



In memoriam:

JANA ZVÁROVÁ (1943 - 2017)



**EFMI COUNCIL and IMIA GA MEMBER
IAHSI FOUNDING MEMBER**

Prof. RNDr. JANA ZVÁROVÁ , DrSc.

Founder of EuroMISE Mentor Association

FEFMI, FIAHSI

A DISTINGUISHED PERSONALITY OF MEDICAL INFORMATICS

George Mihalas

with support from

Marion Ball, Jan H van Bemmelen,
Arie Hasman and Bernd Blobel

1. Studies and Scientific Pursuit (i)

- 1965: MS Degree in mathematics from Charles University in Prague, Czechoslovakia, Faculty of Mathematics and Physics
 - *interest for mathematical statistics – prof. Jaroslav Hájek*
- 1967: Started PhD with Prof. Dr. Albert Perez, m. IFIP
 - *theory of information, mathematics in biomedicine*
- Postgraduate studies – Medical Faculty, Univ. Edinburgh
 - *medical data analysis and computing*
(Walter Lutz, Mary Fulton, Robin Prescott)

1. *Studies and Scientific Pursuit (ii)*

- 1969: return, Institute of Haematology & Blood Transfusion
 - *biocybernetics, computers in medical information processing (Igor Vajda, Arnošt Veselý, Radim Jiroušek, Marie Ditmarová, Blanka Reháková, Jan Benda)*
- 1972: First conference “*Decision processes in clinical medicine*” in Prague (*Albert Perez, Jan Nikl*); 1976 – *gr.dissolved*
- 1977: Joined 1st Faculty of Medicine, Charles University
- 1978: Initiated the medical informatics group of the Czech Society for Biomedical Engineering
- 1983: Participation at MEDINFO’83, Amsterdam
 - *support of Jan Roukens, IMIA president*

2. Prague Conference Series

- 1985: First IMIA Working Conference in Eastern Europe
“Medical Decision Making: Diagnostic Strategies and Expert Systems”
 - *support of François Grémy and Jan van Bemmel*
- 1978 – 1989: a series of Conferences in Prague on:
 - Medical Decision
 - Medical Informatics Education
 - *research on “use of methods from mathematical statistics and information theory to solve medical problems, e.g. in cardiology, gynecology, obstetrics, rheumatology, dentistry, epidemiology and public health”*
- Important role in Eastern-Western Europe scientific contacts

3. *European and National Projects (i)*

- 1993-95: **EuroMISE** - *European education in Medical Informatics, Statistics and Epidemiology*
 - *to promote multidisciplinary approach, focus on healthcare issues*
 - *teaching teachers and health professionals from Central and Eastern European countries*
 - *visits at universities participating in the project and lectures from:*
 - = *Jan H.van Bommel and Arie Hasman - The Netherlands*
 - = *Rolf Engelbrecht, Bernd Blobel, Hartmut Dickhaus, Norbert Victor and Reinhold Haux – Germany*
 - = *Bernard Richards - United Kingdom, Ioana Moisil - Romania*
 - *great personal support of many teachers from all Europe*
 - *students not only from Central & East Eur.: Belgium, Ireland, Turkey, UK*
 - *until 1999: ~150 participants received the EuroMISE courses diplomas at Aula Magna of Charles University*

3. *European and National Projects (ii)*

- 1994-96: **MUM** - *Managing Uncertainty in Medicine*
 - *to contribute to the emerging theory of managing uncertainty when both probabilities and logical approaches were applied*
 - *incorporate the methods into diagnostic knowledge-based systems*
 - *to gain practical experience in the field of medical data analysis*
 - *introducing software tools and developing decision support systems*
- 1998-2000: **TripleC** – *continuation of I4C Project*
(*Integration and Communication for the Continuity of Cardiac Care*)
 - *to design the ORCA (Open Record for Care) EHR in cardiology*
 - *first structured EHR in both Czech and Slovak languages*
 - *Minimum Data Model of a Cardiology Patient*
 - *formalizing clinical guidelines in cardiology and semantic interoperability*
 - *voice-recognition in EHR in dentistry (DentCross)*

