



MIE 2011

User Centered Networked Health Care



23rd International Conference of the European
Federation for Medical Informatics

28-31 August 2011 - Oslo, NORWAY
www.mie2011.org



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EFMI President
Professor John Mantas

Dear Participants,

On behalf of EFMI, I would like to welcome you in Oslo at MIE2011. Oslo extends to all of you a very warm welcome to the major event in Europe in the field of Biomedical and Health Informatics.

The local organising committee as well as the scientific programme committee have during the last year worked very hard to prepare the best possible scientific, technological as well as cultural achievement.

Our field evolves at tremendous paces in both theoretical and applications field. The objective of Biomedical and Health Informatics from the informatics point of view is to focus on the processing of data, information and knowledge in health care and medicine with a strong emphasis on the need for advanced knowledge and skills, of workflow, people and organisational aspects, of mathematics, as well as of theoretical, practical and technical informatics/computer science, especially semantic interoperability, ontology based software engineering and its

relationship with effective and safe data, information and knowledge processing and representation. In addition, the objective of Biomedical and Health Informatics from the health care point of view is again to focus on the processing of data, information and knowledge in health care and medicine requiring, apart from knowledge in the field, also knowledge in medicine or other health sciences to such an extent that can only be imparted within the scope of a biomedical or health science education.

All these challenging and important issues will be discussed in this Conference in a programme that includes keynote speeches, scientific sessions, panels, workshops, demonstrations and educational presentations as well as exhibitions and scientific visits to state-of- the-art hospitals and cutting edge scientific facilities.

Dear Participants, enjoy the Programme of MIE2011 and the Norwegian Hospitality.

Welcome.



Chair, Scientific Programme Committee
Dr. Jos Aarts

Words of welcome

Health informatics is a human activity par excellence. Health information technology is meant to support patients, health care professionals and managers, and policy makers. While it is still difficult to assess the impact of our field in terms of patient and process outcomes, one thing is sure: if we unplug our electronic systems, health care would collapse.

At MIE2011 we aim to highlight the position of the user who lives in a networked environment. It encompasses not only information systems that are linked together, but also social media that create new virtual worlds for citizens, whether they are patients or professionals. The theme for MIE2011 "User-Centered Networked Health Care" links to the Scandinavian tradition of involving workers in how technology should be used in workplaces to tap a rich source for human focused health IT research. To fulfill the promises for a robust user centred networked health care, health information technology and the underlying principles to represent data and knowledge should be well understood, standards well developed and deployed, benefits well articulated and the position of the users and stakeholders properly addressed. Therefore the conference addresses topics that have been traditionally part of health informatics conferences as well as themes emerging from the ongoing development of health care.

The Scientific Programme Committee received close to 500 submissions, which resulted in 208 oral presentations of full papers and short communications, 25 workshops, 5 panels, 56 posters and 7 demonstrations, given by colleagues from all over the world. We acknowledge the hard work of the authors and the reviewers.

To strengthen the dynamics and interactions between research accomplishments and application development, MIE2011 emphasizes the importance of innovations in health informatics. For that reason it has established the Partnership in Innovation track to strengthen collaboration between EFMI institutional members, corporate affiliates and academic researchers, and the "MIE Village of the future" to feature research-driven innovations on the way to the market.

The SPC has invited outstanding scholars from various backgrounds as keynote speakers to the conference. They cover broad aspects of our field ranging from standards to patient safety. We hope that you as delegates to MIE2011 will be encouraged by their views and visions. The opening session will take place at Akershus University Hospital, a hospital that is at the vanguard of modern technology. We hope it will provide a stimulating environment for discussions how health care will develop.

On behalf of the Scientific Programme Committee I wish you a heartfelt welcome to MIE2011.



LOC chair
Petter Hurlen



**Chair of FDH and
LOC co-chair**
Anne Moen

Welcome to MIE2011

We are proud to welcome you all to MIE2011 and Oslo, Norway. Looking back, when the Norwegian Society for Medical Informatics hosted MIE in 1988, the conference was vibrant with sharing of new ideas, of prototypes demonstrating how health professionals could improve their daily work, and of hope for how this new technology could improve health care in the future. Today, at MIE2011, twenty-three years later, the future is here. Our clinical environments are full of health informatics achievements like electronic health records, digital images, automated medication handling, work lists, to mention a few, to support health professional in most areas of health care; community health, primary care and hospitals.

However, Information and Communication Technology is not only replacing manual tasks – new forms of interaction and coordination between professionals emerge. The doctors and nurses of today will access the electronic record for information rather than consult a colleague, go to the web for images rather than to the radiology department, or call up the messaging system rather than go to the ward for updates and instructions. Health professionals meet a new reality with new opportunities – but also new challenges. How is this reality, what are the challenges, and how can we learn from the merging experiences?

These were among the questions that led us to the theme of this conference – focusing on the users in a networked health care. We hope the discussions during the MIE2011 conference will contribute to a broader understanding of such questions.

New hospitals today are not only built with advanced technology, they are founded on advanced technology. Akershus University Hospital, opened in 2008 and finalized this year, counts as one of the technologically most advanced hospitals in Europe. We are of course very grateful that the hospital invited us to study their achievements and learn from their experiences. We hope the hospital visit will set the scene for the conference.

For MIE2011, we have tried to build upon the tradition and experiences of past conferences, but also to add some new elements that we hope you will enjoy. The hospital visit is one of the new additions to the MIE conferences. In addition, we are exploring new submission formats, like Short Communications, and we offer you the new, application oriented initiatives “Partnership in Innovation” and MIE Village of the future featuring achievements ready to be implemented.

It is our hope that you will enjoy the rich program offered during MIE2011, as we welcome you to take part in these diverse activities.

LOC -**Local Organizing Committee**

Petter Hurlen, Akershus University Hospital, **Chair**

Anne Moen, University of Oslo and FDH, **Co-chair**

Morten Amundsen, Friprogsenteret, Tromsø

Dag Ausen, Sintef

Gustav Bellika, University of Tromsø

Roald Bergstrøm, KITH and Meditnor

Kjell Borthne, Akershus University Hospital

Marte Bø, Oslo University Hospital

Arild Faxvaag, NTNU

Kathy Mølstad, Sykepleieforbundet

Karl Øyri, Oslo University Hospital

EFMI Liaison

Stig Kjær Andersen, EFMI Executive Officer

EFMI Board Members

John Mantas - EFMI President

Patrick Weber - EFMI Vice President

Jacob Hofdijk - EFMI and IMIA Vice President for Europe

Christian Lovis - EFMI Secretary

Etienne de Clercq - EFMI Treasurer

Rolf Engelbrecht - EFMI Press and Information Officer

György Surján - EFMI Publication Officer

Stig Kjær Andersen - EFMI Executive Officer

M. Cristina Mazzoleni - EFMI Institutions Liaison Officer

Awards committee chairs

Professor Dr. Elske Ammenwerth

Dr. Sabine Koch

Dr. Ronald Cornet

SPC -**Scientific Programme Committee**

Jos Aarts, Erasmus University, the Netherlands **Chair**

Anne Moen, University of Oslo, **Co-chair**

Alexander Horsch, University of Tromsø Norway and Technische Universität München, Germany **Co-chair**

Workshops and Panels

Stig Kjær Andersen, Aalborg University, Denmark EFMI Executive Officer

Truls Østbye, Duke University Medical Center

Elske Ammenwerth, UMIT, Austria

Ronald Cornet, AMC, University of Amsterdam, the Netherlands

Sabine Koch, Karolinska Institutet, Sweden

Silvana Quaglioni, University of Pavia, Italy

Pieter Toussaint, Norwegian University of Science and Technology, Norway

Rolf Engelbrecht, USMF Chisinau, and EFMI press and information officer

Rune Fensli, University of Agder, Norway, SHI liaison

EFMI Board and Council are associated with the SPC

Awards

The Rolf Hansen Prize for best paper related to electronic patient records, sponsored by Siemens **SIEMENS**

The Peter L. Reichertz Prize to the best paper by a young investigator, sponsored by EFMI



Best Poster Award, sponsored by Casemix

CASEMIX

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Siemens offers a full spectrum of comprehensive, integrated solutions that help enable better care and lower costs across the healthcare continuum. By making information available when and where it is needed, our solutions enable better decisions and practices at the point of care and beyond. Our solutions within clinical IT can bring resource management and efficiency to the next level.

Visit us at stand 14 at MIE2011 and find out more about:

- DocuLive Electronic Patient Journal – including modules such as Pathology, Ultragenda, Nursing, Clinical Order Entry, Speech Recognition, Chart and Medication and Archiving
- Project Management
- Syngo Lab Process Manager
- Syngo.via, syngo.share og syngo.sense

DIPS**DIPS ASA**

DIPS ASA is the leading and largest supplier of eHealth systems in Norway. Three out of four Norwegian health regions, including 5 university hospitals, use DIPS solutions for electronic patient records and patient administration. DIPS products include work flow, medicine management, operation theatre planning as well as structured nursing documentation.

This concept of paperless hospitals is unique in the world and includes fully electronic clinical charts. DIPS ASA is foremost in the world in providing solutions aimed at clinical and medical users for support in the clinical treatment process and decision support. The value proposition to our customers is "Enabling efficient health care".

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HP is the world's largest IT company. The company has a wide portfolio ranging from software, IT infrastructure and enterprise services to printers and PCs. HP is developing IT solutions that have a meaningful impact on individuals, businesses, organizations and society. With its focus on developing environmentally friendly technologies, the company is at the top of the Newsweek list, Green Rankings.

More information about HP is available at www.hp.no

Marie-Catherine Beuscart-Zéphir



Dr. Marie-Catherine Beuscart Zéphir holds a PhD in cognitive psychology. She founded the Evalab, a usability lab dedicated to e-health and technologies for healthcare at the academic hospital of Lille. Her research interests include Human Factors Engineering and usability for health technologies and e-health, applied to applications like Computerized Order –Entry (CPOE), Clinical Decision Support Systems (CDSS), Patient Record systems (EPR/EHR) and homecare systems. Dr. Beuscart-Zéphir co-chair the IMIA WG and EFMI WG on Human (and Organizational) Factors.

Her keynote at MIE2011 is titled:

Human Factors and Usability for complex Health Information Technologies: Why do you care?

Susanna Palkonen



Ms. Susanna Palkonen is the Vice President of the European Patients' Forum EPF and Executive Officer of European Federation of Allergy and Airways Diseases Patients' Associations (EFA). She has been involved in patient organisations in Finland and Brussels for 15 years. She is a Member of the User Advisory Board of the Renewing Health project from the EC ICT Policy Support Programme. She is involved in a number of Patient and Consumer issues on the European Scene.

Her keynote at MIE2011 is titled:

New patient – new technologies, new networks

Stephen Kay



Professor Stephen Kay has been actively engaged in international standards development since 1987. He is a consultant on Health Informatics Standardisation and an honorary professor at the University of Salford in the UK. The relationship between research and standardisation within Health informatics has always fascinated him, and his research in Electronic Health Records, user centred design, narrative and story telling intertwines with standardising data interchange, understanding clinical communication architectures, and developing information models. He is the convenor of both CEN TC251 working group 1 on Information Models and ISO TC215 working group 1 on Data Structures; both have an emphasis upon conceptual modelling, service frameworks, and with electronic health records' specifications.

His keynote at MIE2011 is titled:

The Usability (or not) of Health Informatics Standards

Kirsten Haaland



Ms. Kirsten Haaland is a senior researcher at the Maastricht Economic Research Institute on Innovation and Technology in the Netherlands. She is a member of the Collaborative Creativity Group (CCG), a leading research group on open source software, open content, and collaborative creativity and innovation. She has extensive project experience, including FLOSSIMPACT focusing on open source on innovation and competitiveness of the European Union, the EU-funded “Free/libre/Open source software metrics and benchmarking study (FLOSSMetrics)” and the “QUALity in Open Source Software” (QualOSS) project. As an economist her responsibilities covers socio-economic analysis, such as business models and strategies, and community dynamics.

Her keynote at MIE2011 is titled:

Mastering Open Source Software challenges in a niche market.

Camilla Stoltenberg



Dr. Camilla Stoltenberg is MD and holds a PhD in epidemiology. She serves as Deputy Director General at the Norwegian Institute of Public Health with responsibility for strategic development of health registries. She serves as deputy chair for Biobank Norway (2010-2015). Her research is in perinatal and genetic epidemiology, studying causes of birth defects, stillbirth and infant death, consanguinity, health in immigrant populations, and social inequality in health. She is also principal investigator of Biobanks for Health in Norway (Biohealth), which comprises health data and blood samples from nearly 500,000 individuals. She is currently involved in a number of scientific research and strategic projects and committees nationally and internationally, most of them involving birth cohorts, registries and large population based biobanks.

Her keynote at MIE2011 is titled:

*When the whole population contributes to knowledge.
On health registries in Norway.*

Nick Barber



Professor Nick Barber holds a PhD in clinical pharmacology, and is currently joint Chair of the Centre for Medication Safety and Service Quality, School of Pharmacy, University of London. Professor Barber’s areas of research focus on the good and the bad with respect to medicines, society and the individual, and the role that pharmacy plays. The major portion of this work is in the area of the risks of using medicines incorrectly - by patients (nonadherence) or by professionals (medication errors). Professor Barber is particularly interested in the assessment of the use of technology to reduce errors, and in the development and evaluation of services to reduce errors and to improve adherence.

His keynote at MIE2011 is titled:

Envisioning the patient, medicines, technology triad.

Sunday 28 August		Akershus University Hospital (AHUS)
09:00	Bus transport from Radisson	
10:00	ACTIVITY 1	Meeting Point: Cantina AHUS main entrance
11:30	Coffee	
12:00	ACTIVITY 2	Meeting Point: Cantina AHUS main entrance
13:45	Lunch (lunch meeting for WG chairs)	
14:45	OPENING SESSIONS Official Opening Hospital experiences Keynote: <i>Beucart-Zépher</i> : Human Factors and Usability for complex Health Information Technologies: Why do you care?	AHUS Auditorium
17:00	GET TOGETHER Akershus University Hospital	
18:30	Bus transport from Hospital to Radisson	

Monday 29 August							
Room	S1 Helsinki	S2 København	S3 Stockholm	S4 Oslo	Foajé	N1 Skagen	
08:30	Plenary Keynote: <i>Palkonen</i> : New patient – new technologies, new networks					Exhibition	MIE2011
09:15	Coffee						
09:30	OPENING, Exhibition and MIE Village of the future						
09:45	Partnership in innovation 1) HL7/GS1	1 EHR Workflow	2 Terminolog Ontol. standards	3 Citizen centred e-Health			
11:15		Break					
11:30	2) Future Service Infrastructure	4 Decision support Knowledge mng.	5 Privacy and security	6 Modelling Storage, retr.			
13:00		Lunch					
14:00	Plenary Keynote: <i>Kay</i> : The Usability (or not) of Health Informatics Standards <i>Haaland</i> : Mastering Open Source Software challenges in a niche market.						
15:00	Coffee						
15:30	2) Future Service Infrastructure	7 Telemedicine Mobile health	8 Terminolog Ontol. standards	9 EHR Workflow			
17:00							
18:30	RECEPTION, Conference center, Radisson Blue Hotel					Exhibit and Village	

AHUS Activity code

- R: Electronic Patient Record**
- D: Diagnostic Imaging / Radiology**
- L: Laboratory**
- M: Medication automation**
- H: HealthCare of the future**
- C: Collaboration and continuity of care**
- P: Pathology**
- I: Information exchange and cooperation**
- T/N: Tour of the hospital (English/Norwegian)**

N2 Eidsvold	N3 Bergen	N4 Christiania	N5 Lofoten	N6 Finmark	Telemark	Corridor	
Village of the Future						NSFID "På tvers" (Norwegian)	Posters
	WS1 Evaluation	P1 Translational research	WS2 Telemed mobile health				
	WS3 Terminology standards	WS4 Citizen centred e-Health	WS5 Telemedicine Mobile h.				
	P2 Evaluation	WS7 EHR workflow	P3 Imaging biosignals				
	EFMI WG MIP - Horsch	Convergence by invitation - Lovis	EFMI WG Social Media - Luque				
	is open during reception						

