

MIE 2011 Classification of submissions in Categories, Themes and, Topics

A. Methodology (Qualitative and Quantitative)

A.1. Information and Knowledge Representation

- A.1.1. Terminologies, Vocabularies, Ontologies
- A.1.2. Process models, Information models, Data models
- A.1.3. Knowledge representations (incl. images, biosignals, video, audio)
- A.1.4. Visualization
- A.1.5. Other

A.2. Information and Knowledge Processing

- A.2.1. Information Storage and Retrieval
- A.2.2. Natural Language Processing
- A.2.3. Data Mining
- A.2.4. Speech Recognition
- A.2.5. Reasoning and Decision Theory
- A.2.6. Advanced Algorithms (incl. computational models)
- A.2.7. Software Engineering Methodology
- A.2.8. Human-Computer Interaction
- A.2.9. Computer Supported Cooperative Work
- A.2.10. Other

A.3. Empirical Research Methodologies

- A.3.1. Needs and Requirements Analyses (incl. Ethnographic Field Studies)
- A.3.2. Evaluation Studies (incl. Experiments, Social, Organisational and Economic Studies)
- A.3.3. Cognitive Studies (incl. Usability Studies)
- A.3.4. Economic Studies
- A.3.5. Other

B. Applications (Systems, Goals, Problems, Policies)

B.1. User-Centered in Networked Healthcare – Core Topics of MIE 2011

- B.1.1. Intra- and Inter-organizational Integration, Health IT Infrastructure
- B.1.2. Processes, Workflows, Planning, and Collaboration
- B.1.3. Usability and Cognitive Aspects of Health IT
- B.1.4. Supporting Interaction between Patient and Healthcare Provider
- B.1.5. Health Information and Knowledge for the Public
- B.1.6. Personal Health Records and Self-Care Systems
- B.1.7. Social Networking for Health
- B.1.8. Social Media for Health Informatics
- B.1.9. Pervasive Health, Mobile Health, mHealth
- B.1.10. Personalized Health (pHealth)

B.2. Healthcare service delivery.

- B.2.1. Electronic Health Records, Electronic Patient Records
- B.2.2. Computerized Order Entry / Electronic Prescription
- B.2.3. Computer-Aided Diagnosis Systems (image/biosignal-based)
- B.2.4. Computer-Assisted Medical Procedures (e.g. computer-assisted surgery, robotics)
- B.2.5. Clinical Decision Support Systems
- B.2.6. Knowledge Management Resources, Clinical Guidelines, Procedures
- B.2.7. Remote Decision Support
- B.2.8. Telemedicine
- B.2.9. Biosensors and Devices for eHealth Services

B.3. Policy, Financing and Stewardship

- B.3.1. Healthcare Policy Issues
- B.3.2. Economic Aspects of Health ICT
- B.3.3. System Implementation and Management
- B.3.4. Security and Privacy
- B.3.5. Patient Safety, Medical Errors, and Quality Assurance

B.4. Research and Education

- B.4.1. Enhancing Biological, Clinical and Epidemiological Research and Trials
- B.4.2. Biosensors and Devices for Medical and Epidemiological Research
- B.4.3. Supporting eHealth Research and Trials
- B.4.4. Bioinformatics
- B.4.5. Translational Research
- B.4.6. (Just-In-Time) Access to Electronic Evidence and Information
- B.4.7. Knowledge Fusion and Semantic Web
- B.4.8. Digital Repositories for Case-Based Reasoning, eLearning and Validation/Evaluation
- B.4.9. Education and Training of Students, Professionals and Citizens

B.5. Specific Topics

- B.5.1. Disease Management
- B.5.2. Disease Surveillance and Management of Outbreaks and Catastrophes
- B.5.3. Resource-Poor Settings and Digital Divide
- B.5.4. Pan-European Cross-Border Applications
- B.5.5. Public health
- B.5.6. Social care
- B.5.7. Free topic