3. *European and National Projects (iii)*

- 1998-2000: **MGT** - *Medical Guideline Technology*
 - *computerized tools providing patient-specific practice guidelines*
 - *combining general guidelines and specific medical circumstances*
- 2004-08: *within **The Information Society** program of the Czech Academy of Sciences*
 - *tools for providing shared health care continuity*
 - *remote access to information either as data or knowledge from medical records using HL7 standards*
 - *results validated in co-operation with Municipal Hospital in Čáslav*

4. Developing Institutional Frames (i)

- 1978: ***Medical informatics group*** of the Czech Society for Biomedical Engineering (and Medical Informatics)
- 1994: ***EuroMISE Center*** (director: Jana ZVÁROVÁ)
- 1997: Agreement on the ***doctoral degree*** study programs in biomedicine between Charles University and Czech Academy of Sciences
- 2001: ***Scientific Board of Biomedical Informatics*** – 1st Medical Faculty & EuroMISE Center (SBBI chair - Jana ZVÁROVÁ)

4. Developing Institutional Frames (ii)

- 2004: ***CBI - Center for Biomedical Informatics***
 - optimal set of genes for the diagnosis and prognosis of cardiovascular diseases, decision support systems in cardiology and dentistry, Ph.D. in biomedical informatics
 - excellent team, 80 highly qualified personnel
 - dissolved in 2011
- 2005 : ***EJBI European Journal of Biomedical Informatics***
 - editor-in-chief: Jana Zvárová
 - today official EFMI Journal
 - support of Bernd Blobel, Izet Masic, Mauro Giacomini

4. *Developing Institutional Frames (iii)*

- 2013: ***EFMI Special Topic Conference*** in Prague
“*Data and Knowledge for Medical Decision Support*”
 - IOS Press: Bernd Blobel, Arie Hasman, Jana Zvárová
 - keynote speakers: Marion Ball, Jan H van Bommel
 - panel on History of European Medical Informatics:
George Mihalas, Jana Zvárová, Casimir Kulikowski, publ. Izet Masic
- 2013: ***International Journal on Biomedicine and Healthcare***
 - editor-in-chief: Jana Zvárová
 - support: Arie Hasman
- 2014: ***EuroMISE Mentor Association*** chair: Jana Zvárová
- 2016: founding member of ***IAHSI*** – International Academy of Health Sciences Informatics

5. Recognition of professional prestige, titles & degrees, EFMI & IMIA positions and activities (i)

- Academic:
 - MSc. (1965), RNDr. (1970), Ph.D. (1978), Doc.Assoc. Prof. (1992)
 - DrSc. (1999), Full Professor (1999)
- National:
 - memb. Board Czech Soc. Biomed. Engineering and Medical Informatics
 - head of the Biomedical Informatics Section of the Society
 - memb. group electronic healthcare of Czech Med. Assoc. J.E. Purkyně
 - member of Czech Society for Cybernetics and Informatics
 - member of Czech Statistical Society

5. Recognition of professional prestige, titles & degrees, EFMI & IMIA positions and activities (ii)

- National (cont'd)
 - Medal of Charles University, Faculty of Science (2005)
 - Medal of Charles University 1st Faculty of Medicine (2008)
- Director of the EuroMISE Center (since 1994)
- Director of Center of Biomedical Informatics (2006-2011)
- President of EuroMISE Mentor Association (since 2014)

5. Recognition of professional prestige, titles & degrees, EFMI & IMIA positions and activities (iii)

International

- Representative of Czechoslovakia, then Czech Republic in EFMI and IMIA
- attended almost all MEDINFO's and MIE's since 1983
- organized several IMIA Working Conferences in Prague
- organized EFMI STC 2013
- editor in chief of EJBI and IJBH

5. Recognition of professional prestige, titles & degrees, EFMI & IMIA positions and activities (iv)

International

- Honorary Membership of Romanian Society of Medical Informatics (1997)
- Medal of Erasmus University Rotterdam Department of Medical Informatics (1998)
- Honorary Membership in the Foundation Grigore C. Moisil for Applied Informatics (1999)
- University medal of University for Health Informatics and Technology Tyrol (2004)