Tuesday 30 August							
Room	S1 Helsinki	S2 København	S3 Stockholm	S4 Oslo	Foajé	N1 Skagen	
08:30	Plenary Keynote: Stoltenberg: When the whole population contributes to knowledge. On health registries in Norway.				Exhibition		
09:15	Coffee						
09:45	3) Horizon 2020 EU Partnerships Oslo Medtech, Norwegian Research Council, Teknologisk Insti- tutt and University of Oslo	10 Translation research	11 Terminolog standards	12 Evaluation		13 Education	
11:15		Break					
11:30		15 Usability HCI Cognitive issues	16 Evaluation	17 Citizen centred e-Health		18 Language process. Data mining	
13:00	Lunch						
13:45	Oslo Medtech	19 Desc. supp. Knowlede mng.	20 Terminolog Ontol. standards	21 Usability, HCI Cognitive issues		23 Public health, outbreaks	
15:15	Coffee						
15:30	FDH-DND	24 Lang. process. Data mining	25 Education	26 Citizen centred e-Health		WS16 Modelling, storage	
17:00						EFMI WG LIFOSS -Karopka	
19:00	CONFERENCE DINNER, Gamle Logen , Grev Wedels plass 2						

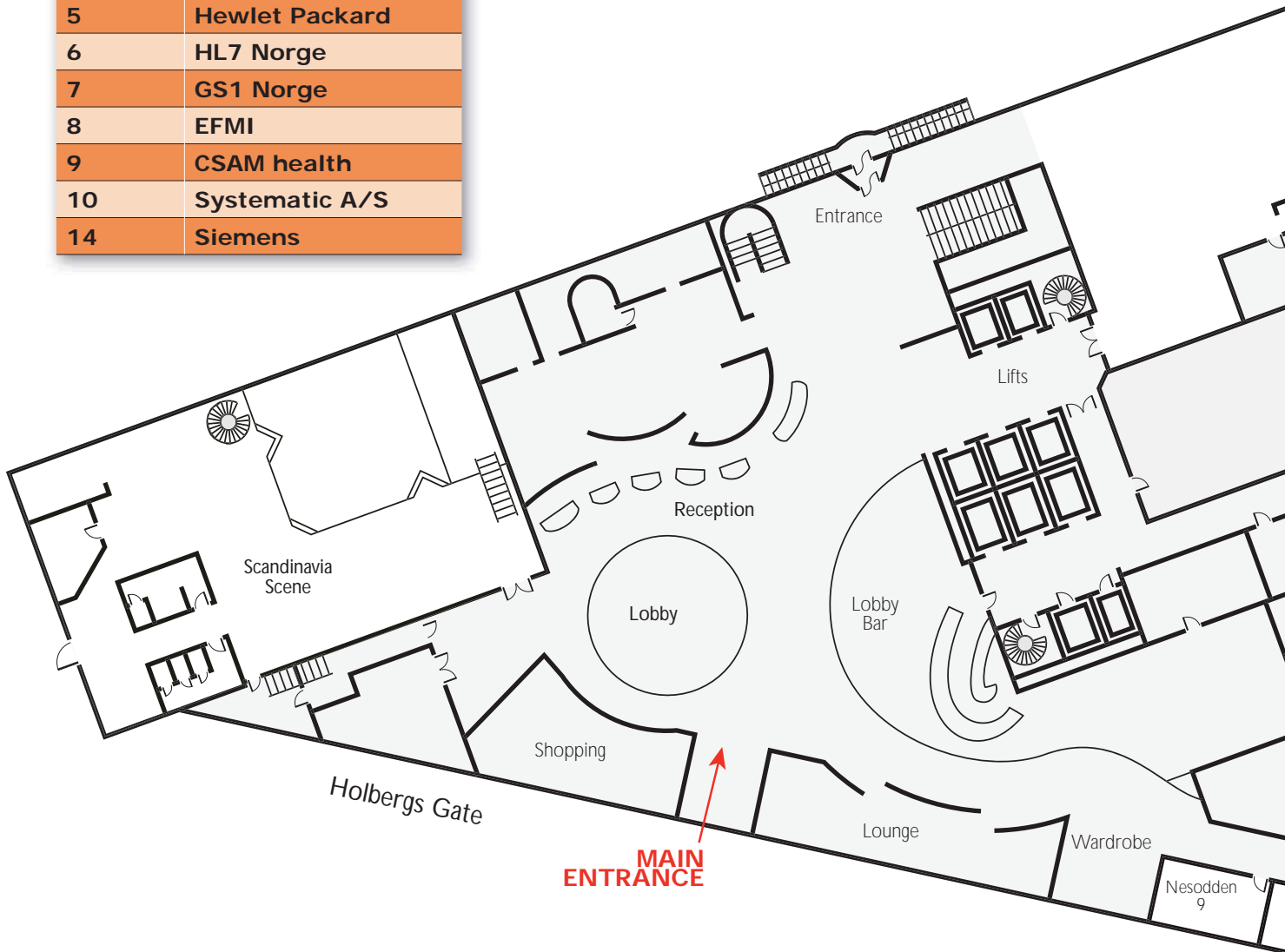
Wednesday 31 August						
Room	S1 Helsinki	S2 København	S3 Stockholm	S4 Oslo	Foajé	N1 Skagen
08:30	Plenary, Keynote: Barber: Envisioning the patient, medicines, technology triad				Exhibition	
09:15	Coffee					
09:45	EFMI Invited Session	29 EHR Workflow	30 Terminolog Ontol. standards	31 Modelling storage, retr.		P4 Citizen centred e-Health
11:15	Break					
11:30	33 Terminolog Ontol. standars	34 EHR, Workflow	WS23 EPOS	35 Modelling storage, retr.		WS20 Tranlational research
13:00	Plenary, Closing MIE2011, awards					
14:00	Lunch					

N2 Eidsvold	N3 Bergen	N4 Christiania	N5 Lofoten	N6 Finmark	Telemark	Corridor		
Introduction to Health Informatics 2011 (Norgwegian)	WS8 Citizen centred e-Health	WS9 EHR, workflow	14 Decision support Knowledge mng.	Demonstrations	SHI 2011 (Scandinavian Languages)	Posters		
	WS10 Modelling storage	WS11 Education	WS12 EHR, workflow					
	22 EHR Workflow	WS13 Evaluation	WS14 Terminology ontol. standards				WS15 Usability, HCI cognitive issues	
	27 Translational research	WS17 Usability, HCI cognitive issues	WS18 Termin. ontol. standards				Convergence by invitation - Lovis	
EFMI WG - EVAL Ammenwerth	EFMI WG Primary Care - Lusigan	EFMI WG Nursie -Weber		EFMI WG EDUC - Mantas				

N2 Eidsvold	N3 Bergen	N4 Christiania	N5 Lofoten	N6 Finmark	Telemark			
32 Citizen centred e-Health	P5 Usability, HCI cognitive	WS19 Telemedicine mobile health	4) Partership in Innovation Siemens	WS26 Terminolog Ontol. standards	National Activity Helse SørØst arkitektur-forum (Norwegian)			
36 Imaging and Biosignals	WS21 Citizen centred e-Health	WS22 EHR, workflow	WS24 European Convergence	WS25 ICNP				

Exhibitor List

Stand nr	Company/Exhibitor
1	IOS press
2	DIPS
3	Logica
4	Medinfo 2013
5	Hewlet Packard
6	HL7 Norge
7	GS1 Norge
8	EFMI
9	CSAM health
10	Systematic A/S
14	Siemens





Congress secretariat

The Congress secretariat is located on the Ground Floor next to the main entrance of the Venue. The Secretariat will be happy to help you with any questions that might arise, and sale of the Instructional Course book.

Opening hours:

Saturday 27.08 17:00-20:00*
Sunday 28.08 08:00-09:30* / 18:00-20:00
Monday 29.08 07:30-18:30
Tuesday 30.08 08:00-17:30
Wednesday 31.08 08:00-14:00

Congress PCO: Congress-Conference AS
Phone: +47-2256 1930
Fax: +47-2256 0541
E-mail: mie2011@congrex.no

Badges

Your personal badge is your entrance ticket to the conference centre and all scientific arrangements. Please wear your badge at all times.

Colour codes:

Red label: Local Organizing Committee

Green label: Invited Speakers,
SPC chair and co-chairs

Blue label: Exhibitors
(no access to scientific sessions)

Clear label: Participant

Certificate of Attendance

Certificate of Attendance will be provided at the secretariat on the last days of the congress to all registered delegates.

International phone calls

To call abroad from Norway dial 00 followed by the country code. The country code of Norway is +47.

Liability and Insurance

The Organizing Committee accepts no liability for personal injuries or loss or damage of property belonging to congress delegates, either during or as a result of the Congress or during any of the excursion tours. It is recommended that participants arrange for their own personal health, accident and travel insurance.

Lunch

Lunch will be served to all delegates and exhibitors wearing a badge. Lunch will be served at Ahus on Sunday, and in the exhibition area on Monday, Tuesday and Wednesday.

Non-smoking policy

Please observe the non-smoking policy and that smoking is not permitted in-doors in public areas in Norway.

Tickets

Tickets for all social events must be presented upon notice. Please contact the Secretariat for available tickets for the social events.

Wi-Fi

There will be free access to wireless internet in all parts of the Venue. The access code is **MIE2011**

* Located in the hotel foyer

Proceedings

MIE peer reviewed full paper proceedings are available for free download during the conference at www.booksonline.iospress.nl/Content/View.aspx?piid=20529

MIE2011 peer reviewed short communication, workshops, panels, posters are available at: <http://cd.mie2011.org/>

MIE2011 program as iPhone application - Conference Compass/MIE2011 - brings the conference program to your mobile phone, right into your pocket. You can make your personal program by marking favorite presentations, authors and topics, add scores, and comments to presentations for later recall. The application is available for the iPhone (and iPad and iPod Touch), Android, BlackBerry and many types of phones from Nokia, Sony-Ericsson, Samsung, etc.

Go to www.conference-compass.com/mie11 for instructions on how to download it to your phone. The app is offered by MIE 2011 and Aalborg University, and we hope you will make maximum use of it.

Presentations

MIE2011 SpeakersCorner:

<http://speaker.mie2011.org>

provide updated details for presenters

Posters

Posters will be on display in the corridor leading to N2-N6 and Telemark. The poster area will be open Monday and Tuesday, and posters will be changed between Monday and Tuesday. The poster should be mounted between 07:30 and 08:30, and taken down around 17:00 hrs.

Please contact the Secretariat for fixing material. Unfortunately, the Secretariat has no possibility to store posters not removed within due time, and such posters will be disposed off.

Speaker Ready Room

The Speaker Ready Room will be located in room Asker, next to the registration desk. Oral presentations must be delivered to the Speaker Ready Room at least 3 hours before the sessions starts.

Personal

computers in the session rooms will not be accepted. Opening hours for the Speaker Ready Room is as for the Secretariat.

Oral presentation of full papers and short communications

Each presentation has 15 minutes in total. As presenter of a full paper or short communication this gives you exactly 10 minutes for the presentation and 3 minutes for questions and answers.

The session chair/co-chair will keep time strictly. Please observe that the slides must comply with specified requirement found at <http://speaker.mie2011.org>.

MIE2011 have a full program and smooth running requires strict time management.

We will prepare a master slide displaying the session's presentations hyperlinked to the actual material the presenters like to use. We will not support use of personal computers or memory sticks etc. in the session rooms.

Please observe:

1. You are required to leave an electronic copy of your slides to the staff in the speaker – ready room no later than 3 hours before your session starts.
2. Hand in the form for transfer of copyright to allow/deny publication by EFMI.
3. It is mandatory to prepare 3 sentences about yourself, vitae & research interest; for the session chair/co-chair's introduction. Bring this to the speaker ready room.

Workshop and panels

Each workshop or panel has 90 minutes in total. We ask the first author/organizer of the workshop or panel to introduce speakers, and chair/ monitor the session. In line with our request for smooth running of the sessions, we will not support use of personal computers or memory sticks etc. with in the session rooms.

Please observe:

1. The first author/ organizer are required to leave an electronic copy of the slides/ material to the staff in the speaker – ready room no later than 3 hours before your session starts.
2. Hand in the form for transfer of copyright to allow/deny publication by EFMI.

Posters

Your poster presentation is scheduled for display either Monday or Tuesday during MIE (see program schedule). You can mount your poster in the morning of your assigned day. Posters are removed after the sessions. There will be poster-boards size 95 cm wide - 138 cm tall for your poster. There is no on-site printing.

Please observe:

1. Posters should be in A0 format; 84,1 cm wide – 118,9 cm tall, in PORTRAIT format.
2. Hand in the form for transfer of copyright to allow/deny publication by EFMI.

Demonstrations

Each demonstration has in total 40 minutes for presentation and demonstration. The format is theatre style. All accepted demonstration is scheduled for Tuesday morning, and the session will be chaired.

Please observe:

1. The first author/ organizer are required to leave an electronic copy of the slides/ material to the staff in the speaker – ready room no later than 3 hours prior to demonstration. You will be able to connect your own computer for this session.
2. Hand in the form for transfer of copyright to allow/deny publication by EFMI.

For further questions, please contact the MIE2011 speaker ready room or secretariat.

Session chairs and co-chairs have the following tasks; introduce speakers, monitor time and guiding questions and answers. We encourage chair and co-chair alternate each other in performing the tasks. There will be prepared a master slide with presentations and URLs to each of the presentations. Presenters should bring their presentation in the speaker ready room no later than 3 hours before their presentation, and there are no possibility to connect personal computers, memory stick etc. in the session room.

Preparing for the session

1. Download and read the papers/short communication in your session; available from Aug 22 at the following URL: <http://cd.mie2011.org/>
2. Be present 10 minutes before the session starts, meet with the staff person.
3. Check presence of speakers, and their introduction text. The staff person will check the availability of the presentations

Chairing the sessions

1. Start the session on time; announce session name and any last minutes changes. In case of absence of an author, the chairperson decides adequate alternate timing of the presentations. Please observe that people might change room between individual slots - and others count on you keeping the schedule
2. Announce speaker, affiliation and title of presentation.
3. Monitor time strictly; using signs for 5 minutes and 1 minute signs. Each presenter has 15 minutes in total. Presenters are advised to prepare for ten minutes presentation, and three minutes for Q & A.
4. Supervise Q & A's, by pointing to people and allow brief questions. It is a good habit of the chair person to have a question ready for each speaker
5. For each presentation, consider any additional information that the authors may provide during the presentation, and decide if any of the papers of your session appears to be worthwhile to publish as a journal paper.

After the session

Fill in the provided evaluation form to

1. Nominate paper(s) for further evaluation and candidacy be published as an extended version in the next MIE Special Issue of Methods of Information in Medicine. The criteria for nomination are quality and appropriateness for an international journal as well as the interest demonstrated by the author during his/her presentation.
2. Provide some statistics specified in the evaluation form. BRING the evaluation form to the MIE2011 secretariat / speakers ready room

For questions, please contact the MIE2011 speaker ready room or secretariat.

Get-together at Ahus, Sunday 28 August at 17:00

Following the Official opening ceremony and sessions the Akershus University Hospital (Ahus) cordially invites all participants and accompanying persons to a Get-together party at the hospital. Busses will return to Oslo centre at 18:30.

Free for all registered Participants and Accompanying persons.

**Reception in the Exhibition and Village area,
Radisson Blu Scandinavia Hotel, Monday 29 August at 18:30**

The Organizers of MIE 2011 cordially invites all Participants, Accompanying persons and Exhibitors to a Reception in the Exhibition and Village areas of the Main Venue. Light snacks and drinks will be served. Do not miss this opportunity to meet with all your colleagues present at the conference.

Free for all registered Participants and Accompanying persons and exhibitors.

Conference Dinner at Gamle Logen, Tuesday 30 August at 19:00

Participants, Accompanying Persons and Exhibitors are invited to join the Conference Dinner at the beautiful old building Gamle Logen, located in the heart of Oslo. We can promise you a wonderful meal and dance to one of Oslo's best ballroom orchestras: The Real Fake Band.

