

大会议程（22号）

大会主席：

杨智，教授，首都医科大学，中国医药信息学理事会副理事长

Catherine Chronaki, Secretary General HL7 Europe, Vice President EFMI
(Europe)

Day 2 Theme: Medical Imaging, Robotics and Standards

14:00-17:00, Early Session

14:00-14:30, Keynote3 – Orphanet: Taking the next step in the management of Rare Diseases

Ana Rath, Director Inserm U14 Orphanet, France (Europe)



- The Rare diseases (RDs) have emerged as a public health priority, and need a comprehensive public health approach in Europe
- Orphanet, the currently most comprehensive knowledge base on RD, is delivering a comprehensive, standardized, evidence-based, interoperable, versioned, computable and free nomenclature specific for RD

14:30-17:00, Session3: Findable Accessible Interoperable Reusable (FAIR) Health Data Sets - Health technology standards and interoperability

S3.1, HL7 in China

李敬东，HL7 中国技术指导委员会主席，MDRuby

Technology（中国）首席信息官



- Introduction of HL7 and HL7 China
- Data Interoperability and the needs of healthcare information standard
- HL7 China standard development、education and conformance testing
- The current standard development and standard testing work

S3.2, HL7 supports large-scale COVID-19 testing in the Netherlands

Robert Stegwee, Chair CEN TC251/ European Standards Institute (Europe)



- CoronIT system is the national solution for COVID-19 diagnostics of Nederland
- It could build upon all the work on lab information exchange
- Together with the dedicated group of pandemic-labs the testing capacity was sufficient to serve the needs of the population

S3.3, Using openEHR to implement the Guideline-based CDSS for Covid-19

吕旭东, 教授, 浙江大学生物医学工程系医学信息学教授



- Computer interpretable guidelines (CIG) can help the broad adoption of evidence-based diagnosis and treatment knowledge globally
- This study aims to develop a shareable CIG for COVID-19 and implement a Guideline-based CDSS using openEHR

S3.4, Translating FAIR principles to Health Care

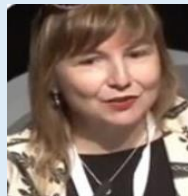
Oya Beyan, Researcher, Fraunhofer Institute for Applied Information Technology, RWTH Aachen University (Europe)



- FAIR principles provide guidelines for improving data reuse, specifically in a machine-actionable way
- The RDA FAIR Data Maturity WG introduced a model for guiding researchers for FAIR data transformation and explored how level of FAIRness of curated data sets in health care institutions can be improved
- In this talk, Oya will highlight health care specific challenges for FAIR data and explore potential solutions

S3.5, FAIR from a European Perspective

Eva Maria Mendez Rodriguez, (Europe)



- This talk is going to review the FAIR principles from the European perspective
- To reflect other particular circumstances affecting health data sharing and health data FAIRification, like the current rules (GDPR) or technological tradition

S3.6, Open Science Cloud Practice in CSTCloud

*Lili ZHANG, Computer Network Information Center, CAS,
Professor Li Jianhui, director for CSTCloud, Vice President CODATA (China)*

- E-infrastructure plays a vitally important role in facilitating the reuse of different research resources, and many facilities are developed to support such work
- The idea of developing a Global Open Science Cloud (GOSC) is proposed and designed
- This talk will introduce CSTCloud (Chinese Science & Technology Cloud) and her progress in federation cloud testbed

ePoster

Tools for the support of data workflows in Health Research to make them Findable Accessible, Interoperable and Reusable

Celia Alvarez, Andalusian Health Service, Spain (Europe)

Nordic Health Data Collaboration: Realising a Nordic hub for health data research and innovation

Louise Buch Rosenlund, Head of Intl. Development and Partnerships, Data Saves Lives / CPH Healthtech Cluster

18:00-21:00, Late Session

Co-Chairs:

王双翌, 副研究员, 中国科学院自动化研究所 (CASIA)

Catherine Chronaki, Secretary General HL7 Europe, Vice President EFMI (Europe)

18:00-18:30, Keynote4 — Innovation of 3D Medical Imaging, Processing and Visualization for Intelligent Minimally Invasive Diagnosis and Therapy

廖洪恩, 教授, 千人, 清华大学医学院生物医学工程系



- Novel image processing and multimodality image fusion methods in the field of quantitative and automatic analysis of lesions and anatomic structures
- Develop a naked-eye three-dimensional (3D) medical image visualization method called integral videography with a full parallax and high geometrical accuracy

18:30–21:00, Session4: Medical Imaging and Robotics of health and social care

S4.1, Emergency Information Systems

Professor Thomas M. Deserno, Peter L. Reichertz Institute for Medical Informatics of TU Braunschweig and Hannover Medical School, Brunswick, Germany (Europe)



- Introduce the Accident & emergency informatics (A&EI) and define the International Standard Accident Number (ISAN)
- show how the ISAN is used by a smart home to establish machine-to-machine communication

S4.2, Robotics Assisted in Spine Surgery: Practice and Trends

何达, 教授, 北京积水潭医院脊柱外科副主任医师



- Focus on the development and application of robot techniques in spine surgery and show a real-time navigation robotic system

S4.3, When your best co-worker is a Robot? I Have one!

Fredrik Hansson, Development leader at Södra Älvsborgs Sjukhus (SÄS) (Europe)



- Present five robots that work around the clock to support repetitive administrative work and use our previous knowledge to quickly use more robots to help us out in the Pandemic situation

S4.4, Applications of Robotics and AI in Surgery

王豫, 教授, 北京航空航天大学医疗器械研究所所长、医疗器械与康复辅具中关村开放实验室主任



- Orthopedic surgical robots in China, such as TINAVI Medical Technologies

S4.5, Social Robots for Independent Living

Assistant Professor Peter Ruijten, Social AI, Eindhoven University of Technology Associate Professor Raymond Cuijpers, Cognitive Robotics and Human-Robot Interaction at Eindhoven University of Technology, Netherlands (Europe)



- Discuss three themes that are central for social robots for independent living: navigation, social cues and social bonding

S4.6, Development of automatic ultrasound robots for diagnosis and procedure guidance

王双翌, 副研究员, 中国科学院自动化研究所(CASIA)



- Share the story of developing several intraoperative and extra-corporeal ultrasound robots to reform ultrasound acquisitions

ePoster

Guardian: Social robots in long term care (TBC)

Henk Herman Nap, Senior research, eHealth, Vilans, Visiting Senior Researcher, Human-Technology Interaction, Technical University of Eindhoven, The Netherlands (Europe)

Estimation of Coronary Artery Movement Using a Non-Rigid Registration with Global-Local Structure Preservation

Bu Xu, Ph.D. Candidate, Northeastern University, Shenyang, (China)

Estimation of Aortic Pressure Waveform Based on Multivariable Adaptive Transfer Function

Shuo Du, PhD candidate, college of medicine and biological information engineering, Northeastern University, Shenyang, (China)

Multi-viewpoint Optical Positioning Algorithm Based on Viewpoint Optimization

Can Ye, Biomedical Engineering Department, Capital Medical University

An algorithm for multi-viewpoints stitching of surgical field assisted by optical positioning technology

Qiaoling Yang, Biomedical Engineering Department, Capital Medical University

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大会交流群:



