reductions of our operating costs, we have been able to keep our budget. During this year, EFMI has started investing in improving our appearance on social media. A social network assistant has been engaged for this for a six months period to a flat monthly fee. The result has been good and therefore the agreement with the assistant has been extended for another six months period.

Work has also been started to improve the organization of the organization of the MIE conferences. A number of Professional Conference Organizers have been asked and their responses are now to be evaluated. This will also lead to a smaller investment in the start. For
these reasons, the EFMI Board has decided to allocate investment capital from EFMI’s savings, as can be seen in the budget for 2018.

The proposed budget for 2018 has been established at the Gothenburg Council meeting on April 23, 2018.

8.6 Institutions Membership Officer - Catherine Chronaki

Efforts in this period were centered on raising visibility of EFMI in policy, academic, and medical society cycles, to support current institutional members and attract new ones. Activities involved one-to-one meetings, business meetings in EFMI conferences, presentations, and organization of workshops. There was active participation in board conference calls, meetings, and strategy discussions.

**Board Activities**
- Served on the AC2 committee.
- Served on the Informatics for Health 2017 Scientific Committee
- Engaged in outreach activities: organized workshops
- Head meetings with Institutional members
- Represented EFMI in conferences and events
- Facilitated elections of new council representatives of EFMI Institutional Members

**Institution Members**

In Informatics for Health 2017 (MIE2017) in Manchester, in accordance to EFMI Bylaws, there were elections of new Institutional Member representatives. Catherine Chronaki for non-profit and Jacob Hofdijk for for-profit were elected for the period.

Results of this board’s outreach toward institutional members has been the expression of interest from several organizations to become Institution members of EFMI. Two applications have materialized that will be considered in the EFMI Council meeting of April 2018.

Collaboration with EUSEM, as part of EFMI’s outreach to medical societies has continued and a panel is planned for MIE2018 “Digitization in the Emergency Department: Delivering on the promise of Big Data Analytics” where the president elect of EUSEM participates. Finally, we have strongly engaged institutional members in the organization of MIE2018 datathon, hoping to set the stage for a new type of activity that will attract entrepreneurs and researchers in future EFMI activities.

**Outreach**

Efforts in this period were centered on raising visibility of EFMI, supporting current institutional members, and attracting new ones. This involved one-to-one meetings, business meetings in MIE conferences, presentations, and the organization of workshops: Informatics for Health (3), MedInfo2017 (2 workshops, 1 paper presentation), STC2017 (1 presentation), eHealthWeek (1 workshop, 1 presentation), EUSEM (1 workshop, 1 keynote).

Key workshops with strong EFMI participation:
- eHealthWeek 2017, May 8-12, 2017, Workshop in collaboration with AMIA and the AC2 Task force, at High-Level eHealth Conference of the Maltese European Union Presidency, “Connected health data meet the people: diversity, standards, and trust.”, with Anne Moen, John Mantas from EFMI leadership, and Doug Fridsma from AMIA. An interview was facilitated.

EFMI was noted in the following outreach activities, beyond those in the frame of EFMI events:
- **Speeches in medical society meetings:** Hellenic Cardiology Society (Digital Health: Trends, standards and practices, Heart and Vessels, Athens, Greece, January 27, 2017), European Association of Preventive Cardiology (EuroPrevent 2017, Malaga, April 6, 2017), Royal Society of Medicine (“Digital health and insurance: a perfect partnership?” London, June 1, 2017)
- **Policy workshops:** eHealth Summit Portugal (Citizens, Apps, and Data: The role of the Patient Summary, Portugal eHealth Summit, April 4, 2017), Towards a European ecosystem for health care data, Digital Enlightenment Forum, Brussels, Oct 25, 2017
- **Panels:** Preventive healthcare: exploring big data’s rising role in active and healthy ageing, AgingFit, Lille France, February 2, 2017, From Innovation to Implementation - How to Standardise New Methods in Healthcare?”, Future of Healthcare in the age of digitization by Wilfried Malfred Center of European Studies.
- **Keynote:** Can big data replace gut feeling? 11th European Congress on Emergency Medicine, Athens, September 24, 2017
- **Rapporteur:** EU eHealth stakeholder group – and serve as rapporteur “Standards and Interoperability”.

### 8.7 Publication Officer - Simon de Lusignan

**EFMI Journals:**

We are progressing our policy over EFMI Journals.

**Acta Informatica Medica** - The Journal of the Society of Medical informatics of Bosnia and Herzegovina has joined the ranks of the official EFMI Journals. Many congratulations to Prof Izet Masic and all who have supported this journal.

Acta Informatica Medica (AIM) had been a great friend of EFMI and willing to publish papers that report EFMI events;^4^ and about the history of informatics, its key contributors and its associations.^[5]^(5^)

We are now looking to promote a more inclusive policy:

- We are looking to follow the EFMI Council advice (from 2016) summarised on the next page.
  - Include more Journals in those we endorse in EFMI
  - Our starting points should be journal of our member societies, as we are a Federation of National Societies
- All new EFMI journals should be:
  - Full free-text online after publication – i.e. Open access to readers
  - Indexed in PubMed Medline with a link-out to a PubMed approve repository

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Be listed in Scopus and Scimago
Publish papers from EFMI conferences and from EFMI working groups
Have transparent systems for charging, peer review and all principal journal activities
Provide the Publications Officer with an annual report on their publishing activities relevant to EFMI

To continue as an EFMI Journal
Journal should uphold the requirements listed above

I am keen to get feedback from Working Groups and other interested parties as to how we can promote the name of EFMI in the literature and generally increase the citation of our discipline.