6. Personality of “JANA”

- *Jana was a tenacious person, following patiently her scientific goals.*
- *Jana was a school creator, raising educational activities at highest levels*
- *She was a conscientious and modest person, honest, perseverant, always ready to engage in voluntary activities within EFMI and IMIA, with good spirit of initiative, skilful leader, excellent organizer, respected by her colleagues for her competence and her outstanding merits.*

6. Personality of “JANA”

- *Jana always struggled for a good and close collaboration between the scientists*
- *“Not only was Jana a professional of the first order, she also was a devoted wife and mother having raised very successful children and being a role model for women in the field of Health Informatics internationally”.*



7. Jana Zvárová's Family & Friends





Jana Zvárová's Family & Friends (ii)



Snapshots with Jana Zvárová: Planning the Future...





Medical Decision Making

Diagnostic Strategies and Expert Systems

Proceedings of the IFIP-IMIA International Working Conference on Computer-Aided Medical Decision-Making, Prague, Czechoslovakia, 30 September - 4 October, 1985

edited by **J.H. Van Bommel**, Free University, Amsterdam, The Netherlands, **F. Grémy**, Centre Hospitalier et Universitaire, Montpellier, France and **J. Zvárová**, Charles University, Prague, Czechoslovakia

1985 xiv + 394 pages
 Price: US\$ 67.25 / Dfl. 168.00
 ISBN 0-444-87840-8

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Computers in Medicine 1986



North-Holland

A Division of Elsevier Science Publishers B.V.

With friends from “EFMI family”





... Studying, teaching and lecturing ...



...Attending Meetings: IMIA GA's. ...



... and EFMI CM's ...



...Sharing Ideas with Friends from “EFMI Family”...




... Enjoying being together ...











The screenshot shows the EuroMISE website. At the top left is the EuroMISE logo, which features a circle of stars and the text "EuroMISE" with "Mentor Association" below it. To the right of the logo are links for "Supporter", "Member", and "Čeština English". Below the logo is a photograph of a cityscape at night. A navigation bar contains the following links: NEWS, MEMBERSHIP, ARTICLES, JOURNAL, CONTACT. On the right side, there is a search box with the text "search" and a magnifying glass icon. Below the search box is a button that says "International Journal on Biomedicine and Healthcare".