Dress code: informal

Address: Grew Wedels plass 2

Price registered Participants and Accompanying persons: NOK 650,-

Price others: NOK 1000,-

Please consult the Secretariat for available tickets.

The logo for MIE 2012 is set against a green background. It features the letters 'MIE' in a large, light blue serif font, with a detailed illustration of the Leaning Tower of Pisa in white and yellow replacing the letter 'I'. Below this, the year '2012' is written in a large, light yellow serif font. Underneath the year, the text 'PISA - ITALY' is written in a smaller, light blue serif font, followed by '26 - 28 AUGUST' in the same font and color. At the bottom, the website address 'www.mie2012.it' is written in a light blue serif font.

Sunday 28 August

13:40 EFMI Working Group Chairs meeting *B103083, Ahus*
Chair: **Partick Weber**

Monday 29 August

17:00 Working Group MIP *N4 Christiania*
Chair: **Alexander Horsch**

17:00 Working Group Social Media *N6 Finmark*
Chair: **Luis Fernandez-Luque**

Tuesday 30 August

16:00 FDH og DND – ildsjeler i norsk helseinformatikk *S1 Helsinki*
Chair: **Anne Moen og Alfhild Stokke**

17:00 EFMI Work Group LIFOSS *N1 Skagen*
Chair: **Thomas Karopka**

17:00 EFMI Work Group Evaluation *N2 Eidsvold*
Chair: **Elske Ammenwerth**

17:00 EFMI Work Group Primary Care *N3 Bergen*
Chair: **Simon de Lusignan**

17:00 EFMI Work Group Nursie *N4 Christiania*
Chair: **Patrick Weber**

17:00 EFMI Work Group Education *N6 Finmark*
Chair: **John Mantas**

SUNDAY 28 AUGUST
MIE2011 at Akerhus University Hospital
AHUS

Transport from Radisson Blu Scandinavia Hotel, Oslo (the conference site). The activities at AHUS and transportation between the conference site and AHUS are included.

09:00 Bus to AHUS from Radisson Blu Scandinavia Hotel
10:00 – 13:30 PARALLELL WORKSHOP SESSIONS

Each activity session is offered twice, at 10:00 and 12:00. You can participate in two different activities. You choose your preferred activities when registering for the conference.

**R1: 10:00
R2: 12:00**
**R: Fully Integrated Electronic Patient Record/
Clinical Information System**
**Store
auditorium**

This activity will present and demonstrate the fully integrated hospital Electronic Patient Record system supporting health providers' information handling and care documentation practices; profession specific documentation as well as collaborative information sharing within the hospital.

**D1: 10:00
D2: 12:00**
D: Diagnostic Imaging/Radiology
RAD

This activity offers a visit in the fully digitalized radiology department to introduce the visions, and discuss experiences and lessons learned in the on-going processes to establish and operate in a fully digitalized radiology department. Mobile X-ray and cooperation with primary care will be included.

**L1: 10:00
L2: 12:00**
L: Laboratory
LAB

This activity will explain the change to and include a visit to the fully automated laboratory for analysis, new tools and equipment in use and changes in the division of labor when the providers at the bedside collect the samples

**M1: 10:00
M2: 12:00**
M: Medication automation
**Seminarrom
S102.014**

This activity will discuss and demonstrate experiences from the challenging transition to automate the medication chain, focusing current, implemented solution and the different experiences towards that end. Participants will have the opportunity to see the work at the clinical unit as well as in the pharmacy.

**H1: 10:00
H2: 12:00**
H: HealthCare of the future
**NN4; HP
helsesenter &
Undervisings-
rom
NN404.051**

This activity includes an orientation and tour of the "HP Global Center of excellence" that demonstrates actual use of ICT-based systems at a patient's bedside and the health providers' coordination center.

**C1: 10:00
C2: 12:00**
**C: Collaboration and continuity,
lessons from changing practices**
**Under-
visningsrom 2
NNU0.014**

This activity will highlight findings from research studies that have followed various aspects of the ongoing change and transformations of practice where the technologies' new opportunities play a major part. The presentations are:
"Usability testing of implementation ready clinical information systems. Experiences from the POCMAP project". **Inger Dybdahl Sørby, NTNU/Vivit**
"Standardized nurse – mission impossible?" **Rune Pedersen, UiT/TTL**
"Modeling workflow – implications for change" **Lene Berge Holm, Ahus**
Chair: **Kristin Bang**

**P1: 10:00
P2: 12:00**
P: Pathology
PAT

This activity offers an insight in modern pathology using digital microscopy with all its advantages: morphometric analysis, pattern recognition, digital slide sharing, digital slide conferencing, etc.

SUNDAY 28 AUGUST

I1: 10:00 I2: 12:00	<p>I: Information exchange and cooperation across levels of care</p> <p>This activity will share experiences and demonstrate information exchanges across levels of care. We will demonstrate how interoperability is established between information systems in the hospital, collaborating GPs, nursing home and community nursing. The presentations are: Electronic referrals workflow - from GP's surgery to the consultant in the hospital (movie) Message architecture; the imperative and surveillance. Ken-Ove Thomassen og Øyvind Grimstad from <i>Sykehuspartner</i> Workflow and logistics of electronical messaging to and from community based care; The ELIN-k project. Sonja Brugman, Ahus National strategies for implementation of electronic communication across the complete health care system – pitfalls and possibilities, Kjell Borthne, Ahus Chair: Sonja Brugman, Ahus</p>	<p>Under- visningsrom 4 NNU0.064</p>
N1: 10:00 N2: 12:00	<p>N: Tour of the hospital – in Norwegian</p> <p>Omvisning på sykehuset—med norsktalende guide. Detaljer som på den engelsktalende omvisingen.</p>	
T1: 10:00 T2: 12:00	<p>T: Tour of the hospital</p> <p>This activity offers a guided tour of the hospital, focusing on the “main street” (GLASSGATA) to give an overview of the hospital, explaining physical and technological infrastructure to handle all the logistics, including the robots, automatic transport (AGV) and tube system for transport.</p>	
A1: 10:00 A2: 12:00	<p>A: Accompanying Persons Programme</p> <p>A1: Join T1 – Tour of the hospital A2: Join R2 – Electronic Patient Record</p>	
13:45 Lunch		
14:45	OPENING CEREMONY Chair: Anne Moen Co-chair: Stig Kjær Andersen	AHUS
<p>Official opening Music: Bærum Vocalensemble, <i>Conductor Anine Kruse</i> Welcome to Norway, MIE2011, by Petter Hurlen and Anne Moen Official opening Welcome to Ahus by <i>Hospital CEO, Hulda Gunnlaugsdóttir</i> EFMI welcome by John Mantas</p>		
<p>Hospital experiences The wired hospital - by Sverre Andreas Knutsen Clinicians' realities in a technological advanced hospital - by Jan Petter Odden Music: Bærum Vocalensemble, <i>Conductor Anine Kruse</i></p>		
<p>Keynote Chair: John Mantas Co-chair: Alexander Horsch Human Factors and Usability for complex Health Information Technologies: Why do you care? By Marie-Catherine Beucart-Zéphir</p>		
17:00	Get Together	Cantina, AHUS
18:30	Bus to Oslo Radisson Blu Scandinavia Hotel (conference hotel)	

MONDAY 29 AUGUST

08:30 PLENARY SESSION **Scandinavia-hallen**
 Chair: **Sabine Koch** Co-chair: **Etienne de Clercq**
New patient – new technologies, new networks
 by **Susanna Palkonen**

09:15 Break

09:45-11:15 PARALLEL PAPER SESSIONS

Session 1 **Electronic Health Record, Workflow, Intra- and Interorganizational collaboration** **S2**
København
 Chair: **Huibert Tange** Co-chair: **Berit Brattheim**

Developing an electronic health record for intractable diseases in Japan
Eizen Kimura, Shinji Kobayashi, Yasuhiro Kanatani, Ken Ishihara, Tsuneyo Mimori,
 Ryouyusuke Takahashi, Tsutomu Chiba, Hiroyuki Yoshihara

Three Key Concerns for a Successful EPR Deployment and Usage
Rebecka Janols, Bengt Göransson, Bengt Sandblad

Implementation of an Open Source Provider and Organization Registry Service
Markus Birkle, Benjamin Schneider, Tobias Beck, Thomas Deuster, Markus Fischer, Florian Flatow,
 Robert Heinrich, Christian Kapp, Jasmin Riemer, Michael Simon, Björn Bergh

Implementation and Experimentation of TEDIS: An Information System Dedicated to Patients with Pervasive Developmental Disorders
Mohamed Ben Said, Laurence Robel, Erwan Vion, Antoine El Ghazali, Bernard Golse,
 Jean Philippe Jais, Paul Landais

Traceability of patient records usage: barriers and opportunities for improving user interface design and data management
Ricardo Cruz-Correia, Luís Lapão, Pedro Pereira Rodrigues

Important Ingredients for Health Adaptive Information Systems
Yalini Senathirajah, Suzanne Bakken

Session 2 **Terminology, Ontologies and Standardization** **S3**
Stockholm
 Chair: **Stefan Darmoni** Co-chair: **Mira Hercigonja-Szekeres**

A Standard Based Approach for Biomedical Knowledge Representation
Ariel Farkash, Hani Neuvirth, Yaara Goldschmidt, Costanza Conti, Federica Rizzi, Stefano Bianchi,
 Erika Salvi, Daniele Cusi, Amnon Shab

Ontology-Based Framework for Electronic Health Records Interoperability
Carolina González, Bernd Blobel, Diego López

Ontology-based Knowledge Management for Personalized Adverse Drug Events Detection
Feng Cao, Xingzhi Sun, Xiaoyuan Wang, Bo Li, Jing Li, Yue Pan

MONDAY 29 AUGUST

A Formal Analysis of HL7 Version 2.x
Frank Oemig, Bernd Blobel

Simplifying HL7 Version 3 messages
Robert Worden, Philip Scott

Creating an ontology driven rules base for an expert system for medical diagnosis
Valérie Bertaud-Gounot, Valéry Donfack, Jérémy Lasbleiz, Annabel Bourde, Régis Duvauferrier

Session 3 Citizen-centred e-Health **S4**
Oslo
Chair: Kaija Saranto Co-chair: Børge Lillebo

A Unified Approach for Social-Medical Discovery
Haggai Roitman, Yossi Mesika, Yevgenia Tsimmerman, Sivan Yogev

Information Provision for Adolescents With Cancer
Anna Shillabeer

Electronic Symptom Reporting by Patients: A Literature Review.
Monika Johansen, Eva Henriksen, Gro Berntsen, Alexander Horsch

Increasing Physical Activity through Health-Enabling Technologies: The Project "Being Strong Without Violence"
Corinna Scharnweber, Wolfram Ludwig, Michael Marschollek, Wolfgang Pein, Peter Schack, Reiner Schubert, Reinhold Haux

The value of role models in design of social media for elderly
Toril Knutshaug Nervik, Yngve Dahl, Anders Kofod-Petersen

Review of Mobile Terminal-Based Tools for Diabetes Diet Management
Eunji Lee, Naoe Tatara, Eirik Årsand, Gunnar Hartvigsen

09:45-11:15 **PANELS & WORKSHOPS**

WS1 Evaluation **N4**
Christiania

Towards an International Minimum Dataset for Monitoring National Health Information System Implementations
Hannele Hyppönen, Elske Ammenwerth, Christian Nøhr, Arild Faxvaag, Åke Walldius

P1 Translational Research **N5**
Lofoten

Translational Medicine - The Need for Integrative Informatics
Amnon Shabo, Henning Müller, Reinhold Haux, Dipak Kalra

WS2 Telemedicine and Mobile Health **N6**
Finmark

Building a bridge between clinical pathways and ehealth solutions to manage chronic diseases and social care
Angelo Rossimori, Marta Mazzeo, Jacob Hofdijk, Albert Alonso, Michael Rigby

11:15 Break

MONDAY 29 AUGUST
11:30-13:00 PARALLEL PAPER SESSIONS

Session 4	Decision Support, Knowledge Management, Guidelines <i>Chair: Niels Peek Co-chair: Pia Elberg</i>	S2 København
	Next Generation Neonatal Health Informatics with Artemis <i>Carolyn McGregor, Christina Catley, Andrew James, James Padbury</i>	
	Limitations in physicians' knowledge when assessing dementia diseases – an evaluation study of a decision-support system <i>Helena Lindgren</i>	
	A Generic System for Critiquing Physicians' Prescriptions: Usability, Satisfaction and Lessons Learnt <i>Jean-Baptiste Lamy, Vahid Ebrahimi, Brigitte Seroussi, Jacques Bouaud, Christian Simon, Madeleine Favre, Hector Falcoff, Alain Venot</i>	
	An OCL-compliant GELLO engine <i>Jing Mei, Haifeng Liu, Guotong Xie, Shengping Liu, Baoyao Zhou</i>	
	Improvement of inter-services communication through a CDSS dedicated to myocardial perfusion scintigraphy <i>Julie Niès, Gersende Georg, Marc Faraggi, Isabelle Colombet, Pierre Durieux</i>	
	Prognostic Data-Driven Clinical Decision Support – Formulation and Implications <i>Ruty Rinott, Boaz Carmeli, Carmel Kent, Daphna Landau, Yonatan Maman, Yoav Rubin, Noam Slonim</i>	
Session 5	Privacy and Security <i>Chair: Louise Pape-Haugard Co-chair: Åke Walldius</i>	S3 Stockholm
	Healthcare professional's experiences with EHR-system access control mechanisms <i>Arild Faxvaag, Trond S. Johansen, Vigdis Heimly, Line Melby, Anders Grimsmo</i>	
	Personal Health Information on Display: Balancing Needs, Usability and Legislative Requirements <i>Erlend Andreas Gjære, Inger Anne Tøndel, Maria B Line, Herbjørn Andresen, Pieter Toussain</i>	
	Watermarking – A new way to bring evidence in case of telemedicine litigation <i>Gouenou Coatrieux, Catherine Quantin, Francois Allaert, Bertrand Auverlot, Christian Roux</i>	
	Sharing Sensitive Personal Health Information through Facebook: The Unintended Consequences <i>Mowafa Househ</i>	
	End-to-End Security for Personal Telehealth <i>Paul Koster, Muhammad Asim, Milan Petkovic</i>	

MONDAY 29 AUGUST

Session 6	Information Modeling, Storage and Retrieval <i>Chair: William Goossen Co-chair: Ursula Hübner</i>	S4 Oslo
	Using multimodal mining to drive clinical guidelines development <i>Emilie Pasche, Julien Gobeill, Douglas Teodoro, Dina Vishnyakova, Arnaud Gaudinat, Patrick Ruch, Christian Lovis</i>	
	Defining and Reconstructing Clinical Processes based on IHE and BPMN 2.0 <i>Melanie Strasser, Franz Pfeifer, Emmanuel Helm, Andreas Schuler, Josef Altmann</i>	
	Facilitating access to laboratory guidelines by modeling their contents and designing a computerized user interface <i>Mobin Yasini, Catherine Duclos, Jean-Baptiste Lamy, Alain Venot</i>	
	Evaluation of Multi-Terminology Super-Concepts for Information Retrieval <i>Stefan Darmoni, Nicolas Griffon, Lina Fatima Soualmia, Aurélie Névéol, Philippe Massari, Benoit Thirion, Badisse Dahamna</i>	
	Framework Model And Principles for trusted Information sharing In Pervasive Health <i>Pekka Ruotsalainen, Bernd Blobel, Pirkko Nykänen, Antto Seppälä, Hannu Sorvari</i>	
	Populating the i2b2 Database with Heterogeneous EMR Data: a Semantic Network Approach <i>Sebastian Mate, Thomas Bürkle, Felix Köpcke, Bernhard Breil, Bernd Wullich, Martin Dugas, Hans-Ulrich Prokosch, Thomas Ganslandt</i>	
11:30-13:00	PANELS & WORKSHOPS	
WS3	Terminology, Ontologies and Standardization	N4 Christiania
	Ontological Realism for Biomedical Ontologies and Electronic Health Records <i>Werner Ceusters, Mathias Brochhausen, Stefan Schulz</i>	
WS4	Citizen-centred e-Health	N5 Lofoten
	Towards 'Ideal Healthcare': optimised and personalised future medicine <i>Anthony J. Brookes, Iain Buchan, Allan Hanbury, Peter Robinson</i>	
WS5	Telemedicine and Mobile Health	N6 Finmark
	Global telemedicine services – what can be learned from telemedicine in Norway? <i>Gunnar Hartvigsen, Johan Gustav Bellika, Per E. Hasvold, Anne G. Ekeland, Eirik Årsand, Alexander Horsch, Steinar Pedersen</i>	
13:00	Lunch	