EFMI Council advice:
The Council in Munich 2016 advised:
1. The added value of current EFMI endorsed journals has to be checked,
2. EFMI shall consider broadening its journal listing,
3. Endorsement of each journal shall be approved for three-year period, and
4. Improve EFMI publication activities in the endorsed journals

Jana Zvárová Memorial Conference
Jana was a distinguished medical informatician. There is a one day conference in her memory in Prague on Friday 4th May. Many senior EFMI figures are speaking at this event. Please pass this notification on to your National Societies and make every effort to attend, albeit the notice is short.

Further details at: http://www.jzmc.cz/program/

Conflict of Interest statement
Simon de Lusignan is the Editor of Journal of Innovation in Health Informatics (formerly Journal of Informatics in Primary Care -JoIHi) - https://hijournal.bcs.org/index.php/jhi this is a house journal of the British Computer Society (the UK member of EFMI). This is an unpaid – scholarship/pro bono post.

8.8 Press- and Information Officer - Alexander Hoerbst
We have had several discussions in the board regarding the future of the EFMI website as we are still facing problems to continuously update its content as well as to feed social media channels with up-to-date content as the support of the community is still very limited. As several approaches have already been taken to change the situation, which only were of limited success, the decision in the board was taken to employ Dimitris to feed social media channels with news about EFMI.

Further, as the press and information officer of EFMI, I support the continuous professionalization of the EFMI news feed. As it is time critical to feed the various channels with news this can only be done by a professional (organization). So I recommend to further move towards the way we have already chosen. If we look at IMIA we can see a similar development.

Indeed it is questionable if we actually need a separate website or if we should integrate different social media channels to be our website. This is especially true as the website is at its technical end of life. We do need a fundamental technical relaunch as many of the packages that we used need to be updated/changed or are no longer available.
In my role as a scientist, I visited several conferences using them to also promote EFMI. Selected task that were completed in the previous year:

- Organization and Setup of Online Voting
- Supporting EFMI social media activities.
- Maintaining the EFMI Archive Infrastructure
- Changing/Updating several website content
- Constant technical update and Administration of the Website
- 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
- Section Editor for the Yearbook
- Checked possibility for EFMI website accreditation

8.9 Executive Officer - Mira Hercigonja-Szekeres

Liaison to EFMI events

MIE 2017 → Informatics for Health 2017:
Informatics for Health 2017 was joint conference of two conferences: EFMI MIE 2017 and Farr Institute International Conference 2017. There was one SPC with two co-chairs: Ronald Cornet on behalf of EFMI and Colin McCowan on behalf of Farr Institute. There was a Statement of BCS (British Computer Society) to EFMI approving the University of Manchester as the organizer of MIE 2017 / Informatics for Health 2017. This Statement was prepared by EFMI EO. Informatics for Health 2017 was held in Manchester 24th – 26th April 2017, and venue was the Manchester Central.

Total number of participants who registered their country was 585, and total number of countries represented was 38. The Proceedings titled “Informatics for Health: Connected Citizen-Led Wellness and Population Health” were realised according to the Agreement between EFMI and IOS Press and published in IOS Press Series Studies in Health Technology and Informatics 2017 as vol.235, ISBN 978-1-61499-753-5 (on line), 978-1-61499-752-8 (print).

Informatics for Health 2017 Conference Survey was done by organizers, and despite not having a large number of respondents provided some interesting results.

EFMI EO actively supported SPC and LOC and took part of mostly all SPC virtual meetings.

STC 2017:
EFMI STC 2017 "The practice of patient centred care: Empowering and engaging patients in the digital era", was held on 23-24 October 2017 at the Hilton Tel Aviv, Israel. The Conference was dedicated to the memory of Assa Reichert. There was quite long process agreeing all the relevant issues associated with this conference that it would be organized on the way recommended in the EPOS, but also in accordance with the usual meetings organized by ILAMI (Israeli Association for Medical Informatics).

The Proceedings were realised according to the Agreement between EFMI and IOS Press and published in IOS Press Series Studies in Health Technology and Informatics 2017 as vol.244, ISBN 978-1-61499-824-2 (on line), 978-1-61499- 823-5 (print). It is worth noting that the second day two major Workshops were held in hospitals: the Sheba medical Center in Tel Aviv and Rambam Health Care Campus in Haifa.

EFMI EO had quite a lot troubles in co-operation with the SPC, the LOC function practically took over the person from PCO, there were many changes, the recommendations from EPOS
almost were not applied at all. More than two months EFMI EO tries to mediate, to make differences less as possible and to be a part of organization of STC 2017. Special role of EFMI EO was in organizing submissions for Proceedings.

*MIE 2018*:

EFMI MIE 2018 “Building Continents of Knowledge in Oceans of Data: The Future of Co-Created eHealth” is organized by SFMI (Swedish Federation of Medical Informatics) and it will be held 24th – 26th April 2018 in Gothenburg, Sweden.

EFMI EO started activities examining the bid, later activities were continued with preparations of the Agreement and introducing LOC with the instructions from the EPOS. EFMI EO has cooperated successfully with SPC and LOC, has taken active part in the organization of Conference, especially regarding reviewing process.

Full papers will be published in Proceedings in IOS Press Series Studies in Health Technology and Informatics 2018 according Agreement between EFMI and IOS Press.

*STC 2018*:

The organization of EFMI STC 2018 in the beginning was assigned to the Deutsche Gesellschaft für Medizinische Informatik, Biometrie und Epidemiologie (GMDS) and Thomas Deserno as the main local organizer. Because Thomas Deserno changed his institutional affiliation, this Conference was transferred to 2019 and will be held as EFMI STC 2019.

Croatian Society for Medical Informatics (CroSMI) took this advantage of the opportunity to apply for organization of EFMI STC 2018. This Conference is titled “Decision Support Systems and Education – Help and Support in Healthcare”, two EFMI Working Groups (WG) are joint in organization: EDU and IdeS. Its bid was accepted at the 77th EFMI Council meeting, more precisely after that meeting by electronic voting.