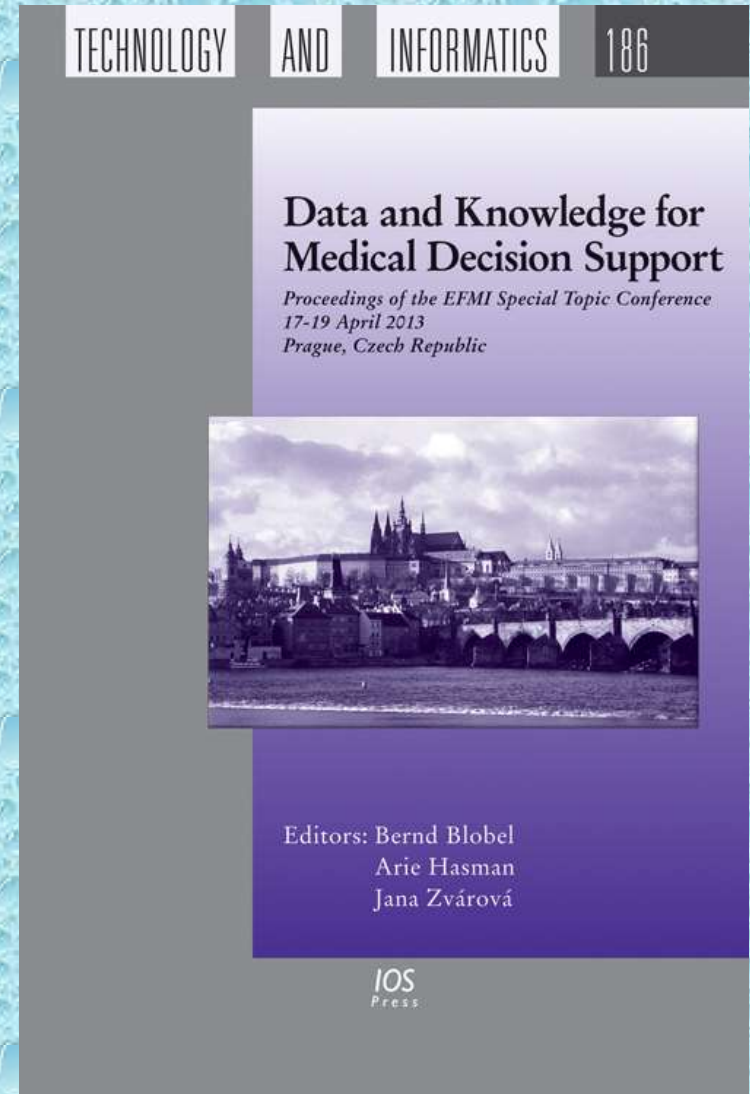
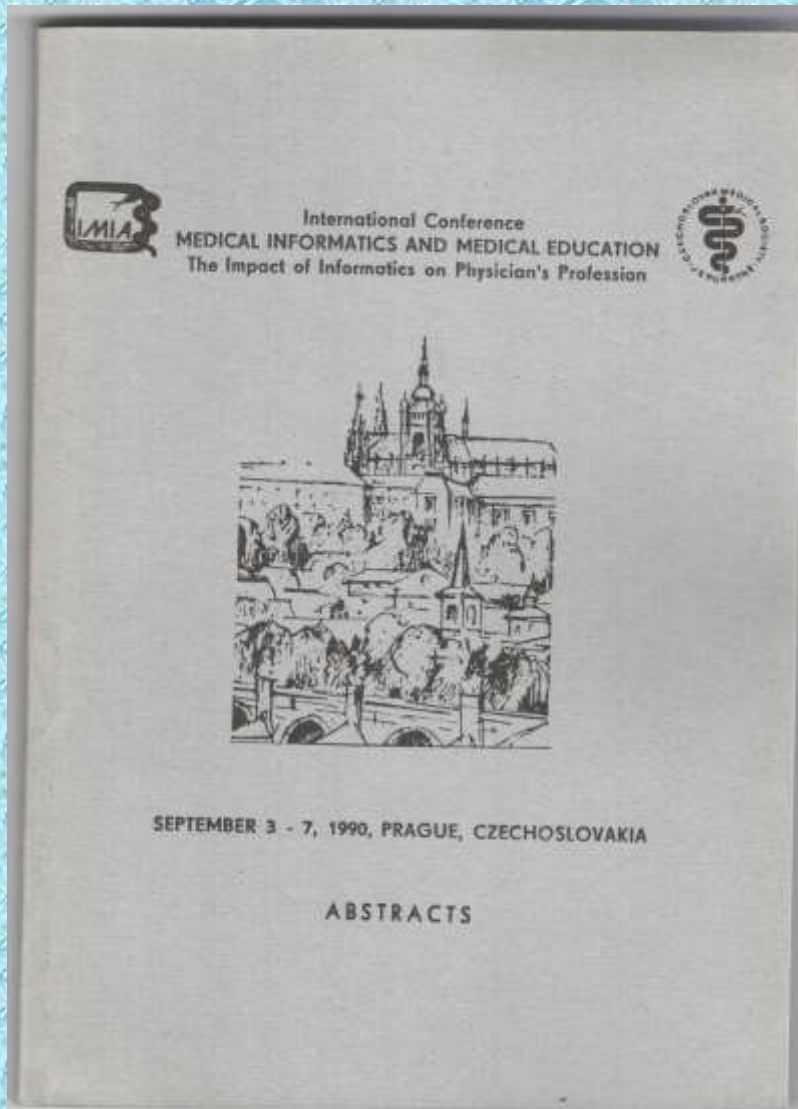




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European Journal for Biomedical Informatics
ISSN: 1801-5603

An Official Journal of:



Aims and Scope

European Journal for Biomedical Informatics is an online journal publishing submissions in English language, which is devoted towards the progress in biomedical science. The journal welcomes all types of research communications through its rational open access window to maximize the possibilities of global reach for each article. The frequency of issue release is bi-annual, and strictly supported by peer-review process. The primary aim of the journal is to make all the informations freely available irrespective of different socio-economic barriers, which further will help in the progress of science. Moreover, the journal intends to showcase all the timely research information on biomedical informatics and its related studies for the effective contribution in the field of biomedical methods and technologies.