MONDAY 29 AUGUST

14:00-15:00 **PLENARY SESSION** *Scandinavia-hallen*
 Chair: **Ronald Cornet** Co-chair: **Thomas Karopka**

The Usability (or not) of Health Informatics Standards
 by **Stephen Kay**

Mastering Open Source Software challenges in a niche market
 by **Kirsten Haaland**

15:00 Break

15:30-17:00 **PARALLEL PAPER SESSIONS**

Session 7 **Telemedicine and Mobile Health** **S2**
 Chair: **Eizabeth Borycki** Co-chair: **Osman Saka** **København**

Condyloma and direct teledermatology
Alexander Börve, Raquel Molina-Martinez

Data Privacy Preservation in Telemedicine: The PAIRSE Project
Jocelyne Fayn, Ebrahim Nageba, Bruno Defude, Franck Morvan, Chirine Ghedira

Relevance and Usability of a Computerized Patient Simulator for Continuous Medical Education of Isolated Care Professionals in Sub-Saharan Africa
Georges Bediang, Cheikh Oumar Bagayoko, Marc-André Raetzo, Antoine Geissbuhler

Applications of Medical Intelligence in Remote Monitoring
Balázs Végső, István Vassányi, György Kozmann, András Bánhalmi, István Kósa, Tibor Dulai, Zsolt Tarjányi, Gergely Tuboly, Péter Cserti, Balázs Pintér

Virtual TeleRehab: A Case Study
Jurgen Broeren, Lena Pareto, Britt Johansson, Sally Zeller, Katharina S Sunnerhagen, Martin Rydmark

Patient Empowerment by Increasing Information Accessibility In a Telecare System
Mihaela Vida, Vasile Topac, Vasile Stoicu-Tivadar

Session 8 **Terminology, Ontologies and Standardization** **S3**
 Chair: **Suzanne Bakken** Co-chair: **Cornelia Ruland** **Stockholm**

Development of a new international classification of health interventions based on an ontology framework
Béatrice Tromber-Paviot, Richard Madden, Lori Moskal, Albrecht Zaiss, Cédric Bousquet, Anand Kumar, Pierre Lewalle, Jean Marie Rodrigues

The revision of the Korean Classifications of Health Interventions based on the proposed ICHI semantic model and lessons learned
Boyoung Jung, Chaeyoung Jung, Jean Marie Rodrigues, Cédric Bousquet, Anand Kumar, Pierre Lewalle, Béatrice Trombet Paviot, Hoonshik Yang, Sukil Kim

Web-based Collaboration for Terminology Application: ICNP C-Space
Claudia Bartz, Derek Hoy

Mapping Medical Records of Gastrectomy Patients to SNOMED-CT
Eun-Young So, Hyeoun-Ae Park

MONDAY 29 AUGUST

Terminology for the description of the diagnostic studies in the field of EBM
Natalia Grabar, Ludovic Trinquart, Isabelle Colombet

Representing knowledge, data and concepts for EHRS using DCM
William Goossen

Session 9 **Electronic Health Record, Workflow, Intra- and Interorganizational collaboration** **S4**
Chair: Gilad Kuperman Co-chair: Elin Børøsund **Oslo**

Mobile Patient Questionnaires - Implementing the Single Source Idea
Fleur Fritz, Markus Riek, Bernhard Breil, Sonja Ständer, Martin Dugas

Workflow dilemmas in lab results follow-up *Hallvard Lærum*

The shift in workarounds upon implementation of computerized physician order entry *Heleen van der Sijs, Irene Rootjes, Jos Aarts*

Task Analysis and Interoperable Application Services for Service Event Management *Juha Mykkänen, Hannu Virkanen, Pirkko Kortekangas, Saara Savolainen, Timo Itälä*

Improving Health Professionals Clinical Documentation in the Interdisciplinary Journal for a whole Hospital *Lise Margon Simonsen*

Organs Transplantation - How to Improve the Process?
Viriato Ferraz, Gerardo Oliveira, Pedro Vieira-Marques, Ricardo Cruz-Correia

**15:30-
17:00**

PANELS & WORKSHOPS

P2 **Evaluation** **N4**
Christiania

The Medical Device Directive and Software: The implications
Jan Talmon, Michael Rigby, Sylvia Pelayo, Elske Ammenwerth

WS7 **7 Electronic Health Record, Workflow, Intra- and Interorganizational collaboration** **N5**
Lofoten

Exchanging biomedical information at large scale using the Semantic Web
Rémy Choquet, Daniel Karlsson, Daniel Schober, Philipp Daumke, Patrick Ruch, Douglas Teodoro, Giovanni Mels, Ariane Assele, Dirk Colaert, Christian Lovis, Marie-Christine Jaulent, Hans Cools, Jos De Roo

P3 **Imaging and Biosignals** **N6**
Finmark

Patient Empowerment and High-Tech Imaging and Biosignal-Based Procedures – Contradiction or Challenge?
Alexander Horsch, Luca Mainardi

POSTERS, ON DISPLAY ALL DAY MONDAY

CORRIDOR

INFORMATION SYSTEMS AND WORKFLOW

- 1 Acceptance and Use of Digital Pen in an Emergency Department**
Andrius Patapovas, Thomas Bürkle, Harald Dormann, Renke Maas, Hans-Ulrich Prokosch

- 2 Evaluation of an app Prototype for the Mobile Medical Round**
Benjamin Schneider, Björn Bergh

- 3 User-Driven Innovation as a Catalyst to Adopt Mobility Solutions in Healthcare**
Christian Koerner, Mads Stampe Fredriksen, Werner Sperschneider

- 4 Integrating the Electronic Health Record into Health Informatics Education**
Elizabeth Borycki, Andre Kushniruk, Brian Armstrong, Mu-Hsing Kuo

- 5 Bookmarking Service Considerations for an Archetype-Based EHR Using REST**
Erik Sundvall, Mikael Nyström, Martin Eneling, Daniel Karlsson, Håkan Öрман

- 6 Primary care EHR and collaborative care**
Etienne De Clercq, J. Devlies, V. Van Casteren

- 7 Design and Implementation of a Clinical Trials Information System in a Networked Oncology Healthcare Setting**
Harald Aamot, Wolfgang Wick, Andreas Schneeweiss, Petra Knaup

- 8 Telehealth Enhances User Experience of Networked Specialist Care**
Karen Day, Patricia Kerr

- 9 Interoperability through an Architectural Paradigm Shift using Shared Medication Record as a case**
Louise Pape-Haugaard

- 10 Cloud-based Information Support for Emergency Healthcare**
Mikaela Poulmenopoulou, Flora Malamateniou, Despina Papakonstantinou, George Vassilacopoulos

- 11 Advanced ICT Improved the Research and Treatment Quality for a Rare Disease: the Italian Amyloidosis Network Experience**
Paolo Tormene, Paola Russo, Riccardo Ferrari, Stefania Rubrichi, Giovanni Palladini, Giampaolo Merlini, Silvana Quaglini

- 12 A Proposed Desentralized Holter Diagnostic procedure**
Rune Fensli, Ingrid Svagård

- 13 Is the revised Medical Device Directive usable for Manufacturers?**
Sabrina Bras Da Costa, Sylvia Pelayo, J. M. Christian Bastien, Mathieu Jeanne, Marie-Catherine Beuscart-Zépher

- 14 Application of Personas in User-Centered Design of Medical Informatics Systems and Services**
Trine Krogstad, Tatjana M. Burkow, Luis Fernandez Luque

- 15 Identity and Access Management for a Hospital Information System**
Walter Swoboda, Simon Leutner, Peter Klutke

- 16 Identifying task-specific information needs of respiratory therapists**
Sven Koch, Amanda Sheeren, Lauren Whitaker, Dwayne Westenskow

POSTERS, ON DISPLAY ALL DAY MONDAY

CORRIDOR

PATIENTS AND CONSUMERS

-
- 17 Approaching Personal Wellness Information Model**
Antto Seppälä, Pirkko Nykänen, Pekka Ruotsalainen
-
- 18 The Role of Electronic Patient Record Systems in Clinical Handover Scenarios - What we can Learn from the Literature**
Daniel Flemming, Ursula Hübner
-
- 19 Personalized Mobile Phone-based Tools for Type 1 Diabetes**
Eirik Årsand, Stein Olav Skrøvseth, Taridzo Chomutare, Jonas Lauritzen, Gunnar Hartvigsen
-
- 20 Online Health Information Seeking Attitude of Middle Aged Turkish Citizens: A Case Study**
Elif Çakir Turgut, Nazife Baykal
-
- 21 A Web Tool for Automated Adverse Drug Events Detection: the ADE Scorecards**
Emmanuel Chazard, Adrian Băceanu, Romaric Marcilly, Stéphanie Bernonville, Grégoire Ficheur, Régis Beuscart
-
- 22 A pilot with Exergames in Elderly Homes**
Huibert Tange, Simon van Genderen, Sanne van der Weegen, Albine Moser, Guy Plasqui
-
- 23 Automating Testcase Generation for Computer Interpretable Clinical Guidelines**
JaeHoon Lee, HyunYoung Kim, JeongAh Kim, InSook Cho, Yoon Kim
-
- 24 Service Composition in GreenOlive Intelligent Living Platform**
Liangzhao Zeng, Pei-Yun Hsueh, Xinxin Zhu, Henry Chang
-
- 25 Patient Empowerment Framework for Cardiac Patients**
Robert Mulrenin, Manuela Plössnig, Mihai Radulescu, Gökçe Banu Laleci, Catherine Chronaki, Yildiray Kabak
-
- 26 User Training of Patient Information System - Longitudinal Study in Central Finland**
Tuula Kuusela, Kaisa Lemmetty, Eija Häyrinen
-
- 27 eHealth can mean Better Health for China**
Shaobo Xiao, Gunnar O Klein
-

MONDAY 29 AUGUST

08:30- 18:30	NATIONAL eHEALTH DAY "PÅ TVERS"	Telemark
08:30- 09:15	PLENARY KEYNOTE New patient – new technologies, new networks by Susanna Palkonen	<i>Scandinavia- hallen</i>
09:30	Opening of Exhibition and Village of the future Chair: Bente Christiansen, leder NSFID	Telemark
09:45- 11:15	Helseportalen – et verktøy for å gi pasientene bedre medvirkning i helsetjenesten <i>Christine Bergland, Helsedirektoratet</i> Etiske betraktninger knyttet til bruk av IKT som redskap for medvirkning <i>Bjørn Hofmann, Universitetet i Oslo/Høgskolen i Gjøvik</i> Web Choice – når pasienten kan kommunisere med behandlingsapparatet på nett: En pasienterfaring <i>Nan-Kirsti Holmenes</i>	
11:15	Break	
11:30- 13:00	"Det skulle være rart om pleietjenesten var den eneste sektoren som ikke kunne benytte seg av teknologi for å bedre sine ytelser..." <i>Kåre Hagen, BI og leder av "Hagenutvalget"</i> Tele-dialysis in Scotland: The Nurses adaption to the Technology and their experience so far <i>Bruce Honeyman, Caithness General Hospital, Wick</i> KOLS-kofferten: Et nyskapende telemedisinsk prosjekt ved Dalane Lokalmedisinske senter <i>Mariann Svanes, og Johannes Bergsåker-Aspøy,</i>	
13:00	Lunch	
14:00- 15:00	Renewing Health: Oppfølging av blodsukker på mobiltelefon <i>Astrid Grøttland, Nasjonalt senter for samhandling og telemedisin</i> Pasienterfaringer knyttet til å be om kopi av egen journal <i>Torunn Wibe, Utviklingscenter for sykehjem i Oslo</i>	
15:00	Break	
15:30- 16:00	Min Journal- portal for både pasienter og helsepersonell <i>Sissel Jor, Seksjon for forsknings- og pasienttjenester IT avdelingen, Oslo universitetssykehus HF</i>	
16:15- 18:30	Generalforsamling for NSFID	

TUESDAY 30 AUGUST

08:30-09:15	PLENARY SESSION <i>Chair: Silvana Quaglini Co-chair: Jacob Hofdijk</i> When the whole population contributes to knowledge. On health registries in Norway <i>by Camilla Stoltenberg</i>	Scandinavia-hallen
09:15	Break	
09:45-11:15	PARALLEL PAPER SESSIONS	
Session 10	Translational Research <i>Chair: Nicolette de Keizer Co-chair: Espen Skorve</i>	S2 København
	A Metadata-Based Patient Register for Cooperative Clinical Research: A Case Study in Acute Myeloid Leukemia <i>Anja Fischer, Ulrich Mansmann</i>	
	De-identifying an HER Database – Anonymity, Correctness and Readability of the Medical Record <i>Kostas Pantazos, Søren Lauesen, Søren Lippert</i>	
	Service Oriented Data Integration for a Biomedical Research Network <i>Matthias Ganzinger, Tino Noack, Sven Diederichs, Thomas Longerich, Petra Knaup</i>	
	Adaption of the Identity Management Regarding new Requirements of a Long-Term Psychosis Biobank <i>Sara Y. Demiroglu, Daniela Skrownny, Thomas G. Schulze, Krister Helbing</i>	
	Single source information systems can improve data completeness in clinical studies: An example from nuclear medicine <i>Susanne Herzberg, Martin Dugas</i>	
	Reporting Qualitative Research in Health Informatics: REQ-HI Recommendations <i>Zahra Niazkhani, Habibollah Pirnejad, Jos Aarts, Samantha Adams, Roland Bal</i>	
Session 11	Terminology, Ontologies and Standardization <i>Chair: Eric Eisenstein Co-chair: Riccardo Bellazzi</i>	S3 Stockholm
	A Methodology and Supply Chain Management Inspired Reference Ontology for Modeling Healthcare Teams <i>Craig Kuziemsky, Sara Yazdi</i>	
	Supporting openEHR Java Desktop Application Developers <i>Olof Torgersson, Hajar Kashfi</i>	
	Large Scale Healthcare Data Integration and Analysis using the Semantic Web <i>John Timm, Sondra Renly, Ariel Farkash</i>	

TUESDAY 30 AUGUST

ACGT: Advancing Clinico-genomic trials on cancer – Four years of experience

Luis Martín, Alberto Anguita, Norbert Graf, Manolis Tsiknakis, Mathias Brochhausen, Stefan Rüping, Anca Bucur, Stelios Sfakianakis, Thierry Sengstag, Francesca Buffa, Holger Stenzhorn

Architectural Approach for Providing Relations in Biomedical Terminologies and Ontologies

Mathias Brochhausen, Bernd Blobel

Integration of classifications and terminologies in metadata registries based on ISO/IEC 11179

Sylvie Ngouongo Nguemegne, Jürgen Stausberg

Session 12	Evaluation <i>Chair: Eilizabeth Cummings</i> <i>Co-chair: Line Melby</i>	S4 Stockholm
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Making a web based ulcer record work by aligning architecture, legislation and users – a formative evaluation study

Anne G. Ekeland, Eva Skipenes, Beate Nyheim, Ellen Christiansen

Assessing the role of a site visit in adopting Activity Driven methods

Irmeli Luukkonen, Kaija Saranto, Mikko Korpela

A Multi-method Study of Factors Associated with Hospital Information System Success in South Africa

Lyn Hanmer, Sedick Isaacs, J. Dewald Roode

Assessing Biocomputational Modelling in Transforming Clinical Guidelines for Osteoporosis Management

Karl Stroetmann, Rainer Thiel, Marco Viceconti

Application of the RE-AIM Framework to Synthesize the Evaluation of an Electronic Continuity of Care Document for PLWH