EFMI EO started activities examining the bid, and later continued with introducing LOC and SPC with the instructions from the EPOS and preparing the Agreement. EFMI EO activities continued in organization of Conference: web, venue, submission process, activating OR system for online submission and reviewing.

*STC 2019*:

It is written before that GMDS and Thomas Deserno applied new Bid for EFMI STC 2019. This new bid was accepted at the 77th EFMI Council meeting, more precisely after that meeting by electronic voting.

According this bid EFMI STC 2019 is dedicated to Prof. Reichertz. The Peter L. Reichertz Institute for Medical Informatics (PLRI) hosts the meeting on behalf of the GMDS in collaboration with EFMI Translational Health Informatics Working Group from April 4th to April 10th, 2019, at the historic Leibniz House, which is located directly in the city centre of Hannover, Germany.

EFMI EO started activities examining the bid, and later will continue introducing LOC with the instructions from the EPOS and preparing the Agreement.

*MIE 2020*:

There is preliminary bid from Prof. Christian Lovis that the EFMI MIE 2020 would be held in Geneva, Switzerland in the April or in the October 2020.
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:
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Co-Chair:
Emeritus Professor Arie Hasman
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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 behaviour 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 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 in the field, 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 2017.

Activities planned for 2018:

- Enhancing the cooperation between EFMI and IMIA in the accreditation process.
- Participation in revising the educational recommendations.
- Supporting the AC2 initiative
- Providing, updating and supporting an operational website for the WG EDU.
- Updating the database of the educational programmes in Europe hosted at website.
- Organising Educational plenary panel session at MIE2018.

New Chair for WG EDU:

- The WG EDU Nominates to the EFMI Council Professor Kaija Saranto as the chair for WG EDU. Professor Kaija Saranto is a well-known academic from the University of Eastern Finland with a long tradition in educational activities with excellent international reputation in EFMI and in both AMIA and IMIA. To ensure continuity under the current undertaken actions of the WG EDU, the current chair will support the new chair as co-chair for the first term.

Relevant Recent Publications:


• Jaspers MW, Mantas J, Borycki E, Hasman A. IMIA Accreditation of Biomedical and Health Informatics Education: Current State and Future Directions. Yearbook of medical informatics 26 (01), 252-256

9.2 EHR - Electronic Health Records

Chair:
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Co-Chair:
Dipak Kalra
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(legally registered in France)
Gent, Belgium
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No report for 2017

9.3 EVAL - Assessment of Health Information Systems

Chair:
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Co-Chair:
Elske Ammenwerth
UMIT - University for Health Sciences, Medical Informatics and Technology, Hall in Tyrol, Austria
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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 2017:**

- The working group contributed a position paper entitled “The safe and effective use of shared data underpinned by evaluation rigour and evidence-based health informatics” in the IMIA Yearbook of Medical Informatics 2018.
- The working group published the Recommendations for Health IT Evaluation Courses at MIE2018 (full paper).
- The working group prepared a poster for the presentation of EFMI WG EVAL at MIE2018.
- Members of the working group met with representatives of openMRS at Medinfo 2017 to discuss potential for cooperation
- 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.

**Activities planned for 2018:**

- Preparation of an edited book on health informatics theories, working title: Applied interdisciplinary theory in health informatics: a knowledge base for practitioners, editors: Dr Philip Scott, Prof Nicolette de Keizer, Prof Andrew Georgiou.
- Publication of a JAMIA paper on replication in medical informatics (together with Enrico Coiera).
- Continuing the links to the sister WGs of AMIA and IMIA by joint activities.
Relevant Publications 2017:


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

No report for 2017

9.5 HIME - Health Information Management Europe

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Co-Chair:
Angelika Haendel
President of IFHIMA
DVMD board member
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Lorraine Nicholson
IFHIMA and IFHIMA-Europe past president
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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 2017:
- LinkedIn group EFMI-HIME: Number of members: 472
- Participation in ICIMTH2017 15th International Conference on Informatics, Management and Technology in Healthcare Athens, Athens
- Support of Special Topic Conference STC2017 “Assa Reichert” in cooperation with Israel Health Information Management Association, 23-24 Oct 2017, Tel Aviv, participation, evaluation of papers and editing of the proceedings IOS-press
- Organisation of eHealth Session and workshop and presentation at Digital Economy Show DES2017, 14-16 June 2017, Guadalajara/ Mexico
- Support of and participation in ICIST2017, Druskininkai Lithuania, Session “eHealth Information Management Systems” Lithuania, 12-15 October 2017
- Organisation of a seminar on Big Data at Kaunas Technical University and Health University Kaunas
- Discussion of possible conferences in Europe during MICE events IBTM, MICE-peak, etc.

Activities planned for 2018:
- Organisation of discussions and promotions on the LinkedIn group EFMI-HIME
- Publications in proceedings, books and journals
- Participation in ICIMTH2018, 16th International Conference on Informatics, Management and Technology in Healthcare Athens
- ICIST2018, Druskininkai Lithuania, Session “eHealth Information Management Systems” and Satellite Conference in Kaunas / Lithuania
- Seminar at Kaunas Technical University (KTU)
- Preparation and support of a special conference in Tomsk, Russia
- Support in the organisation of STC2019 Hannover
9.6 HOFMI - Human and Organizational Factors of Medical Informatics

Chair:
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Co-Chair:
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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 2017:

- A successful HOFMI working group meeting was held at MIE 2017 in Manchester. This included a presentation by Maria Hagglund on patient accessible electronic health records, introducing Consumer Health Informatics (CHI) as a specific topic of interest within HOFMI.
- A HOFMI sponsored workshop was held at MIE 2017 on 'Reinventing heuristic evaluations: exploring methods to engage clinicians in usability evaluations'.
- A mailing list for the HOFMI working group has been created, to provide working group members with details of relevant conferences and workshops. To join, please sign up at: https://www.jiscmail.ac.uk/cgi-bin/webadmin?A0=HOFMI-EFMI
- A LinkedIn group has also been created for the HOFMI working group, to help connect researchers and practitioners working in this area. The group can be found here: https://www.linkedin.com/groups/8448126