Tweets by @ejbi_etern

The Use of Internet of Things in Healthcare in 2016 :
digitalmuse.com/the-use-of-int... via @digitalmuse

The Use of Internet ...
IoT is now pretty muc...
digitalmuse.com

IJBH
International Journal
on Biomedicine and Healthcare

the EuroMISE Mentor Association

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Main Topic

Women in Health Informatics

Editors

Pirkko Nykänen and Diane Whitehouse

www.ijbh.org

The Memorable Medical Informatics History Panel at STC 2013 Prague



EuroMISE page “Sad news”

www.euromise.net/en/

Sad news

Posted by [Anna Schlenker](#) in [Uncategorized](#) on [Sunday July 9th, 2017](#)

It is with great sadness that have to inform you of the passing away of the founder of EuroMISE Mentor Association prof. RNDr. Jana Zvárová, DrSc. on Wednesday 5 July 2017 in Prague.

Prof. Zvárová dedicated her professional and academic life to science in the fields of medical informatics and statistics. After graduating in mathematics in 1965, she found her way to the field of medical informatics and founded a dedicated section at the Czech Society of Biomedical Engineering and Medical Informatics.

The results of her work are presented in 10 monographs, more than 300 articles in peer reviewed journals, more than 600 citations and 3 patents. She was very active in the International Medical Informatics Association (IMIA) and the European Federation for Medical Informatics (EFMI); and known as an untiring organizer and presenter at numerous academic conferences including those of IMA and EFMI. Prior to creating EUROMise Mentor Association, she founded and served as Chief Editor of the European Journal of Biomedical Informatics (EJBI).



Yearbook: “Remembering Jana Zvárová”

Remembering Jana Zvárová (1943-2017)

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We were all shocked when hearing that Dr. Jana Zvárová had passed away on July 5th, 2017. She was one of the most active members within IMIA and EFMI and perhaps the very first person in our field from the former East-European countries.

Jana Zvárová was born in 1943 in Prague, Czechoslovakia. After graduating in Mathematics in 1965 at the Faculty of Mathematics and Physics of Charles University in Prague, she collaborated with several disciplines of Charles University (Medicine, and Mathematics and Physics). She founded the Medical Informatics section of the Czech Society of Biomedical Engineering and Medical Informatics in 1978. She was nominated in 1999 full professor at Charles University and received in the same year the highest Czech scientific degree of Doctor of Sciences at the Academy of Sciences of the Czech Republic.

Dr Zvárová systematically applied new theoretical knowledge in biomedicine,

Mentor Association focusing on international cooperation in student mentoring activities.

Perhaps, Jana Zvárová’s first visit to an international conference was in 1983, when she attended MEDINFO 83 in Amsterdam, IMIA’s tri-annual World Conference on Medical Informatics. Since that time, Jana organized many meetings and projects herself, in close collaboration with several colleagues from abroad. During the past years, we have learned to know many active members in IMIA and EFMI; all of them were active and energetic, but hardly any of them could be compared with Jana Zvárová, whose creativity and endeavors were far beyond those of all others.

Already in September 1985, Jana took the initiative to organize in Prague a Conference on Medical Decision Making, covering di-



projects and that they were accomplished only thanks to her perseverance.