Suzanne Bakken, Eli Camhi, Ronald Hesse, Michelle Odium, Rebecca Schall, Martha Rodriguez, Esmerlin Valdez, Peter Gordon

Technical Data Evaluation of a Palliative Care Web-Based Documentation System

Tobias Hartz, René Brüntrup, Frank Ückert

Session 13	Education – professional development <i>Chair: Assa Reichert</i> <i>Co-chair: Ragnhild Hellesø</i>	N1 Skagen
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Push and Pull Models to Manage Patient Consent and Licensing of Multimedia Resources in Digital Repositories for Case-Based Reasoning

Andrzej Kononowicz, Nabil Zary, David Davies, Jörn Heid, Luke Woodham, Inga Hege

Next Steps in Evaluation and Evidence – from Generic to Context-Related

Michael Rigby, Jytte Brender, Marie-Catherine Beuscart-Zéphir, Hannele Hyppönen, Pirkko Nykänen, Jan Talmon, Nicolette de Keizer, Elske Ammenwerth

Virtual Ward Round

Michael Storck, Frank Ückert

TUESDAY 30 AUGUST

Professional Development Of Health Informatics In Northern Ireland
Paul McCullagh, Gerry McAllister, Paul Hanna, Dewar Finlay, Paul Comac

How Important is Theory in Health Informatics? A Survey of UK Academics
Philip Scott, James Briggs, Jeremy Wyatt, Andrew Georgiou

Better Quality in Healthcare Through Gamified Simulation Based Skill Training Application
Weronika Tancredi, Mikael Wintell, Lars Lindsköld

Session 14 **Decision Support, Knowledge Management, Guidelines** **N5**
Chair: Nathalie Souf *Co-chair: Monique Jaspers* **Lofoten**

Knowledge-based Surveillance for Preventing Postoperative Surgical Site Infection
Arash Shaban-Nejad, Gregory W. Rose, Anya Okhmatovskaia, Alexandre Riazanov, Christopher J.O. Baker, Robyn Tamblyn, Alan J. Forster, David L. Buckeridge

Factors known to Influence Acceptance of Clinical Decision Support Systems
Ellen Kilsdonk, Linda Peute, Sebastiaan Knijnenburg, Monique Jaspers

Cross-frontier information provision in the ALIAS European project
Frédérique Laforest, Atisha Garin-Michaud, Thierry Durand, Emmanuel Eyraud, Edouard Barthuet

Event-driven Architecture for Health Event Detection from Multiple Sources
Kerstin Denecke, Göran Kirchner, Peter Dolog, Pavel Smrz, Jens Linge, Gerhard Backfried, Johannes Dreesman

Towards an interoperable information infrastructure providing decision support for genomic medicine
Matthias Samwald, Holger Stenzhorn, Michel Dumontier, M. Scott Marshall, Joanne Luciano, Klaus-Peter Adlassnig

Identifying patients for clinical trials using fuzzy ternary logic expressions on HL7 messages
Raphael Majeed, Rainer Röhrig

09:45-11:15 **PANELS & WORKSHOPS**

WS8 **Citizen-centred e-Health** **N3**
Bergen

Towards a Research Agenda for Social Media in Healthcare and Academia
Peter J. Murray, Chris Paton, Margaret Hansen, Peter L. Elkin, Luis Fernandez-Luque

WS9 **Electronic Health Record, Workflow, Intra- and Interorganizational collaboration** **N4**
Christiania

International Perspectives on Information and Communication Technology for Support Nurses in Nursing Homes
Gregory L. Alexander, Mari S. Berge, Mariann Fossum, Nancy Stagers

11:15 Break

TUESDAY 30 AUGUST
**11:30-
13:00 PARALLEL PAPER SESSIONS**

Session 15	Usability, HCI, Cognitive Issues <i>Chair: Thomas Wetter Co-chair: Ines Langemeyer</i>	S2 København
	Emerging Approaches to Usability Evaluation of Health Information Systems: Towards In-Situ Analysis of Complex Healthcare Systems and Environments <i>Andre Kushniruk, Elizabeth Borycki, Shigeki Kuwata, Joseph Kannry</i>	
	Contextualization of automatic alerts during electronic prescription: Researchers' and users' opinions on useful context factors <i>Elske Ammenwerth, Werner O Hackl, Daniel Riedmann, Martin Jung</i>	
	Reducing Clinicians' Cognitive Workload by System Redesign a Pre-Post Think Aloud Usability Study <i>Linda Peute, Nicolette de Keizer, Eric van der Zwan, Monique Jaspers</i>	
	Impact of Alert Specifications on Clinicians' Adherence <i>Maurice Langemeijer, Linda Peute, Monique Jaspers</i>	
	Medication decision-making on hospital ward-rounds <i>Melissa Baysari, Johanna Westbrook, Richard Day</i>	
	A qualitative analysis of prescription activity and alert usage in a computerized physician order entry system <i>Rolf Wipfli, Mireille Bétrancourt, Alberto Guardia, Christian Lovis</i>	
Session 16	Evaluation <i>Chair: Pirkko Nykänen Co-chair: Marc Oertle</i>	S3 Stockholm
	Medical Providers' Dental Information Needs: A Baseline Survey <i>Amit Acharya, Andrea Mahnke, Po-Huang Chyou, Carla Rottscheit, Justin Starren</i>	
	What makes an information system more preferable for clinicians? A qualitative comparison of two systems <i>Habibollah Pirnejad, Zahra Niazkhani, Jos Aarts, Roland Bal</i>	
	Does PACS facilitate work practice innovation in the intensive care unit? <i>Isla Hains, Nerida Creswick, Johanna Westbrook</i>	
	Innovation in intensive care nursing work practices with PACS <i>Nerida Creswick, Isla Hains, Johanna Westbrook</i>	
	Evaluation of telephone triage and advice services: a systematic review on methods, metrics and results <i>Sara Carrasqueiro, Mónica Oliveira, Pedro Encarnação</i>	
	Human Factors based recommendations for the design of Medication related Clinical Decision Support Systems (CDSS) <i>Sylvia Pelayo, Romaric Marcilly, Stéphanie Bernonville, Nicolas Leroy, Marie-Catherine Beuscart-Zéphir</i>	

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Session 17	Citizen-centred e-Health <i>Chair: Lyn Hanmer Co-chair: Anne Randorf Rasmussen</i>	S4 Oslo
<p>Interaction between COPD patients and healthcare professionals in a cross-sector telerehabilitation Programme <i>Birthe Dinesen, Stig Kjær Andersen, Ole Hejlesen, Egon Toft</i></p>		
<p>Enhancing self-efficacy for self-management in people with cystic fibrosis <i>Elizabeth Cummings, Jenny Hauser, Helen Cameron-Tucker, Petya Fitzpatrick, Melanie Jessup, E Haydn Walters, David Reid, Paul Turne</i></p>		
<p>Evaluation of a Hyperlinked Consumer Health Dictionary for Reading EHR Notes <i>Laura Slaughter, Karl Øyri, Erik Fosse</i></p>		
<p>A pilot assessment of why patients choose not to participate in self-monitoring oral anticoagulant therapy <i>Morten Algy Bonderup, Stine Veje Hangaard, Pernille Heyckendorff Lilholt, Ole Hejlesen</i></p>		
<p>Patients' Needs for Information about Medicine During Hospitalization <i>Peter Skjøt, Kitta Lawton</i></p>		
<p>Mobile Peer-Support in Diabetes <i>Taridzo Chomutare, Eirik Årsand, Gunnar Hartvigsen</i></p>		
Session 18	Natural Language Processing, Data Mining <i>Chair: Stefan Schulz Co-chair: Eva Henriksen</i>	N1 Skagen
<p>Medical Knowledge Evolution – Query Constraining Aspects <i>Ann-Marie Eklund</i></p>		
<p>Optimal Asymmetrical SVM Using Pattern Search. A Health Care Application <i>Gilles Cohen, Rodolphe Meyer</i></p>		
<p>Multi-label Classification of Clinical Text Documents considering the Impact of Text Pre-processing and Training size <i>Stephan Spat, Bruno Cadonna, Ivo Rakovac, Christian Gütl, Hubert Leitner, Günther Stark, Thomas R. Pieber, Peter Beck</i></p>		
<p>Factuality Levels of Diagnoses in Swedish Clinical Text <i>Sumithra Velupillai, Hercules Dalianis, Maria Kvist</i></p>		
<p>Network analysis of possible anaphylaxis cases reported to the US Vaccine Adverse Event Reporting System after H1N1 influenza vaccine <i>Taxiarchis Botsis, Robert Ball</i></p>		
<p>Using Pharmacogenetics Knowledge to Increase Accuracy of Alerts for Adverse Drug Events <i>Yossi Mesika, Byung Chul Lee, Yevgenia Tsimerman, Haggai Roitman, Heon Kyu Park</i></p>		

TUESDAY 30 AUGUST

11:30-13:00	PANELS & WORKSHOPS	
WS10	Information Modeling, Storage and Retrieval	N3 Bergen
	Aspects of Medical Information Search <i>Henning Müller, Allan Hanbury, Celia Boyer</i>	
WS11	Education – professional development	N4 Christiania
	Generating a research and education agenda for Critical Care Informatics <i>Reza Shahpori, Nicolette de Keizer, Ronald Cornet</i>	
WS12	Electronic Health Record, Workflow, Intra- and Interorganizational collaboration	N5 Lofoten
	Holistic Health and Social Care – the Issues for Research, Informatics, Education and Care Delivery <i>Michael Rigby, Penny Hill, Hannele Hyppönen, Albert Alonso, Jacob Hofdijk, John Mantas, Angelo Rossimori, Francesc Saigí</i>	
09:45-16:00	DEMONSTRATIONS	N6 Finnmark
	Chair: Patrick Weber Co-chair: Andrej Orel	
09:45	A Prototype of A Wireless Body Sensor Network for Healthcare Monitoring <i>Chen Chen, Andre Dias, Alois Knoll, Alexander Horsch</i>	
10:30	e-GuidesMed: Support for translation of clinical guidelines <i>Raul Barrena, Juan M. Pikatza, Ander Iruetaguena, Unai Segundo, David Buenestado, Javier Elorz, Luis Aldamiz-Echevarria</i>	
11:15	Break	
11:30	Translational Meta-Analysis Tool for Temporal Gene Expression Profiles <i>Gunter Tusch, Olvi Tole</i>	
12:15	A new concept of Knowledge and Information management in an Imaging Department: How to make use of a Wiki <i>Volker Lapczynski</i>	
13:00	Lunch	
13:45	iDoc24- Ask the dermatologist anonymously. <i>Alexander Börve</i>	
14:30	Connect 2.0: Supporting Self-management and Collaborative Care <i>Cornelia Ruland, Deede Gammon, Gro Berntsen, Haakon Bryhni, Jelena Mirkovic, Per Tømmer, Eva Skipenes, Ellen Kristiansen, Tor Andre Skjelbakken, Tone Nordøy, Idar Lettrem, Karin Sørli, David Kaufman, Justin Starren, Suzanne Bakken</i>	
15:15	Break	
15:30	MedWISE, a Highly User-configurable Web 2.0-based Electronic Health Record <i>Yalini Senathirajah, Suzanne Bakken</i>	

TUESDAY 30 AUGUST
**13:45-
15:15 PARALLEL PAPER SESSIONS**

Session 19	Decision Support, Knowledge Management, Guidelines <i>Chair: Berry de Bruyn Co-chair: Nadim Anani</i>	S2 København
	Towards a metadata registry for evaluating Augmented Medical Interventions <i>Anne-Sophie Silvent, Alexandre Moreau-Gaudry, Philippe Cinquin</i>	
	A comparison of internal versus external risk-adjustment for monitoring clinical outcomes <i>Antonie Koetsier, Nicolette de Keizer, Niels Peek</i>	
	Two-level Authoring of Computer-Interpretable Guidelines <i>David Buenestado, Juan Manuel Pikatza, Unai Segundo, Ander Iruetaguena, Raúl Barrena, Luis Aldámiz-Echevarría</i>	
	Interoperability driven integration of biomedical data sources <i>Douglas Teodoro, Rémy Choquet, Daniel Schober, Giovanni Mels, Emilie Pasche, Patrick Ruch, Christian Lovis</i>	
	Creating Knowledge Archive in the Internet Medical Consultant for Decision Support at the Point Of Care <i>Draško Nakić, Suzana Loškovska</i>	
	Architecture of a Decision Support System to Improve Clinicians' Interpretation of Abnormal Liver Function Tests <i>Raphael Chevrier, David Jaques, Christian Lovis</i>	
Session 20	Terminology, Ontologies and Standardization <i>Chair: Patrick Ruch Co-chair: Mary Sharp</i>	S2 København
	Ontology-based automatic generation of computerized cognitive exercises <i>Giorgio Leonardi, Silvia Panzarasa, Silvana Quaglini</i>	
	Creating a Magnetic resonance imaging ontology <i>Jeremy lasbleiz, Hervé Saint-Jalmes, Régis Duvauferrier, Anita Burgun</i>	
	Validation of the openEHR Archetype Library by using OWL Reasoning <i>Marcos Menárguez-Tortosa, Jesualdo Tomas Fernandez-Breis</i>	
	Grouping pharmacovigilance terms with semantic distance <i>Marie Dupuch, Magnus Lerch, Anne Jamet, Marie-Christine Jaulent, Reinhard Fescharek, Natalia Grabar</i>	
	The archetype-enabled EHR system ZK-ARCHE - Integrating the ISO/EN 13606 standard and IHE XDS profile <i>Michael Kohler, Christoph Rinner, Gudrun Hübner-Bloder, Samrend Saboor, Elske Ammenwerth, Georg Duftschmid</i>	
	Using a Logical Information Model-Driven Design Process in Healthcare <i>Yu Chye Cheong, Linda Bird, Ni Ni Tun, Colleen Brooks</i>	

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Session 21	Usability, HCI, Cognitive Issues <i>Chair: Sylvia Pelayo Co-chair: Vigdis Heimly</i>	S2 København
<p>Combining Usability Testing with Eye-Tracking Technology: Evaluation of a visualization support for antibiotic use in intensive care <i>Aboozar Eghdam, J.Johanna Forsman, Magnus Falkenhav, Mats Lind, Sabine Koch</i></p>		
<p>Design of a mobile, safety-critical in-hospital Glucose Management System <i>Bernhard Höll, Stephan Spat, Johannes Plank, Lukas Schaupp, Katharina Neubauer, Peter Beck, Franco Chiarugi, Vasilis Kontogiannis, Thomas Pieber, Andreas Holzinger</i></p>		
<p>Facilitating the Iterative Design of Informatics Tools to Advance the Science of Autism <i>David Kaufman, Patrick Cronin, Leon Rozenblit, David Voccola, Amanda Horton, Alisabeth Shine, Stephen B. Johnson</i></p>		
<p>Evaluation of Computer Usage in Healthcare Among Private Practitioners of NCT Delhi <i>Ganesh Kumar, Arun Kumar Sharma, O.P. Rajoura</i></p>		
<p>Contextual Inquiry Method for User-Centred Clinical IT System Design <i>Johanna Viitanen</i></p>		
<p>A method to measure the reduction of CO2 emissions in the e-health applications <i>Paola Di Giacomo, Peter Håkansson</i></p>		
Session 22	Electronic Health Record, Workflow, Intra- and Interorganizational collaboration <i>Chair: Anne G. Ekeland Co-chair: André Dias</i>	N2 Eidsvold
<p>Conceptual Modeling of the Healthcare Ecosystem <i>Andrei Vasileanu, Luca Dan Serbanati</i></p>		
<p>A Reference Architecture for Integrated EHR in Colombia <i>Diego M. Lopez, Edgar de la Cruz, Gustavo Uribe, Carolina Gonzalez, Bernd Blobel</i></p>		
<p>Integration services to enable regional shared Electronic Health Records <i>Ildio Oliveira, João P. S. Cunha</i></p>		
<p>Towards Smart Environments using Smart Objects <i>Martin Sedlmayr, Hans-Ulrich Prokosch, Ulli Münch</i></p>		
<p>Interoperability in hospital information systems: A return-on-investment study comparing CPOE with and without laboratory integration <i>Christian Lovis, Rodolphe Meyer</i></p>		
<p>Building the Technical Infrastructure to Support a Study on Drug Safety in a General Hospital <i>Thomas Bürkle, Melanie Kirchner, Andrius Patapovas, Anja Mathews, Reinhold Sojer, Fabian Müller, Harald Dormann, Renkec Maas, Hans-Ulrich Prokosch</i></p>		