Activities planned for 2018:

- A working group meeting will take place at MIE 2018 in Gothenburg in April. As part of this meeting, plans will be made for panel and workshop proposals for MedInfo 2019.
- Two workshops supported by the group will take place at MIE 2018:
  - Participatory Inspection-Based Evaluation Techniques: Engaging Clinicians in Usability Evaluations (Wednesday April 25th, 15.30 to 17.30)
  - How to overcome barriers to user-based usability evaluations faced with older people? (Thursday April 26th, 10.30 to 12.00)
• The working group is supporting the “Context Sensitive Health Informatics - CSHI” conference that will be held in Lille, France, August 23th-24th, just before MedInfo 2019.

• A mentorship scheme is being set up to encourage and support those working in the area of human and organisational factors who have not previously had a paper at MedInfo to submit a paper for MedInfo 2019. If you would like to take part, either as a mentee or mentor, please email Rebecca.

Relevant Publications 2017:
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:
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Website: https://www.efmi.org/workinggroups/ides-information-and-decision-support-in-biomedicine-and-health-care

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 2017:**

• Round table “Developing and validating clinical decision rules”, moderator: Mark Ebell, College of Public Health, Epidemiology and Biostatistics, University of Georgia, USA, April 13th 2017, venue: University of Zagreb, School of Medicine, Zagreb, Croatia
• Predictive model development in prediction of the success of haemodialysis arteriovenous fistulas based on intraoperative vein distensibility, (research, B. Fila PhD thesis defended on July 13th 2017., Zagreb, Croatia)
• Individual presentations

**Activities planned for 2018:**

• Working group meeting in Croatia during EFMI STC 2018 in Zagreb, Croatia
• GO-FAR score validation in Croatian regional settings (research project)
• Individual presentations at different meetings focused on decision support topics

### 9.8 LIFOSS - Libre/Free and Open Source Software

**Chair:**
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**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 2017:

- Contribution to Informatics for Health 2017/MIE 2017, Manchester, UK
- Support Open Source Village at Med-e-Tel 2017
- Maintenance of MedFLOSS database
- Coorganization of IWEEE 2017 and GNUHealthCon 2017, Las Palmas de Gran Canaria
- Review of state of FLOSS in health care on a global level
- Further promotion of FLOSS in health care in Europe as well as on a global level

Activities planned for 2018:

- Contribution to the IMIA Yearbook 2018
- Co-organization of IWEEE 2018, 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:
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No report for 2017

9.10 MIP - Medical Image Processing

Chair:
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Co-Chair:
Jamshid Dehmeshki
Faculty of Science, Engineering and Computing
No report for 2017

9.11 NLU - Natural Language Understanding

Chair:
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Co-Chair:
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No report for 2017

9.12 NURSIE - Nursing Informatics in Europe

Chair
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Co-Chair
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Secretary
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Website: https://www.efmi.org/workinggroups/nursie-nursing-informatics-in-europe
Facebook: Nursing Informatics in Europe, @efmi.ni
Vision:
To advance International co-operation and dissemination of information in nursing informatics on a European basis.

Mission:
To function as a working group under the European Federation for Medical Informatics (EFMI). To support nurses and nursing organizations in the European countries with information and contacts in the field of informatics. To establish special nursing sessions at MIE conferences. To use social media to share knowledge between members.

Selection of members
Current membership countries with appointed representatives are Austria, Belgium, Croatia, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Israel, the Netherlands, Norway, Portugal, Romania, Slovenia, Spain, Sweden, Switzerland and the UK. In addition, observers may attend annual assemblies at MIE conferences.

Activities: Medical Informatics Europe, Manchester, April 2017
MIE 2017 in Manchester was conducted by EFMI and the European group were very active. The prize for the best presentation was given by prof. Paula Procter, UK. This congress had more than 700 participants sharing their work. The proceedings with more than 600 pages is available by IOS Press at https://www.iospress.nl/book/informatics-for-health-connected-citizen-led-wellness-and-population-health/

At this conference the board of the Nursing Working Group WG 5 was organized and now consist of three people. This board has been working on a strategy for the first year, including:

1. Terms of Reference
2. Change of name for the WG to NURSING INFORMATICS (NI).
3. A logo for the WG
4. A vision and mission for the WG
5. A strategy for using social media. The first step is an active Facebook page: “Nursing Informatics in Europe”.
6. A strategy for being more visible at the upcoming MIE 2018 conference.
7. A strategy for rewarding the best poster and oral presentations at the MIE 2018 conference.

9.13 PCI - Primary Health Care Informatics
Chair:
Simon de Lusignan
Clinical Informatics and Health Outcomes Research Group
Department of Health Care Management and Policy
University of Surrey, UK
No report for 2017

9.14 PPD - Personal Portabel Devices

Chair:
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Co-Chair:
Peter Pharow
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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:

- Personal(ized) 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 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 was invited as keynote speaker
- Active participation in EFMI STC 2017, Tel Aviv, Israel – Lenka Lhotska and Peter Pharow were members of the SPC

Activities planned for 2018:
- Strengthening the links to relevant societies and their working groups
- Active participation in preparation of the Jana Zvarova Memorial Conference 2018, Prague, Czech Republic
- Active participation in Jana Zvarova Memorial Conference 2018, Prague, Czech Republic – Lenka Lhotska is one of the speakers
- Active participation in pHealth 2018, Gjovik, Norway – Lenka Lhotska and Peter Pharow are members of the SPC and Lenka Lhotska is invited as keynote speaker

9.15 SSE - Security, Safety and Ethics

Chair:
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Co-Chair:
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Website: http://wg.efmi.org

Main Objectives:
Speed up the use of ICT for health care to increase 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, to find solutions for trustworthy interoperable health systems and to analyze the impact of new healthcare and health management models to security and privacy.

