

Location

Ludwig-Maximilians-University Munich
Geschwister-Scholl-Platz 1
80539 Munich



The conference will be held in the historical main building (Hauptgebäude) of the Ludwig-Maximilians-University (LMU) in Munich which is part of the LMU's downtown campus and the architectural centerpiece. Primarily home to the social sciences and humanities, this world-famous building also houses the main university. The lecture halls in the main building have enough capacities to host conferences up to 2000 participants offering large halls for up to 10 parallel sessions. Technical equipment is excellent, traffic connections are perfect. Munich is one of the main touristic destinations in Germany. Hotel and traffic infrastructure is very convenient. The conference venue is easy to reach by public transportation; many hotels of different categories are in direct neighborhood. The town offers a large spectrum of museums, galleries, historic buildings and parks. Many internationally well known touristic sites are in close travel distance and can easily be reached by public transport: Alps, castle of Neuschwanstein, cities of Augsburg, Nuremberg, Salzburg and many more.

Organizer

German Society for Medical Informatics, Biometry and Epidemiology (GMDS)

Cooperating societies:

German Society for Epidemiology (DGEpi)

International Epidemiological Association (IEA-EEF)

European Federation for Medical Informatics Association (EFMI)

Congress Organization

INTERPLAN

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Scientific Chairs

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Contributions

Submissions of abstracts for presentations and posters

will be accepted from Monday, 14th of December 2015 to Sunday, 21st of February 2016.

Submissions for workshops and panels and tutorials

will be accepted until Sunday, 27th of March 2016.

Detailed descriptions about the submission types and the application will be available at the conference website:

www.hec2016.eu

Conference languages are English and German.

Registration

The registration system on www.hec2016.eu will be available starting from 14th of December 2015.

The early bird deadline for registration will end on Sunday, 3rd of July 2016.

A list with hotel suggestions, further information on social events and how to find us will be available on the website.

Young Researchers

We plan to especially attract young researchers and will organize special events, such as the Young Researcher Science-Slam, the Young Researcher informal Get-together and others dedicated to our young academics. See also our very attractive registration fees.

Travel grants are available for young researchers; see our website www.hec2016.eu for details.

Awards

Stefan-Weiland Prize (DGEpi)

Peter L Reichertz Young Scientist Prize (EFMI)

Rolf Hansen Memorial Award (EFMI)

Paul-Martini-Award (GMDS)

Young Researcher Science-Slam Prize

Award for young scientists (GMDS)

Award for best MI team (GMDS)

Awards for Best Presentations

Poster Awards



Joint conference

GMDS & DGEpi & IEA-EEF annual meeting,
Medical Informatics Europe – MIE 2016

HEC 2016

**Health – Exploring complexity:
An interdisciplinary systems approach**

28 August – 2 September 2016
Munich | Germany



www.hec2016.eu

A warm welcome, dear colleagues, ...

on behalf of the four cooperating societies.

We are happy to host this European event under the joint theme of health as a complex system. This is one conference joining the activities of four scientific disciplines: **Medical Informatics (MIE2016)**, **Medical Biometry**, **Bioinformatics**, **Epidemiology and Health Data Management**. It will serve as an important scientific forum for the exchange of new ideas and applications to strengthen health sciences on a national and international level.

The analysis of health as a complex system opens new perspectives on a challenging reality: filtering current hypotheses, resolving controversies, and tailoring interventions to the need of the individual within a health system environment.

Why do we meet in Munich? Recently, Munich developed to a centre for Life Sciences. It hosts two large universities, a strong federal research centre on health, a large biotech cluster and German headquarters of international pharmaceutical corporations. We trust that the conference will profit from this stimulating environment.

We meet in the historic building of the Ludwig-Maximilians University in the centre of Munich close to the English Garden and other highlights of our city. And of course, no trip to Munich would be complete without a stop at one of the city's many "Biergärten" to sample some of Bavaria's traditional fare. Visit our conference and spare a few days extra to discover the beauty of Bavaria, its history, the mountains, the lakes and the castles.

Let us reinforce the dialogue of disciplines in order to advance our understanding of health and to decrease burden of disease.

Last, but not least, in 2016 we celebrate the 40th anniversary of the European Federation of Medical Informatics with its MIE conferences. Also, a great opportunity to gather and to celebrate.

Ulrich Mansmann

Eva Grill

Topics and ideas

In complex systems components are interacting. In our joint endeavours for better health for all we need methods taking interaction into account. This is about interaction of people with their environment, of clinical trials with information systems, of smart homes with epidemiological research, of health data management with economics, of clinical research with systems biology and much more. This complexity is a challenge for all of the four communities:

Medical Biometry

Epidemiology

Medical Informatics (MIE 2016)

Bioinformatics and Health Data Management (HDM)

Emerging topics in the intersection of epidemiology, medical biometry, and medical informatics include the acquisition of data from wearable and ambient sensors, the management and analysis of such data locally and in the cloud, the development of crowdsourcing trial concepts for very large cohorts with millions of participants, including the use of smartphone sensor data, the Quantified Self movement, new intervention models for lifestyle change and prevention, the new role of participants and patients, ethical implications and data protection.

With this in mind we also want the more "classical" topics of Epidemiology, Medical Biometry, Health Data Management and Medical Informatics to be represented:

Epidemiology of communicable diseases, allergy, cancer, cardiovascular and metabolic disease, occupational epidemiology, genetic epidemiology, neurologic and mental health epidemiology, environmental epidemiology, life-course epidemiology, epidemiology of ageing, pharmacoepidemiology, health geography, social epidemiology, paediatric epidemiology, statistical methods in epidemiology

Trial designs for stratified medicine, health economic evaluation in clinical trials, dealing with heterogeneity in clinical trials and systematic reviews, meta-analysis of diagnostic accuracy studies, methods for network meta-analysis, statistical methods for health services research, Big Data techniques for clinical registries, dynamic prediction with observational data, statistical techniques for systems biology and systems medicine, bioinformatics and statistics for sequencing data, integrative analysis of high-dimensional molecular data

Global academic curricula for HDM, standards and guidelines, DRGs, data management in clinical trials, eHealth and intersectoral documentation, data mapping, HDM and networking

Knowledge representation and processing, medical ontologies, advanced analytics and Big Data, digital healthcare strategies, lifestyle apps supporting healthy living, mobile healthcare services, Internet of things customized for healthcare applications, multimodal interfaces in healthcare, ambient assisted living and wellbeing, modelling for the digital patient, clinical user interfaces, sustainable and integrated citizen-centred care, medical image and signal processing, health information and process management, hospital information systems and health telematics, medical informatics in health service research, policy, research IT infrastructures and EHR data reuse, genetic data and phenomics, bioinformatics

Local Organizing Committee

Ulrich Mansmann

Eva Grill

Alexander Horsch

Ursula Hübner

Hans-Ulrich Prokosch

Martin Müller

Konstantin Strauch

Manfred Wildner

Alfred Winter

Coordinating Scientific Programme Committee

Chairs

Ulrich Mansmann (Munich, Germany)

Eva Grill (Munich, Germany)

Medical Biometry

Ralf Bender (Cologne, Germany)

Harald Binder (Mainz, Germany)

Epidemiology

Gérard Krause (Braunschweig, Germany)

Elisabete Weiderpass (Stockholm, Sweden)

Medical Informatics

Simon de Lusignan (Surrey, United Kingdom)

Hans-Ulrich Prokosch (Erlangen, Germany)

Health Data Management

Markus Stein (Heidelberg, Germany)

Susanne Stolpe (Düsseldorf, Germany)

For topic specific Scientific Programme Committees see:

www.hec2016.eu