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Session 23	Public Health, Catastrophes, Outbreaks <i>Chair: Andre Kushniruk Co-chair: Kathryn Mølstad</i>	N1 Skagen
	The Epidemiologic Surveillance of Dengue-Fever in French Guiana When achievements trigger higher goals <i>Claude Flamand, Philippe Quenel, Vanessa Ardillon, Luisiane Carvalho, Sandra Bringay, Maguelonne Teisseire</i>	
	Prescribing History to Identify Candidates for Chronic Condition Medication Adherence Promotion <i>Jim Warren, Debra Warren, Hong Yul Yang, Thusitha Mabotuwana, John Kennelly, Tim Kenealy, Jeff Harrison</i>	
	Challenges for Signal Generation from Medical Social Media Data <i>Johannes Dressman, Kerstin Denecke</i>	
	Providing trust and interoperability to federate distributed biobanks <i>Martin Lablans, Sebastian Bartholomäus, Frank Ückert</i>	
	Web 2.0 in Healthcare: State-of-the-Art in the German Health Insurance Landscape <i>Mirko Kühne, Nadine Blinn, Christoph Rosenkranz, Markus Nuettgens</i>	
	Improving the transparency of health information found on the internet through the HONcode: A Comparative Study <i>Sabine Laversin, Vincent Baujard, Arnaud Gaudinat, Maria-Ana Simonet, Célia Boyer</i>	
13:45-15:15	PANELS & WORKSHOPS	
WS13	Evaluation	N3 Bergen
	Reporting of Health Informatics Evaluation Studies <i>Jan Talmon, Michael Rigby, Nicolette de Keizer</i>	
WS14	Terminology, Ontologies and Standardization	N4 Christiania
	CEN/ISO 13606 Implementation and Communication of Health Information <i>David Moner, Gerard Freriks, José Alberto Maldonado, René Schippers, Montserrat Robles</i>	
WS15	Usability, HCI, Cognitive Issues	N5 Lofoten
	Use of Grounded Theory in Health Informatics <i>Elizabeth Borycki, Craig Kuziemy, Elizabeth Cummings, Leonie Ellis</i>	
15:15	Break	

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**15:30-
17:00** **PARALLEL PAPER SESSIONS**

Session 24	Natural Language Processing, Data Mining Chair: Ragnar Nordberg Co-chair: Merete Lyngstad	S2 København
	Schizophrenia Prediction with the AdaBoost Algorithm <i>Jan Hrdlicka, Jiri Klema</i>	
	Applying One-vs-One and One-vs-All Classifiers in k-Nearest Neighbour Method and Support Vector Machines to an Otoneurological Multi-Class Problem <i>Kirsi Varpa, Henry Joutsijoki, Kati Iltanen, Martti Juhola</i>	
	Roogle: An information retrieval engine for Clinical Data Warehouse <i>Marc Cuggia, Nicolas Garcelon, Boris Campillo-Gimenez, Thomas Bernicot, Jean-François Laurent, Etienne Garin, André Happe, Régis Duvauferrier</i>	
	Truecasing Clinical Narratives <i>Markus Kreuzthaler, Stefan Schulz</i>	
	Checking coding completeness by mining discharge summaries <i>Stefan Schulz, Thorsten Seddig, Susanne Hanser, Albrecht Zaiss, Philipp Daumke</i>	
	LinkThemAll: Mining Hybrid Semantic Associations from Medical Publications <i>Xian Wu, Honglei Guo, Keke Cai, Li Zhang, Zhong Su</i>	
Session 25	Education – professional development Chair: Simon de Lusignan Co-chair: Kirsti Elisabeth Berntsen	S3 Stockholm
	Implementation of a web-based interactive virtual patient case stimulation as a training and assessment tool for medical students <i>Arie Oliven, Rachel Nave, Dalia Gilad, Adam Baruch</i>	
	Work-integrated technology-enhanced learning - a flexible means to reduce medication errors in hospitals? <i>Grete Nettelund, Anne Moen</i>	
	Online CME Usage Patterns <i>M. Cristina Mazzoleni, Carla Rognoni, Enrico Finozzi, Ines Giorgi, Marco Pagani, Marcello Imbriani</i>	
	How do nursing students perceive the notion of EHR? An empirical investigation <i>Paris Gallos, Stelios Daskalakis, Maria Katharaki, Joseph Liaskos, John Mantas</i>	
	Recording and podcasting of lectures for students of medical school <i>Marc Cuggia, Pierre Brunet, Pierre Le Beux</i>	
	Documentary study about the Teaching of Nursing Informatics in the two capitals of Brazil <i>Polyanne Aparecida Alves Moita, Heloisa Helena Ciqueto Peres</i>	

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Session 26	Education – professional development Chair: Michael Rigby Co-chair: Eirik Årsand	S4 Oslo
Evolution of Health Web certification through the HONcode experience <i>Célia Boyer, Vincent Baujard, Antoine Geissbuhler</i>		
Personal Health Data: Patient Consent in Information Age <i>Dragana Martinovic, Victor Ralevich, Milan Petkovic</i>		
Emotions and Personal Health Information Management: some Implications for Design <i>Enrico Maria Piras, Alberto Zanutto</i>		
Socio-technical challenges in designing a web-based communication platform <i>Miria Grisot, Maja Van Der Velden, Polyxeni Vassilakopoulou</i>		
Results of the 10th HON survey on health and medical Internet use <i>Nataly Pletneva, Sarah Cruchet, Maria-Ana Simonet, Maki Kajiwara, Célia Boyer</i>		
Social connectedness through ICT and the influence on wellbeing: the case of the CareRabbit <i>Sanne Blom, Magda Boere-Boonekamp, Robert Stegwee</i>		
Session 27	Translational Research Chair: Karl Øyri Co-chair: Susanne Herzberg	N2 Eidsvold
Cell seeding of tissue engineering scaffolds studied by Monte Carlo simulations <i>Andreea Robu, Adrian Neagu, Lacramioara Stoicu-Tivadar</i>		
The ONCO-i2b2 project: Integrating biobank information and clinical data to support translational research in oncology <i>Riccardo Bellazzi, Daniele Segagni, Valentina Tibollo, Ms, Arianna Dagliati, Leonardo Perinati, Alberto Zambelli, Silvia Priori</i>		
IT-Infrastructure components to support clinical care and translational research projects in a comprehensive cancer center <i>Hans-Ulrich Prokosch, Markus Ries, Alexander Beyer, Martin Schwenk, Christof Seggewies, Felix Köpcke, Sebastian Mate, Marcus Martin, Barbara Bärthlein, Matthias Beckmann, Michael Stürzl, Roland Croner, Bernd Wullich, Thomas Ganslandt, Thomas Bürkle</i>		
Using a Robotic Arm to Assess the Variability of Motion Sensors <i>Lukas Gorzelnik, Andre Dias, Hubert Soyler, Alois Knoll, Alexander Horsch</i>		
The Single Source Architecture x4T to Connect Medical Documentation and Clinical Research <i>Philipp Dziuballe, Christian Forster, Bernhard Breil, Volker Thiemann, Fleur Fritz, Jens Lechtenörger, Gottfried Vossen, Martin Dugas</i>		
Information technology solutions to support translational research on inherited cardiomyopathies <i>Riccardo Bellazzi, Cristiana Larizza, Matteo Gabetta, Giuseppe Milani, Mauro Bucalo, Francesca Mulas, Angelo Nuzzo, Valentina Favalli, Eloisa Arbustini</i>		

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**15:30-
17:00** **PANELS & WORKSHOPS**

WS16	Information Modeling, Storage and Retrieval	N1 Skagen
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Common Infrastructure Software for eHealth, Telemedicine and Ambient Assisted Living based on Open Source Software
Thomas Karopka, Elizabeth Cummings, Ståle Walderhaug, Erlend Stav

WS17	Usability, HCI, Cognitive Issues	N3 Bergen
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Safety of Health Information Technology: Identifying and Mitigating Risks
Farah Magrabi, Jos Aarts, Marie-Catherine Beuscart-Zéphir, Christian Nøhr

WS18	Terminology, Ontologies and Standardization	N4 Christiania
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From an ontology framework standard to terminologies
Jean Marie Rodrigues, Anne Casey, Richard Madden, Cédric Bousquet, Sukil Kim

POSTERS, ON DISPLAY ALL DAY TUESDAY

CORRIDOR

KNOWLEDGE MANAGEMENT AND DECISION SUPPORT

- 1 **Information Retrieval in Electronic Health Record: A feasibility study**
Ahmed-Diouf Dirieh-Dibad, Nicolas Griffon, Saoussen Sakji, Suzanne Pereira, Philippe Massari, Stéfan Darmoni

- 2 **Clinical decision support for the choice of treatment using case-based reasoning**
Alexander Serykh, Sergey Karas, A. Kazantceva, N. Menshib, G. Kopanitsa

- 3 **The specification of a Semantically Enriched eCRF tool**
Anna Nixon Andreasson, Johan Ellenius, Lars Agréus, Brendan C. Delaney, Paul van Royen, Adel Taweel

- 4 **Detailed Clinical Models to Facilitate Inter-Standard Interoperability of Data Types**
Diego Bosca, José Alberto Maldonado, David Moner, Montserrat Robles

- 5 **Empirical Approach to Event Sequencing in Automatic Analysis of Patient Records**
Dimitar Tcharaktchiev, Svetla Boytcheva, Galia Angelova

- 6 **Pathogens and Genome Normalization for Literature-based Knowledge Discovery**
Dina Vishnyakova, Emilie Pasche, Douglas Teodoro, Patrick Ruch, Christian Lovis

- 7 **Standardized Nursing Care Set for Asthma Patients based on the Clinical Knowledge for Nursing**
Fumiko Wako, Makiko Uchiyama, Ryoma Seto, Eiko Okamine, Satoko Tsuru

- 8 **Applying Fuzzy Logic and Linguistic Summarization for Monitoring Functional Decline of Elders**
Gregory L. Alexander, Derek T. Anderson, Mihail Popescu, James M. Keller, Marjorie Skubic, Marilyn Rantz

- 9 **Consuming Physicians' Non-compliance with Clinical Guidelines: Other Side of Coin**
Haifeng Liu, Jing Mei, Guotong Xie, Baoyao Zhou, Shengping Li

- 10 **Reaching out - A Multidisciplinary Master's Programme in Health Informatics**
Kirsti Elisabeth Berntsen, Arild Faxvaag, Signe-Line Mjøen,

- 11 **Using SNOMED CT for High Precision Entity Recognition in Swedish Clinical text**
Maria Skeppstedt, Hercules Dalianis

- 12 **Prototype Implementation of the Continua Design Guidelines: Experiences and Results**
Tom Döhring, Martin Staemmler

- 13 **Introduction of a New Clinical Pathway for Neonatal Care by Application of PCAPS**
Nodoka Miyazaki, Tetsuya Kokabu, Tomohiko Murase, Yasuyuki Kishigami, Hidenori Oguchi, Yumiko Iwao, Satoko Tsuru and Yoshinori Iizuka

- 14 **Drug Labels Knowledge Representation**
Peter L. Elkin, John S. Carter, Manasi Nabar, Mark Tuttle, Michael Lincoln, Steven H. Brown

- 15 **A Systematic Comparison Of The Austrian Procedure Catalogue And The Classification Commune Des Actes Médicaux**
Sabrina Barbara Neururer, Karl-Peter Pfeiffer

- 16 **MOSAIC: Modular Ontology Semantics Architecture for Federated Biobanking**
Sebastian Bartholomäus, Martin Lablans, Frank Ückert

- 17 **Using Business Intelligence and Reporting Tools for Supporting Nursing Leaders in Management of the Nursing Process**
Werner O Hackl, Franz Rauchegger, Elske Ammenwerth

POSTERS, ON DISPLAY ALL DAY TUESDAY

CORRIDOR

SIMULATIONS, PREDICTIONS AND STATISTICS

-
- 18 A Method for Accurate Estimation of Busulfan AUC and Its Confidence Interval**
Harukazu Tsuruta, Mariko Fukumoto, Leon Bax
-
- 19 A Taxonomy for Describing Transinstitutional Information System Architectures in Health Care**
Nathalie Gusew, Reinhold Haux
-
- 20 Building a Circle of Trust for the Virtual Hospital Network of the ALIAS project**
Emmanuel Eyraud, Thierry Durand, Edouard Barthuet, Romain Bochet, Frédérique Laforest
-
- 21 Clinical Data Modeling Using Archetype Technology for National Surveillance of Intractable Diseases in Japan**
Shinji Kobayashi, Eizen Kimura, Takeki Yoshikawa, Hugh Leslie, Heather Leslie, Ken Ishihara, Masaki Yasukawa, Tomohiro Kuroda, Hiroyuki Yoshihara
-
- 22 Development of Data Models for Nursing Assessment of Cancer Survivors Using Concept Analysis**
Myung Kyung Lee, Hyeoun-Ae Park
-
- 23 Human-Centered Design of a Scorecard tool for Adverse Drug Events**
Romarc Marcilly, Werner O Hackl, Sylvia Pelayo, Sylvain Hassler, Costanza Riccioli, Marie-Catherine Beuscart-Zéphir
-
- 24 Insulin Dependent Diabetes Mellitus Rats and Autoimmune Diabetes**
Rainer Schmidt, Georg Fuellen
-
- 25 Predicting Relapse of Schizophrenia**
Petr Nalevka
-
- 26 SAS-MAP: A new Graphic Report for Sleep Apnea Syndrome**
Adrien Ugon, Jean-Gabriel Ganascia, Carole Philippe, Hélène Amiel, Pierre Lévy
-
- 27 Staging disease with PROTEGE 4: Example of Multiple Myeloma**
Eric Brillet, Valerie Bertaud Gounot, Olivier Decaux, Regis Duvauferrier, Jeremy Llasbleiz
-
- 28 Implementation of a CEN/ISO 13606 Platform for Medicines Reconciliation**
David Moner, Marta Terrón, Carlos Angulo, Luis Lechuga, Pablo Serrano, José Alberto Maldonado, Francisco J. Farfán, Montserrat Robles
-
- 29 The need for SNOMED CT translations**
Philipp Daumke, Josef Ingenerf, Christel Daniel, Lene Asholm, Stefan Schulz
-

TUESDAY 30 AUGUST

09:55-16:00 **INTRODUCTION TO HEALTH INFORMATICS 2011** **N2**
Chair: Arild Faxvaag **Lofoten****Introduksjon i helseinformatikk**

IKT-løsninger blir stadig mer sentrale i helsesektoren – noe som er tema for konferansen MIE2011. I denne forbindelse tilbys et eget introduksjonskurs i helseinformatikk for helsepersonell, som praktiserer på sykehus eller i primær- og kommunehelsetjenesten, og har en spesiell interesse for IKT eller er engasjerte i utviklings- eller innføringsprosjekter. *Det kreves ingen forkunnskaper.* Ledende helseinformatikere underviser på kurset, som blant annet vil gå inn på begreper, lover og regler, utarbeidelse og bruk av kravspesifikasjoner, testing i forbindelse med innføring og evaluering for å vurdere bruk og nytteverdi. Gjennom å delta på kurset vil deltagerne komme i kontakt med helsepersonell som har sitt daglige virke i grenselandet mellom helse og IKT, og vil få anledning til å bygge nettverk mot disse personene og de fagmiljøene de tilhører. Kurset kombinerer deltakelse på MIE sesjoner (teller 7 timer) og en spesiell innføringsdel (teller 7 timer).