Relevant Activities 2017:
- During MIE 2017 in Manchester, SSE organized a Workshop on “Security and Privacy Standardisation in Healthcare - Impact on Patient’s New Roles”. The topic was around
standards and initiatives on security and privacy in healthcare with a focus on patients’ security and considering the current trend on patient empowerment.

- The objective of the Workshop was to clarify issues such as the use of security and privacy standards in connection to patients and the access to their information, the need for an explicit representation of patients’ policies (expectations, decisions, rules, etc.), and the need for secure applications for enabling patients’ private access. In addition, to highlight patient’s empowerment and its implications on security and privacy.

- The Workshop presentations are available at the WG’s web site. The main topics raised during the discussion between the 20 participants included: 1) how to handle sensible information for a patient, 2) providing access to information is only a first step towards patient empowerment, 3) how patients may control health big data analytics, 4) how to handle different rules/laws in different countries (or even inside the same country!), 5) low/high flexibility of the future European GDPR (General Data Protection Regulation), etc.

Activities planned for 2018:

- Develop a long-term activity plan for SSE, discuss on it and accept the plan in the formal Business Meeting to be held during MIE 2018.

- 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. Promote the LinkedIn group of the WG.

- 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 for MIE 2018 in Gothenburg. This will be again a joint workshop with IMIA WG SiHiS. The Workshop topic will be “EU GDPR - Security implementation in health information systems”. 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 implementation strategies for the EU GDPR in secure e-health, and some of its general security aspects.

Relevant Publications 2017:


9.16 THI - Translational Health Informatics

Chair:
Amnon Shabo (Shvo)
Philips
E-mail: amnon.shvo@gmail.com

Co-Chair:
Mauro Giacomini
DIBRIS, University of Genova, Italy
E-mail: Mauro.Giacomini@dibris.unige.it

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:

- Develop criteria for evaluating software solutions claiming to support translational informatics
- Promote the vision that translational info-structure can serve both healthcare and research, harmonized by THIL (Translational Health Information Language)
- Promote the need for an expressive THIL aimed at underlying translational info-structure (see details in the document "Towards Translational Health Information Language")
- Support studies focusing on informatics underlying translational research and medicine
- Foster better interrelation of bioinformatics and medical informatics

Relevant Activities 2017:

- The main activity is sponsoring the EFMI STC on clinical research: heading the STC SPC and planning THI special event
- Eventually, there was a change in location from Aachen to Hanover and consequently deferring it to 2019 so activities were slowed down a bit

Activities planned for 2018:

- Planning activities related to the STC 2019, which is held in collaboration with the THI Working Group
- Organization activities related to the eighteenth NETTAB Workshop (Genoa – IT October 2018) in collaboration with ELIXIR Nodes of the UK and Italy ([http://www.igst.it/nettab/2018/](http://www.igst.it/nettab/2018/)). The main focus will be on FAIR principles in bioinformatics, a challenging topic that we hope will attract many researchers from all
over the world, including but not limited to, Bioinformaticians, Biologists, Computer Scientists, and others working or interested in the above research scope.

- In particular, planning of a special event where vendors of solutions supporting translational research / medicine will show case their solutions and compare them with the THI WG criteria.

**Relevant Publications 2017:**

- Roberta Gazzarata, Maria Eugenia Monteverde, Elena Vio, Claudio Saccavini, Lorenzo Gubian, Idelfo Borgo and Mauro Giacomini “A Terminology Service Compliant to CTS2 to Manage Semantics within the Regional HIE” European Journal for Biomedical Informatics, 2017, vol. 13, Issue 1, pp. 43-50
10 Appendix 4: Reports from Council Task Forces and Committees

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

At the 76th Council in Manchester the task force proposed to have IMIA's code of ethics as EFMI code of ethics. This proposal has been approved by the Council. The Council then closed the taskforce and thanked George Mihalas and the taskforce for their work and commitment.

10.2 Accreditation and Certification Committee (AC2)

The Accreditation and Certification initiative was launched by the EFMI President and was endorsed by the EFMI Executive Board under consultation with the EFMI WG EDU Chair.

The EFMI Executive Board established a Task Force to investigate, develop, and implement the Accreditation and Certification initiative.

The Chair and the Members of the Task Force developed a document describing the overall position on Accreditation and Certification initiative, which was submitted as an Addendum to the report to the Council in Manchester.

The report was presented extensively during the previous Council meeting in Manchester and after the approval by the Council, the President moved to the implementation phase by appointing the Accreditation and Certification Committee after thanking the Task Force members for their work. The appointed members of the AC2 Committee are members of the EFMI Council, therefore, empowering the whole process of implementation phase.

Activities reported by the AC2 Committee were:

- Discussions that Anne Moen and John Mantas held with the President of AMIA during the EU presidency conference in the eHealthWeek2017 in Malta, May 2017.
- Discussions that Anne Moen had as IMIA VP for EFMI at the Board both in Vancouver and in Hangzhou regarding the collaboration of EFMI with IMIA.
- Workshop during MIE 2017 in Manchester introducing the AC2 initiative. Speakers were the President Christian Lovis, John Mantas and it was moderated by Anne Moen.
- Panel discussion at Medinfo 2017 titled “Workforce development and the role of Informatics Associations” organized by AMIA with EFMI participation on accreditation, education, and other healthcare workforce related issues (Appendix I).
- Meeting at Hangzhou regarding the IMIA initiative to ‘edit’ the educational recommendations led by the President-elect Sabine Koch.
- Procedures of re-accreditation of programs (already accredited by IMIA) were decided to be supported. Arie Hasman and John Mantas were invited to form the re-accreditation site visit committee to evaluate the programme of the University of Eastern Finland. The site visit has been successful in February 2018 and report submitted.
The AC2 committee initiated the commencement of their works by a Skype meeting on September 14, 2017. Everybody was present at the meeting and the Chair and Anne Moen informed all members about the status, the discussions with IMIA, and the tasks that should be done.