Not only was Jana a professional of the first order, she also was a devoted wife and mother having raised very successful children and being a role model for women in the field of Health Informatics internationally. Shortly before her death she planned to

AIM: “In memoriam – prof. Jana Zvárová”

IN MEMORIAM: Prof Jana Zvarova, PhD (1943–2017)

Izet Masic

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On July 5th died academician professor Jana Zvarova, one of pioneers and one of most influential Medical informatics scientist and expert in Europe and in the world. Professor Jana Zvarova was born in Prague, Czechoslovakia. After graduating in mathematics in 1965 at the Faculty of Mathematics and Physics, Charles University in Prague she has been working with several faculties of Charles University in Prague. She completed external doctoral studies under the supervision of Prof. Dr. Albert Perez, member of IFIP. He brought her attention to the field of Medical informatics and opened the contacts with founders of IMIA. Jana Zvárová founded the Medical informatics section of the Czech Society of biomedical engineering and Medical informatics in the year 1978. The same year, she received Ph.D. scientific degree at Charles University in Prague. She passed the habilitation at Charles University in 1991 and she was nominated by the president of the Czech Republic Vaclav Havel as Full Professor at Charles University in Prague in 1999.



of Sciences CR (EuroMISE Center), and between 2006-2011 professor Jana Zvárová was the director of the *Center of Biomedical Informatics*. She was the representative of the Czech Republic to the Councils of International Medical Informatics Association (IMIA) and European Federation for Medical Informatics (EFMI). She had significant professional participation in national and international initiatives in biomedical informatics and statistics, especially

EFMI page “In memoriam Jana Zvárová”


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In memoriam Jana Zvárová

Created: 11 July 2017

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The results of her work are presented in 10 monographs, more than 300 articles in peer reviewed journals, more than 600 citations and 3 patents. She was very active in the International Medical Informatics Association (IMIA) and the European Federation for Medical Informatics (EFMI); and known as an untiring organizer and presenter at numerous academic conferences including those of IMA and EFMI. Prior to creating EUROMise Mentor Association, she founded and served as Chief Editor of the European Journal of Biomedical Informatics (EJBI).

In 1991 she was appointed Full Professor at Charles University in Prague by the president of the Czech Republic Václav Havel and in 1999 she achieved the highest Czech scientific degree of Doctor of Sciences at the Academy of Sciences of the Czech Republic. For results in science and education she has received numerous awards.



IMIA page “In memoriam Jana Zvárová”



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Remembering Jana Zvárová (1943-2017)



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Dr Zvárová systematically applied new theoretical knowledge in biomedicine, particularly in epidemiology and public health. Since 1994, she chaired the *European Center of Medical Informatics, Statistics, and Epidemiology (EuroMISE)* of Charles University and the Academy of Sciences. Between 2006 and 2011, she was the director of the *Center of Biomedical Informatics*. She was the representative of the Czech Republic in IMIA (the International Medical Informatics Association) and in EFMI (the European Federation for Medical Informatics). She was a member of editorial boards of several national and international journals. The results of her research are documented in 10 monographs and more than 300 articles in peer-reviewed journals.

IJBI: “To the memory of Prof Jana Zvárová”

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LIBH – Volume 5 (2017), Issue 2

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Editorial

To the memory of Professor Jana Zvárová



This Special Issue on Women in Health Informatics was initiated and planned with Professor Jana Zvárová. We three, Jana, Pirkko, and Diane, worked together in planning the issue, in inviting people to contribute, and in reviewing their submissions.

demiology. She was nominated as a full professor to Charles University, Prague in 1999, and she was a very active Czech representative in the European Federation for Medical Informatics (EFMI) and in the International Medical Informatics Association (IMIA). She was also a

JZMC 2018 “Jana Zvárová – a Distinguished Personality of Medical Informatics”

Opinion Article

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Jana Zvárová – a Distinguished Personality of Medical Informatics

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1 Introduction

The history of science has shown that the development of any field is the result of many researchers' efforts, some of whom put a specific footprint on certain important aspects in

Engineering, one of the societies of the Czech Association of Medical Societies of J.E.Purkyně.

In 1983, in the light of a slight political relaxation, with the support of Jan Roukens, Jana Zvárová managed to attend MEDINFO 83 in Amsterdam, IMIA's tri-annual



*Through her work, her life and her example,
 Jana Zvárová
 has earned a well-deserved place in the
 world pantheon of medical informatics.*



*We will keep alive
 her memory ...*