Velkommen og introduksjon*Arild Faxvaaga***Hva er helseinformatikk?***Arie Hasman***Hva er sentrale utviklingstrekk i dag?****Hva er brukersentrert utvikling, og hvilke metoder er relevante for utvikling av kliniske systemer***Børge Lillebo***12:00** **Lunch****Hva er sentrale krav til utvikling og testing av systemer med høy nytteverdi og brukskvalitet***Øystein Nytrø***Behandlingsrettede IT-systemer, taushetsplikt og personvern***Arild Faxvaag***Behandlingsrettede IT-systemer og pasientsikkerhet***Hallvard Lærum***Bruk av opplysninger i elektronisk pasientjournal til kvalitetssikringsformål***Arild Faxvaag***Evaluering av helsepersonells bruk av EPJ og andre kliniske IKT systemer***Hallvard Lærum***Gjennomgang av Programmet for MIE 2011*****Kurset er godkjent av Den norske legeforening og Norsk sykepleierforbund.***

TUESDAY 30 AUGUST

09:45-16:00 **SCANDINAVIAN CONFERENCE ON HEALTH INFORMATICS (SHI2011)** *Telemark*

09:45-11:15 **Electronic Health Record systems and solutions** *Telemark*
Chair: Ole Hejlesen Co-chair: Rune Fensli

How to Distinguish Double Documentation from Documentation of Distinct Data
Gert Galste

Modeling human comprehension of Swedish medical records for intelligent access and summarization systems – Future vision, a physician's perspective
Maria Kvist, Maria Skeppelstedt, Sumithra Velupillai, Hercules Dalianis

Health Portals and Clinical Phenotypes – Recognition using SNOMED CT.
Dimitrios Kokkinakis

The Medical WhiteBoard Project – New Opportunities for Scheduling and Planning Clinical Work
Thorhallur Gudmundsson, Inger Dybdahl Sørby

Trial on Use of Secondary Data for Extraction of Quality Indicators from the Inpatient Care Support System
Ryoma Seto, Sumie Ohashi, Kumiko Yamaguchi, Sayuri Yamashita

11:15 Break

11:30-13:00 **Security, usability, collaboration** *Telemark*
Chair: Grete Bach Co-chair: Ragnhild Hellestø

When security prevents efficient workflow, users don't follow security rules
Henriette Mabeck

Balancing Machine Work, Comfort Work, and Sentimental Work: A Field Study of Patient Care in the Ambulance
Maria Le Pedersen, Magnus Hansen, Morten Hertzum

A Decision Support and Documentation System for Treatment of Chronic Ulcers
Mikkel F. Andresen, Ann-Sofie H. Henriksen, Mette Dencker Johansen, Ole K. Hejlesen

Evaluation of the Usability of a Care Plan Module Used by the Home Care Services
Tordis Vibeke Iselvmø, Laila Merete Lindland, Siri Kolstad Aanesland, Mariann Fossum

Exploring the Use of Educational Video Games as self-management tools for Children and Adolescents with Type 1 Diabetes Mellitus
Jonas Lauritzen, Eirik Årsand, Alexander Horsch, Luis Fernandez-Luque, Taridzo Chomutare, Johan Gustav Bellika, Ole Hejlesen, Gunnar Hartvigsen

TUESDAY 30 AUGUST

13:00	Lunch	
13:45-15:15	Home care solutions <i>Chair: Pia Britt Elberg Co-chair: Gunnar Hartvigsen</i>	Telemark
	Improving Quality of Life through Early Detection of Incontinence Events <i>Gynter Schneider, Lasse Lefevre Samson, Jens Henrik Rauff Hansen, Hans Christian Riis, Birthe Dinesen, John Hansen</i>	
	Online prediction of Exacerbation in Patients with Chronic Obstructive Pulmonary Disease Using Linear Discriminant Pattern Classification <i>Morten Hasselstrøm Jensen, Simon Lebech Cichosz, Birthe Dinesen, Ole K. Hejlesen</i>	
	User requirements for a Personalized Electronic Community for Elderly People with Risk of Marginalization <i>Elin Thygesen, Marthe M.F. Fensli, Ragnhild Skaar, Hans Inge Sævareid, Yan Li, Rune Fensli</i>	
	Ethicsweb – information system for ethics in science <i>Jure Dimec, Brane Leskošek, Minja Zorc</i>	
	Experiences with Alarm and Warning Systems Used in Home Care Services <i>Mariann Fossum, Erica Fredriksen, Cecilie Karlsen</i>	
15:15	Break	
15:30	Workshop: Scandinavian openEHR and ISO13606 <i>Coordinator: Erik Sundvall</i>	Telemark
	<i>Nadim Anani, Johan Gustav Bellika, Knut Bernstein, Rong Chen, Daniel Karlsson, Louise Pape-Haugaard, Erik Sundvall</i>	

WEDNESDAY 31 AUGUST

08:30-09:15 **PLENARY SESSION** *Scandinavia-hallen*
 Chair: **Jos Aarts** Co-chair: **Heleen van der Sijs**

Envisioning the patient, medicines, technology triad
 by **Nick Barber**

09:15 Break

09:45-11:15 **PARALLEL PAPER SESSIONS**

Session 28 **EFMI invited session; Health Informatics Research Management** **S1 Helsinki**
 Chair: **John Mantas** Co-chair: **György Surjan**

Medical Informatic Research Management in Academia - the Danish Setting
Stig Kjær Andersen

Research management in healthcare informatics – experiences from Norway
Arild Faxvaag, Pieter J Toussaint, Trond S Johansen

Research Management: the case of RN4CAST
Dimitrios Zikos, John Mantas

eMeasures: A standard format for Health Quality Measures
Catherine Chronaki, Charles Jaffe, Bob Dolin

Clinical information systems: cornerstone for an efficient hospital management
Christian Lovis

Patient Centered Integrated Clinical Resource Management
Jacob Hofdijk

Session 29 **Electronic Health Record, Workflow, Intra- and Interorganizational collaboration** **S2 København**
 Chair: **James Brennan** Co-chair: **Farah Magrabi**

Implementing change in a diverse and politicized landscape
Espen Skorve

Characteristics of German hospitals adopting health IT systems – results from an empirical study
Jan-David Liebe, Nicole Egbert, Andreas Frey, Ursula Hübner

Nursing Information System: A relevant substitute of the paper nursing record
Margreet B. Michel-Verkerke

GP Connector: A tool to enable access for general practitioners to a Standards-based Personal and Electronic Health Record in the Rhine-Neckar Region
Oliver Heinze, Holger Schmuhl, Björn Bergh

WEDNESDAY 31 AUGUST

Proposal of an end-to-end Emergency Medical System
Samir El-Masri, Basema Saddik

The General Practitioner in the Giant's Web
Vigdis Heimly

Session 30 **Terminology, Ontologies and Standardization** **S3**
Chair: Margunn Aanestad *Co-chair: Olof Torgersson* **Stockholm**

SNOMED CT implementation: Implications of choosing Clinical findings or Observable entities
Anne Randoff Rasmussen, Kirstine Rosenbeck

What is the Coverage of SNOMED CT® on Scientific Medical Corpora?
Dimitrios Kokkinakis

Assisting the translation of the CORE Subset of SNOMED CT into French
Michel Joubert, Hocine Abdoune, Tayeb Merabti, Stéfan J. Darmoni, Michel Joubert

Creating a SNOMED CT Genetic Disorder Subset
John S. Carter, Manasi M. Nabar

Recording associated Disorders using SNOMED CT
Ronald Cornet, Nicolette de Keizer

SNOMED CT's RF2: is the Future Bright?
Werner Ceusters

Session 31 **Information Modeling, Storage and Retrieval** **S4**
Chair: Mikhail Shifrin *Co-chair: Helena Lindgren* **Oslo**

A Novel Way of Standardized and Automized Retrieval of Timing Information along Clinical Pathways
Eva Gattnar, Okan Ekinici, Vesselin Detschew

Computing the Compliance of Physician Drug Orders with Guidelines Using an OWL2 Reasoner and Standard Drug Ressources
Jacques Bouaud, Joseph Noussa Yao, Brigitte Séroussi

Automatic definition of the oncologic EHR data elements from NCIT in OWL
Annabel Bourdé, Marc Cuggia, Bruno Turlin, Sébastien Vincendeau, Valerie Bertaud, Catherine Bohec, Régis Duvauferrier

A Framework for Context Elicitation in Medicine
Radja Messai, Nathalie Bricon-Souf, Stephanie Bernonville, Romaric Marcilly, Jean-Marie Renard SC

Developing a model for the adequate description of electronic communication in hospitals
Samrend Saboor, Elske Ammenwerth

Contextualization in automatic extraction of drugs from Hospital Patient Records
Svetla Boytcheva, Dimitar Tcharaktchiev, Galia Angelova

WEDNESDAY 31 AUGUST

Session 32	Citizen-centred e-Health <i>Chair: Celia Boyer Co-chair: Sven Koch</i>	N2 Eidsvold
Technological Choices for Mobile Clinical Applications <i>Frederic Ehrler, David Issom, Christian Lovis</i>		
Modified Rand Method to Derive Quality Indicators: A Case Study in Cardiac Rehabilitation <i>Niels Peek, Mariëtte van Engen-Verheul, Harelde Kemps, Roderik Kraaijenhagen, Nicolette de Keizer</i>		
A cloud-based semantic wiki for user training in healthcare process management <i>Despina Papakonstantinou, Mikaela Poulymenopoulou, Flora Malamateniou, George Vassilacopoulos</i>		
Reference Architecture of Application Services for Personal Wellbeing Information Management <i>Juha Mykkänen, Mika Tuomainen</i>		
Development of a web-based decision support system for insulin self-titration <i>Airin Simon, F. Holleman, J.B. Hoekstra, P.A. De Clercq, B.A. Lemkes, J. Hermanides, N. Peek</i>		
TreC - a REST-based Regional PHR <i>Claudio Eccher, Enrico Maria Piras, Marco Stenico</i>		
09:45-11:15	PANELS & WORKSHOPS	
P4	Citizen-centred e-Health	N1 Skagen
What Works in User-Centered Health Informatics Evaluation? <i>Eric L. Eisenstein, Andre W. Kushniruk, Jos Aarts</i>		
P5	Usability, HCI, Cognitive Issues	N3 Bergen
User-Centered healthcare IT: Meaningful or Meaningless? <i>Nick Barber, Tony Cornford, Ela Klecun, Valentina Lichtner, Amirhossein Takian</i>		
WS19	Telemedicine and Mobile Health	N4 Christiania
The telemedicine and eHealth equation - proposal for an updated view on the Teorem of Medical Informatics <i>Johan Gustav Bellika, Per Erlend Hasvold, Anne G. Ekeland, Gunnar Hartvigsen</i>		
WS26	Terminology, Ontologies and Standardization	N6 Finmark
The International Classification for Nursing Practice (ICNP): From theory to application <i>Ann Kristin Rotegård, Claudia Barz, Hyeoun-Ae Park, António Manuel V. A. da Silva, Alison Wallis, Kathryn Niemi Mølsted</i>		
11:15	Break	

WEDNESDAY 31 AUGUST

11:30-13:00 PARALLEL PAPER SESSIONS

Session 33	Terminology, Ontologies and Standardization <i>Chair: Alberto Alosa Co-chair: Anna Marie Høstgaard</i>	S1 Helsinki
	A Study of Archetype Development Processes <i>Alberto Moreno, Damon Berry, Carlos Parra</i>	
	Serious Adverse Event Reporting in a Medical Device Information System <i>Fabrizio Pecoraro, Daniela Luzi</i>	
	Metadata - an international standard for clinical knowledge resources <i>Gunnar O Klein</i>	
	Comparing existing national and international classification systems of surgical procedures with the CEN/ISO 1828 ontology framework standard <i>Jean Marie Rodriguos, Anne Casey, Cédric Bousquet, Anand Kumar, Pierre Lewalle, Béatrice Trombert Paviot</i>	
	Model Driven Development of Clinical Information Systems using openEHR <i>Koray Atalag, Hong Yul Yang, Ewan Tempero, Jim Warren</i>	
	Exchanging Data via openEHR for Patient-Specific Overviews in Intensive Care: A Case Study <i>Nadim Anani, Rong Chen, Sabine Koch</i>	
Session 34	Electronic Health Record, Workflow, Intra- and Interorganizational collaboration <i>Chair: Christian Nøhr Co-chair: Linda Peute</i>	S2 København
	When Information Sharing is not Enough <i>Berit Brattheim, Arild Faxvaag, Pieter Toussaint</i>	
	Information and communication needs of healthcare workers in the perioperative domain <i>Børge Lillebo, Andreas Seim, Arild Faxvaag</i>	
	Clinical situations and information needs of physicians during treatment of Diabetes mellitus patients: A Triangulation Study <i>Elske Ammenwerth, Gudrun Hübner-Bloder, Georg Duftschmid, Michael Kohler, Christoph Rinner, Samrend Saboor</i>	
	A constructivist approach? using formative evaluation to inform the Electronic Prescription Service implementation in Primary Care, England <i>Jasmine Harvey, Anthony Avery, Justin Waring, Ralph Hibberd, Nicholas Barber</i>	
	Can Cloud Computing Benefit Health Services? - A SWOT Analysis <i>Mu-Hsing Kuo, Andre Kushniruk, Elizabeth Borycki</i>	

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Session 35	Information Modeling, Storage and Retrieval Chair: Knut Bernstein Co-chair: Rune Fensli	S4 Oslo
	Revisiting the area under the ROC Berry de Bruijn	
	A Quality Management System for Interoperability Testing Morten Bruun-Rasmussen, Ib Johansen, Karima Bourquard, Eric Poiseau, Milan Zoric, Charles Parisot, Michael Onken	
	Mobile Information Retrieval in Medicine: A Semantic Approach Markus Kreuzthaler, Marcus Bloice, Lukas Faulstich, Klaus-Martin Simonic, Andreas Holzinger	
	Service Delivery for e-Health Applications Martin Staemmler	
	An Open, Trustworthy and Multilingual Search Engine for Medical Practitioners Matthias Samwald, Marlene Kritz, Manfred Gschwandtner, Veronika Stefanov, Allan Hanbury	
	A KPI framework for process-based benchmarking of hospital information systems Franziska Jahn, Alfred Winter	
Session 36	Imaging and Biosignals Chair: Thomas Bürkle Co-chair: Pekka Ruotsalainen	N2 Eidsvold
	Extracting Gait Parameters from Raw Electronic Walkway Data Andre Dias, Lukas Gorzelniak, Angela Döring, Gunnar Hartvigsen, Alexander Horsch	
	Safe Storage and Multi-modal Search for Medical Images Henning Müller, Jukka Mommeri, Marko Niinimäki,	
	Respiration tracking using the Wii Remote game-controller Julian Guirao Aguilar, Johan Gustav Bellika, Luis Fernandez-Luque, Vicente Traver Salcedoc	
	A Nomenclature for the Analysis of Continuous Sensor and Other Data in the Context of Health-Enabling Technologies Matthias Gietzelt, Klaus-Hendrik Wolf, Reinhold Haux	
	Image-based Classification of Parkinsonian Syndromes Using T2'-Atlases Nils Daniel Forkert, Alexander Schmidt-Richberg, Brigitte Holst, Alexander Münchau, Heinz Handels, Kai Boelmans	
	Cell edge detection in JPEG2000 wavelet domain-analysis on sigmoid function edge model Vytenis Punys, Ramunas Maknickas	

WEDNESDAY 31 AUGUST
**11:30-
13:00**
PANELS & WORKSHOPS

WS20	Translational Research	N1 Skagen
INBIOMEDvision: Promoting and Monitoring Biomedical Informatics in Europe <i>Ferran Sanz, Søren Brunak, Victoria López-Alonso</i>		
WS21	Citizen-centred e-Health	N3 Bergen
Smart Homes and Wearable Sensors in Healthcare - infrastructures and applications <i>Michael Marschollek, Feng Tian, Sabine Koch, Alexander Horsch, George Demiris</i>		
WS22	Electronic Health Record, Workflow, Intra- and Interorganizational collaboration	N4 Christiania
Social Care Informatics - a new landscape in professionals' curriculum? <i>Albert Alonso, Francesc Saigi, Michael Rigby, John Mantas</i>		
WS23	EPOS	S3 Stockholm
EPOS – EFMI Professional Organised event System information advisory <i>Stig Kjær Andersen</i>		
WS24	European Convergence Workshops	N5 Lofoten
On behalf of the CONVERGENCE network <i>Christian Lovis</i>		
WS25	ICNP	N6 Finmark
<i>Ann Kristin Rotegård, Claudia Barz, Hyeoun-Ae Park, António Manuel V. A. da Silva, Alison Wallis, Kathryn Niemi Mølsted</i>		

13:00
PLENARY CLOSING CEREMONY
**København
& Stockholm**
*Chair: **Petter Hurlen** Co-chair: **M. Cristina Mazzolini***
Awards

Rolf Hansen Prize	Camilla Glasø
Peter L. Reichertz Prize	Sabine Koch
Best Poster Award	Elske Ammenwerth

**Scientific highlights
during MIE2011**
***Dr. Jos Aarts**, SPC chair*
EFMI activities
***John Mantas**, EFMI President*
**Upcoming EFMI events
STC2012 & MIE2012**
14:00
Lunch
Thank you for your contribution, good bye and see you at MIE2012!