The Committee decided to request funding by EFMI in order to update the existing on-line database of educational programs across Europe and collect additional information such as contact details of program directors and details on their programs. This information is considered necessary to successfully continue the accreditation procedures as EFMI should act in a pro-active way and be able to disseminate the AC2 initiatives directly to the appropriate audience. The Board has approved the funding of this activity, and Ms Katia Kolokathi was hired to fulfil the assigned tasks.

Initial results were presented at the Skype meeting of the AC2 members in early January. It also discussed how the collection should be pursued and what were the priorities set out. Plans for next presentations at MIE 2018 were discussed and decided.

So far, till end of March, the work performed surveyed 26 European countries, 620 Universities, and accessed and found 413 academic programmes in the related to Biomedical and Health Informatics, including Bioinformatics and Biomedical Engineering. From those 413 programmes, 126 were undergraduate, 225 postgraduate, and 62 PhD programmes. The work on the survey continues, and final compilation results will be presented at the EFMI STC 2018 in Zagreb.

The Committee will organize during MIE 2018 in Gothenburg a plenary session to promote and provide awareness of the Accreditation and Certification initiative to the wide biomedical and health informatics community, and to present intermediate results of the current survey of the educational programmes in Europe.

Report prepared by The Members of the Accreditation and Certification Committee:

- Catherine Chronaki
- Arie Hasman
- John Mantas (Chair)
- Anne Moen,
- Inge Madsen,
- Rebecca Randell
11 Appendix 5: Reports from the National Members

11.1 Croatia / Croatian Society for Medical Informatics (CroSMI)

*Representative: Mira Hercigonja-Szekeres*

*Events*

**The 2017 Annual General Assembly**
The 2017 Annual General Assembly of the CroSMI was electoral. Two conclusions are important: a new leadership was chosen and a decision was made on the organization EFMI STC 2018 in Zagreb. New CroSMI chair is Marijan Erceg, vice-chair Zdenko Sonicki, secretary is Davor Fanton, new Board member is Kristina Fišter.

**MI 2017**
Thirteenth symposium Medical informatics 2017 (MI 2017) has been organised by the CroSMI, which gathered more than eighty experts from Croatia and abroad. Main topics of the MI 2017 was data protection, education in medical/health informatics and health information systems. All submissions are published in Proceedings (print and on line).

*Publishing*
In 2017 CroSMI published two issues of CroSMI Bulletin available on CroSMI web pages.
In 2017 CroSMI started with publishing of electronical CroSMI News which are send to CroSMI members and decision makers in health institutions.

*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 Informatics for Health 2017, EFMI STC 2017, MEDINFO 2017 and at some other professional conferences in the field of Health/Medical Informatics, Informatics and Medicine.
11.2 Finland / Finnish Social and Health Informatics Association (FinnSHIA)

Representative: Kristiina Häyrinen

The main objective of the Finnish Social and Health Informatics association is to maintain both international and national links between actors of the social and health care informatics. The activities of the association focus on international relations (IMIA, EFMI and HUSITA), expanding the membership base and maintaining a web site and an e-mail list for information dissemination.

The main event of the association is the annual national Social and Health Care Informatics Research Days (SoTeTiTe-tutkimuspäivät).

FinnSHia has published the Finnish Journal of eHealth and eWelfare (www.finjehew.fi) since 2009. Finnish Journal of eHealth and eWelfare (FinJeHeW) is a scientific journal established by the Finnish Social and Health Informatics Association (FinnSHIA) and the Finnish Society of Telemedicine and eHealth (FStEcH).

Finnish Social and Health Informatics Association is also a Member Organization of IHE International.

Members of the society actively participate in EFMI and IMIA working groups. Many of our members work either in national institutions, in different universities or in organizations that implement and develop Finland’s National health information system services which are already widely used in Finland.

Board members 2017-2018

- Chairman: Dr. Kristiina Häyrinen, kristiina.hayrinen(at)gmail.com
- Vice-chairman: Dr. Juha Mykkänen, juha.mykkanen(at)thl.fi
- Secretary: Ms. Jaana Lopperi, jaana.lopperi(at)2m-it.fi
- Information Officer: Dr. Ulla-Mari Kinnunen, ulla-mari.kinnunen(at)uef.fi
- Treasurer: Ms. Sari Nissinen, sari.nissinen(at)ttl.fi
- Responsible for marketing: Dr. Sari Palojoki, sari.palojoki(at)hus.fi
- Dr. Alpo Värri, alpo.varri(at)tut.fi
- Dr. Persephone Doupi, persephone.doupi(at)thl.fi
- Dr. Reima Suomi, reima.suomi(at)utu.fi

FinnSHIA web site: https://www.stty.org/in-english

11.3 France / Association française d’Informatique Médicale (AIM)

Preparation of MEDINFO 2019 (Lyon, August 26-30, 2019)

AIM is organizing the MEDINFO 2019, on behalf of the International Medical Informatics Association (IMIA). We worked on the contractual issues (contract signed with IMIA and with MCO Congrés, a company specialized in congress organizations). We begun working on all the practical issues related to the organization of MEDINFO 2019, and are participating to the Scientific Program Committee. The tracks have been validated. Some French sessions too. Information and registration on the website www.medinfo-lyon.org will be online shortly.