PARTNERSHIP IN INNOVATION

Partnership in Innovation is new activity in the MIE conferences where EFMI intuitional members and other corporate affiliates can present development, deployment or implementation of their products. Here are opportunities to discuss topics of interest in depth and detail to bridge application and service development with research development.

MONDAY 29 AUGUST 2011

09:45-13:00

Chair: **Catherine Chronaki**

**S1
Helsinki**

Healthcare Information Standards for Active Aging: State of Play for Patient Summaries

Catherine Chronaki, Christian Hay, Anne Moen on behalf of HL7 and GS1 in collaboration with FDH

Abstract: The topic is challenges for interoperability, technology and standards related to patient summaries. A story of a health-illness trajectory of an elderly woman hampered by chronic disease with an acute episode will frame discussion. The contributors will discuss strategic and operational initiatives, by HL7, GS1 and others, to point to potentials out

- 1) sustainability of healthcare systems,
- 2) quality of care,
- 3) innovative, interoperable solutions based on standards, and
- 4) support for the EU digital agenda key actions on standards and innovation.



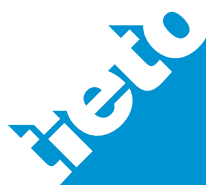
15:30-18:30

Chair: **Pieter Toussaint**

**S1
Helsinki**

Pieter Toussaint in collaboration with Siemens, Imatis, HP, Sonitor, Tieto

Abstract: In this invitational track five companies active at the market for Health Information Systems share and discuss their vision on how the future services infrastructure for supporting clinical work could look like. They take their current product developments as a starting point. The five companies' presentations will be followed by plenary discussion.



TUESDAY 30 AUGUST 2011

09:45-
13:00

Chair: **Kathrine Myhre**

S1
Helsinki

Kathrine Myhre, Oslo Medtech in collaboration with University of Oslo, the Norwegian Research Council, Teknologisk Institutt

The Objective of the initiative is to prepare institutions, companies and researchers for the last calls in the EU 7th Framework Program, and inform of what we can expect by and Teknologisk Institutt . The Research Council is responsible for enhancing Norway's knowledge base and create meeting places for researchers, funders and users of research findings to promote basic and applied research and innovation to meet research needs within society. The Research Council has the national responsibility to coordinate the cooperation agreement between Norway and EU on Norway's participation in the EU Seventh Framework Programme for Research and Technological Development (FP7) and provides information and guidance to Norwegian industry, researchers and government authorities on European research cooperation. The session will also facilitate "speed dating" - one2one meetings - to start developing for future EU-application consortiums and partnerships. www.oslomedtech.no/Events/MIE2011EUWorkshop.aspx

Programme

09:45

Welcome by Oslo Medtech and the Research Council of Norway

Introduction to the 8th RP, by **Benoit Abeloos**, Unit H1 - ICT for Health, European Commission Information Society & Media DG

The EU Programmes and calls seen from Norway: How can we help facilitate partnerships and stimulate EU research applications? By **the Research Council of Norway (TBC)**

CONVERGENCE consortium; example of successful partnering in research and EU projects – by **Christian Lovis**, University Hospitals of Geneva, Switzerland

EU Partnership possibilities at the University of Oslo in health and technology – by the Faculty of Medicine, University of Oslo (TBC) and **Morten Dæhlen**, Department for Informatics, Faculty of Natural Sciences, University of Oslo

Experience from consortiums and partnerships; Research and innovation in Toulouse, France. By **Mr. Julien Venne**, Director of Centre e-Santé

11:55

Break

12:10

Case presentations: Company experience from EU projects in eHealth and Medical Technology
Case 1: Virtual health treatment environment. By **Flemming Hegerstrøm**, CEO Hospital IT AS

Teknologisk institutt - Your partner for a successful R&D project funded by EU, by **Frode Paulsen**, TI, Oslo, Norway

Oslo Medtech EU strategy and service for EU partnerships, by **Kathrine Myhre**, Oslo Medtech

Introduction to "Partnering for EU": Speed dating, project pitching and one2one meetings between possible future partners

13:00

Networking Lunch

14:00-
16:00

Partnering for EU: Project pitching: One2one meetings



The Research Council
of Norway



Oslo medtech

UiO : University of Oslo



WEDNESDAY 31 AUGUST 2011

09:45-
11:15Chair: **Kim Hoel Halvorsen****N5**
Lofoten**Siemens – a partner in the Healthcare continuum***Kim Hoel Halvorsen, Jens Ellingsen and colleagues on behalf of Siemens Medical*

Innovative new solutions for process support for the Healthcare continuum can enable healthcare professionals to perform diagnosis and start treatment earlier, improve continuous workflows and documentation, and increase patient safety, quality and reduce costs. syngo.via pre-processes various images at the Radiology department according to disease-specific requirements, and automatically pre-selects information to provide insightful guidance for faster and easier diagnostic work at reduced costs. DocuLive EPR supports the complex clinical workflow in hospitals and increases efficiency of healthcare. DocuLive is a secure, flexible and user-friendly system that raises the standard of quality in treatment and care processes. Siemens broad portfolio of performance-driven diagnostics IT solutions for the laboratory provides effective support in diagnosing, monitoring, and managing diseases, giving clinicians necessary information to provide quality patient.

SIEMENS09:15-
13:00Chair: **Christian Lovis****N5**
Lofoten**Semantics and ontologies for a pan-European infostructure - opportunities and challenges for convergence***By Christian Lovis and the European Convergence Consortium*

The Second European Convergence Workshop to build a European health Interoperability Platform will address Opportunities and challenges for convergence of Semantics and ontologies for a pan-European infostructure. The pan-European infostructure vision relates to better exploiting EU and nationally funded projects and implementation initiatives that may develop and contribute knowledge and components for to an infostructure. In a broad sense, a pan-European infostructure may be composed of biomedical and health/medical research and knowledge databases, public health data repositories, health education information, electronic patient and personal health records respectively data warehouses, etc. It will require leadership and management, sustained organisational structures, well-governed processes and funding as well as a supportive, secure ICT infrastructure/network.



MIE2011 VILLAGE OF THE FUTURE

The "MIE2011 village of the future" is arena for collaboration and sharing based on ongoing R&D projects. This village has three strands. They are:

- 1) personal health information systems featuring support for interaction with health care providers or support for self-care,
- 2) tools and solutions for ambient assisted living that enable independence, autonomy and self-management, ensure safety and security, assist recovery or manage persistent health problems, and
- 3) components of future health service infrastructure, aiming to support seamless trajectories of care across hospitals, community health and primary care services.

For full description of all participants see:

www.oslomedtech.no/Events/MIEVillageoftheFuture2011.aspx

09:00-
20:00

MONDAY 29 AUGUST 2011

N1 Skagen,
N2 Eidsvold,
N3 Bergen

Organized in partnership with Oslo Medtech



Oslo Medtech contributes to development of a sustainable international known, esteemed and competitive Norwegian medtech and eHealth industry. Oslo Medtech is a cluster of about 100 companies, hospitals, finance-, knowledge and research institutions. Oslo Medtech generates innovation and facilitates development of Medtech and ehealth products and services.

Read more at www.oslomedtech.no



Innovation Norway is the Norwegian Government's most important instrument for innovation and development of Norwegian enterprises and industry. We support companies in developing their competitive advantage and enhance innovation, and provide competence, advisory services, promotional services and network services. Norwegian enterprises have access to a broad business support system as well as financial means. Within Life Science and Health Care we are well represented through our branch offices in Europe, Asia and Americas. Read more at

www.innovasjon Norge.no/Contact-us/



The Nordic Portal is the Nordic countries' platform for small and medium-sized technology companies starting business in China. Nordic Portal is a joint initiative by Nordic Industrial Park, the Nordic countries and China to make it easier, faster, cheaper, and safer for Nordic technology companies to initiate business with or in China. Nordic Portal provides integrated service-and-facility solutions to companies, as well as convenient access to a broad range of technical expertise at preferential prices. Read more at www.nordicportal.org

BRIEF PRESENTATION OF PARTICIPANTS:

ALMAS House



ALMAS House will be a 'visiting smart-house', where companies can exhibit different solutions, products and services for people with dementia – and dementia and elderly with mental disorders and their families can come and try out the different products and services before use. ALMAS House is organized by GERIA. GERIA assist health personnel in nursing homes and in home based care in their services to people with dementia and elderly with mental disorders and their families.

www.helse-og-velferdsetaten.oslo.kommune.no/demens_og_alderspsykiatri/

debugIT



DebugIT provides tools for detecting patient safety related patterns and for acquisition of new knowledge to improve the quality of healthcare. For example, with increasing antibiotics use, new challenges surface: emergence of resistances among pathogens, overuse of antibiotics, escalating healthcare costs, increased morbidity and mortality and (re-)emergence of potentially untreatable pathogens. The project uses clinical and operational information from Clinical Information Systems (CIS) across Europe through a virtualized, fully integrated Open Source based Clinical Data Repository. Transparent access to original CIS together with data aggregations stored locally are consolidated through ontology and terminology binding and mediation, advanced data mining techniques, and use of machine reasoning related to real, point-of-care patient data. www.debugit.eu

Dignio AS



Dignio develops products to enable elderly and fragile with long term conditions to live at home – in comfort and dignity - longer. Collaborating with home care nurses, our services will enable individuals to take better care of themselves - to be in control of their own health, and when they need more assistance or in an emergency we will ensure there is someone familiar with the user watching over them to help out. www.dignio.com

Forget-me-not AS



Forget-me-not AS aims to support independent living of people with dementia and to promote their wellbeing through provision of enabling technological products/services. Based on "The Forget-me-not" calendar introduced in 1998, followed by the "Night and day" calendar introduced in 2004, development and testing of an Internet-based service to support memory and pleasure is underway with partners in Norway, Germany and England. www.forgetmenot.no/english

GNU Telephony



GNU Telephony goal is to enable secure and private real-time communication worldwide where anyone to use free as in freedom software for telephony, and with the freedom to do so on any platform they choose to use. We wish to make it easy to use the Internet for real-time voice and video communication, and all forms of real-time collaboration. Finally we wish to make it possible to communicate securely and in complete privacy by applying distributed cryptographic solutions. www.gnutelephony.org/

iMEDIA Tracking



iMEDIA Tracking specializes in design and production of LBS (Location-Based Search) applications for mobile devices and mobile-to-web solutions. By combining mobile and web platforms with a simple, effective white label API solution we can easily integrate our mobile services into any existing web-based solutions and different areas of LBS mobile platform solutions. www.iglobaltracking.com

The Intervention Centre – Oslo University Hospital



The Intervention Centre is a clinical research and development centre at Oslo University Hospital. The Centre focuses on minimal invasive image guided therapy, has a multi professional staff and cutting edge clinical facilities. Oslo Medtech and The Intervention Centre collaborate to establish a Life Science Testbed as an arena to bridge the gap between inventors, startup companies and health care institutions. The Intervention Centre presents a selection of eHealth related projects at MIE 2011. www.ivs.no

Inven2



Inven2 transfer science and technology into valuable products and services, and is co-owned by the University of Oslo and Oslo University Hospital. Inven2 use commercial routes like licensing of technology, collaboration agreements between research and existing industry, and start-up of new companies, to increase knowledge exchange between research and industry to the benefit of society. Inven2 also facilitate need-driven innovation projects that clearly identify unmet user needs with a market potential and find technology/companies that can meet actual needs and see how technology can be used in new ways. Follow us at www.inven2.com



Linus AS, UbiSafe AS, Oslo and Akershus University College of Applied Sciences

Representing a multi-discipline team of R&D professionals, Linus AS, UbiSafe AS and Oslo and Akershus University College of Applied Sciences team up to offer competence and services covering Wireless Biomedical Sensors and Networks, Sensor development and testing, Sensor and System integration with laboratory, healthcare and hospital systems, Secure and Personalized Information Exchange between healthcare systems, personnel and patients.

MedOnTime

MedOnTime develops products and services for supplying the right medication at the right time for patients living at home. The solution is a MultiDispenser for Multidose packages of pills. The MultiDispenser ensures quality and control of the supply of the right medicines at the right time for Multidose users. In addition MedOnTime Develop and supply solutions for direct feedback to chemists and doctors of compliance of medication regime. www.medontime.no

PubGene AS

The PubGene vision is to become a leading supplier of domain-specific information search and analysis solutions through the Coremine product line. Coremine Medical (www.coremine.com) is a service for the medical information domain using medical terms and knowledge to index and analyze information from high quality medical information sources together with other internet sources of information. www.pubgene.com

Setred AS

Setred provides a new unique 3D display technology that enables full depth experience without use of goggles or headgear. It is a plug and play device that can be used with standard computers using off-the-shelf graphics card. The display set of features makes it uniquely suited for high-end users, includes high resolution and colour, large image depth, wide viewing zone which allows for multiple users and true 3D, meaning the user can look around the object by moving the head sideways. Setred also develops a 3D medical software platform especially suited for neurosurgery and diagnostic. www.setred.com

SINTEF

SINTEF is a multidisciplinary, non-profit research organization. SINTEF has established a cross-disciplinary integrated co-operation in welfare technology involving ICT, health-care services, ethnography, economic evaluations and interaction design, through several initiatives within ambient assisted living. www.sintef.no/velferdsteknologi

Skannex AS

Skannex develops Point-of-Care platforms for lab, doctor's office and home testing measurement. We develop easy to use, flexible, all-purpose software reader systems based on standard scanner and camera technology. Our latest product utilizes android smartphones as the processing unit. The SkanSmart is a fully integrated professional handheld instrument. In our latest project SkanEasy we utilizes android smartphones as the processing unit. Other projects are the SkanSmart; a fully integrated professional handheld instrument. The SkanSmart and the SkanEasy automatically stores all results. Results may be printed, e-mailed or downloaded to a computer. www.skannex.com

Hospitality AS



Hospital IT is an innovative IT company, developing solutions for different segments of the health sector: Patients, professionals, the home care industry and relatives. The company is segments in the health sector: Patients, professionals, the home care industry and relatives. We are currently involved in three major projects, aiming to increase the overall life quality of elderly: A2E2 and V2me (AAL projects) and Open Line (Innovation Norway). Hospital IT is developing its home care solutions based on 3D and avatar technology, creating a virtual coach to help and motivate the end users. In addition to its ongoing projects, Hospital IT also provides patient terminals and clinical information solutions for the health sector. www.hospitality.no

Korean IT-based Convergence Healthcare Technology

We will feature services and solutions under development from a big Korean consortium – the Korean IT Convergence Healthcare Technology.



There can be additional participants in the 'MIE Village of the future' that are not presented here. The final list of participants and their brief introduction can be found at <http://www.oslomedtech.no/Events/MIEVillageoftheFuture2011.aspx>



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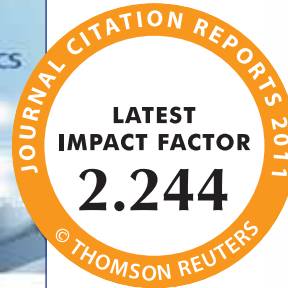
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