2) Organization of scientific meetings in 2017:

- **Nancy, March 23, 2017**: co-organization of a session “Information Systems” in the EMOIS meeting
- **Paris, May 17, 2017**: organization of a one-day meeting “informatics for the general practitioner”
3) Organization of scientific meetings in 2018:
- **Montpellier, March 29-30, 2018**: co-organization of a session “Information Systems” in the EMOIS meeting
- **Nancy, July 3, 2018**: co-organization of a session “Artificial Intelligence and Health” within the framework of the Artificial Intelligence Platform 2018, and in partnership with the French Association for Artificial Intelligence (AFIA)
- **Marseille, November 19-20, 2018**: co-organization of sessions “From Portfolio of competencies to Learning Analytics: Applying to medical curriculum” within INNOV’inMED

4) Participation to the works of scientific societies or established bodies
- Membership of EFMI
- Membership of the French “Strategic Council of Numeric tools for Healthcare”
- Invited to auditions by the French “Ordre des Médecins”
- Invited to auditions by the French “Conference of General Directors of University Hospitals”, about the development of Big Data for healthcare

### 11.4 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](http://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”. This year the Jahrestagung had the motto “German Medical Data Sciences: Visions and Bridges” and was held in Oldenburg. It attracted 600 participants. It was the first time having a considerable amount of papers of this German conference documented in IOS proceedings. Next annual congress will be in Osnabrück under the motto “The Learning Healthcare System”. Some international sessions including a Japanese/German workshop are planned.

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:
- Strengthening Medical Bioinformatics and Systems Biology by founding a special GMDS devision.
- Ongoing international cooperation in Epidemiology especially with the Society for Epidemiologic Research (SER).
- Workshops and statements about the EU General Data Protection Regulation.

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In 2017 four consortia in the German Medical Informatics Initiative\(^7\) started their projects. The initiative was created to close the gap between research and healthcare. Nearly all of Germany’s university hospitals have joined forces with research institutions, businesses, health insurers, and patient advocacy groups to realize Data Integration Centers. GMDS is strongly supporting this initiative.

GMDS is governed by a board representing its disciplines Medical Informatics, Medical Biometry, Epidemiology, Health Data Management and Medical Bioinformatics. The board is currently chaired by Andreas Stang; names of all board members can be found at [https://gmds.de/ueber-uns/organisation/#c309](https://gmds.de/ueber-uns/organisation/#c309).

### 11.5 Norway / Norwegian Society for Health Informatics (NorHIT)

**Events**

NorHIT arranged the health informatics conference “eHelse 2017” 3-4 May, and “eHelse 2018” 18-19 April in cooperation with the Norwegian Nurses Organisation and the Norwegian Medical Association. The topic for the 2018 conference was cooperation between the Nordic countries, and speakers from Denmark and Sweden as well as Norway participated.

**Membership**

NorHIT has been working actively with its Norwegian parent organisation The Norwegian Computer Society to make membership more attractive to active clinicians of all professions. This work has led to a trial of a Health Sector Membership available to individuals whose working hours are primarily spent in clinical practice.

**Network groups**

The Norwegian Computer Society is encouraging the formation of health informatics/e-health professional network groups in all the Norwegian regions. The intent is that NorHIT would be a national parent for these network groups.

**Other activities**

Some members of NorHIT were active participants at MedInfo 2017, EFMI STC 2017, and at some other professional conferences in the field of Health/Medical Informatics, Informatics and Medicine.

### 11.6 Greece / Greek Biomedical and Health Informatics Association (GBHIA)

**Representative: John Mantas**

At national level, GBHIA members serve in several professional and scientific communities and in several administrative educational and healthcare domains, such as in secondary and tertiary and academic level education in the field of Biomedical and Health Informatics. Furthermore, the association’s members serve in the health services from the professional level up to the managerial highest positions of Directors of Hospitals and Health Services. GBHIA organizes annual educational and professional meetings among its members with active participation of healthcare professionals of the healthcare services. The domains of interest span from Education in Biomedical and Health Informatics, mHealth and eHealth applications, Nursing Informatics, interoperability and standards, big data and analytics.

The Association was established in 1998 as Greek Health Informatics association and later on 2015 changed its name Greek Biomedical and health Informatics association to expand its possibilities to and adapt to the expanding domain.

From 16 years the association established a yearly international conference, now known as ICIMTH (International Conference in Informatics, Management, Technology in Healthcare). The annual conference till 2013 was organized at the island of Samos and henceforward in Athens. The Conference (http://www.icimth.com) contributes to the field and is considered of high quality, which encompasses informatics with management, a very important concept that facilitates and contributes to the quality of care. The combination of scientific quality and cultural experience as well as the collegiate atmosphere is unique and it worths to be experienced.

GBHIA 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, eHealth 2017 in Malta, at MIE in Manchester, STC in Tel Aviv, and MIE2018 in Gothenburg, Sweden

GBHIA Board:
- John Mantas <jmantas@nurs.uoa.gr> president
- Parisis Gallos <parisgallos@yahoo.com> vicepresident,
- Spyros Zogas<spirosz@nurs.uoa.gr> secretary.

GBHIA website address http://www.gbhia.com

11.7 The Russian Federation / National Association of Medical Informatics of Russia (NAMI)

The work of the National Association of Medical Informatics (NAMI) was focused in several directions.

Educational-methodical direction of development of medical cybernetics and informatics
- Support for the development of federal state educational standards for higher education in the specialty "Medical Cybernetics"
- Conducting an independent expertise of the Projects of the Federal State Educational Standards for Higher Education (F1 OS VO) on specialty "Medical Cybernetics"

As a result, the Federal State Educational Standard of Higher Education on specialty "Medical Cybernetics" iwas approved and accepted for use.

Development of an integrated information space of healthcare
- Organization of expert work on the basis of NAMI's permanent groups for the creation of federal reference data, such as the directory of "Active Substances of Drugs", the directory of "Laboratory Research".

Federal directories were developed, approved and accepted for use.
- Organization of expert work on the basis of Regional Councils of NAMI to create unified solutions in the field of assessing the level of informatization, including: "Evaluation of the level of informatization of medical organizations; "Integral assessment of the level of regional informatization".

The proposed solutions are taken as a basis for the creation of regional solutions and are taken into account in the draft regulatory and legal acts in the field of regulation of information systems in the health sector.
International Expert Activities within the Organisation for Economic Co-operation and Development (OECD)

- Organization of expert work on the basis of cooperation with health authorities under the draft "OECD Recommendations on the Use of Medical Data" developed by the OECD.

The proposed solutions are taken into account in the Russian comments on the draft, sent to the OECD.

Cooperation with other Russian Associations and Organizations in Medical Informatics

NAMI worked actively in cooperation with "Portal RAMS" (institutional member of the IMIA), the Association for the Development of the Medical Information Technologies (ARMIT, organizer of the annual spring national conference MedSoft ) and "KONSEF" (organizer of the annual autumn conference “Information Technologies in Medicine”, ITM).

Regular working group activities, think tanks and consensus sessions were held in the city of Moscow. Events were supported (and attended by the members of) by the Ministry of Health of the Russian Federation, ROSZDRAVNADZOR, Ministry of Education and Science of the Russian Federation, federal and regional executive bodies, professional and scientific organizations.

Separately, Portal RAMS together with the National Association of Medical Informatics continue to organize monthly/bimonthly one-day Topic Sessions of its Working Group on IT in Medicine (held in Moscow since 2006) that have for the last 2 years been focused on virtual medicine, telemedicine and mHealth. The Working Group sessions are facilitated and broadcast nationally in partnership with the Higher School of Economics (hse.ru), and published on Portal RAMS YouTube channel <https://www.youtube/user/MIATSRAMN>

NAMI and Portal RAMS members continue to participate in IMIA and EFMI activities along with attending several primary international conferences (IMIA 2017, Hangzhou, China, HIMSS, MIE and STC 2015, 2016). Among specialized conferences, Portal RAMS members concentrated on areas of mobile health, telemedicine and cross-border medical care provision with the assistance of information technologies (ATA, CHC, BRICS (India, China), South Korea).

With the assistance of NAMI, EFMI activists B. Blobel and J. Mantas visited Moscow as special guests of the above-mentioned autumn conference ITM 2016 and 2017 respectively.

11.8 Sweden / Swedish Federation for Medical Informatics (SFMI)

Chair: Daniel Karlsson
National Board of Health and Welfare, Sweden
daniel.karlsson@socialstyrelsen.se

Co-chair: Rikard Lövström
National Board of Health and Welfare, Sweden
rikard.lovstrom@socialstyrelsen.se

Main objectives:
The association's purpose is to promote the development of IT in healthcare, primarily through

- research and education in medical informatics through, among other things, arrangements for meetings with scientific lectures and discussions
- organize lectures at meetings of The Swedish Society of Medicine
- deliver statements or handling cases referred to the section from the society
- promoting international development through membership of The European Federation of Medical Informatics (EFMI) and The International Association of Medical Informatics (IMIA).

The Board appoints the association's representatives in EFMI and IMIA.

Relevant activities in 2017:
- planning for organisation of MIE 2018
- planning for the Swedish health IT conference ”Vitalis” with 4500 visitors
- organisation of MIE 2018
- arrangement of the 21st 2 days long conference ”Days About Laws” which was visited by 132 participants
- open meetings discussing medical informatics in general and education in health informatics specifically

Activities planned for 2018:
- further organisation of MIE 2018, Vitalis and Days About Laws conferences
- develop methods for professional participation in standardisation and documentation of both structured and narrative information
- develop and establish collaboration with The Section of Nursing informatics within The Swedish Society of Nursing, The Swedish Association of Medical Technique and Physics, The Association of Narrative Medicine, the informatics courses at Swedish universities and Swedish health care providers
- Visit with other countries and their health informatics initiatives and conferences, e.g. The eHealth in Norway conference http://ehin.no/.
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 28 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 2017 - Manchester, UK (part of Informatics for Health 2017)
- 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 16 STC congresses have been organized by our member societies:

- STC 2017 – Tel Aviv, Israel
- 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

**IOS Press series “Health Technology and Informatics”**

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.

**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/](http://www.ejbi.org/en/about/)

**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/

Acta Informatica Medica
Acta Informatica Medica (Acta Inform Med) is a peer-reviewed, open access journal publishing original articles, professional articles, reviews, viewpoints, and case studies, covering issues in Medical and Health informatics.

The journal is the official organ of the Society for Medical Informatics of Bosnia and Herzegovina, European Federation for Medical Informatics (EFMI) and published by the Academy of Medical Sciences of Bosnia and Herzegovina. Issues are published quarterly in March, June, September, and December.

Specific scope of interests of the journal relates to System and System analysis, Medical documentation, Electronic health records, Clinical decision-making, Artificial intelligence, Expert systems, Science editing, E-learning in medicine, On-line biomedical databases, Information and Communication technologies, Health information systems.

More information can be found at: http://www.actinformmed.org/
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 2017 Rosy Tsopra (France) and her co-authors won the price for the paper “Design of a visual interface for comparing antibiotics using rainbow boxes” (pubmed-id 28423849).

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 2017 has not been awarded.

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 2017 David Infante won the price for the poster “The Quantified Outpatient - Challenges and Opportunities in 24hr Patient Monitoring”.
**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.

In 2017 Paula Procter (UK) won the prize for the paper “Ubiquitous adoption of innovative and supportive information and communications technology across health and social care needs education for clinicians” (pubmed-id 28423814).