# MIXHS’11 – Workshop Programme

## Keynote

**Keynote Address**

*Session Chair: Matt-Mouley Bouamrane (University of Glasgow, Scotland, U.K.)*

"Challenges of managing interoperability in regional healthcare organisations"

Dr. Paul Woolman, Enterprise Architect, Scottish Government e-Health

## Session 1

### Data Integration in Bio-Medical Information Systems

*Session Chair: A. Rosemary Tate, (University of Sussex, U.K.)*

**Managing Complexity in Pre-Operative Information Management Systems**

Matt-Mouley Bouamrane; Cui Tao; Frances S. Mair

**Model-Driven Dynamic Integration of Health Data**

Adel Taweel; Stuart Speedie; Gareth Tyson; Abdel-Rahman Hani Tawil; Kevin Peterson; Brendan Delaney

**Integrating Volumetric Biomedical Data in the Virtual Physiological Human**

Albert Burger; Bernard de Bono; Peter Hunter; Jesús Bisbal-Riera; Alejandro F. Frangi; Corné Hoogendoorn; Duncan Davidson; Xu Gu; Richard Baldock;
| Session 2 | Information Extraction in the Electronic Health Record  
Session Chair: Matt-Mouley Bouamrane  
(University of Glasgow, Scotland, U.K.) |
| --- | --- |
| Generality and Reuse in a Common Type System for Clinical Natural Language Processing  
Stephen T. Wu ; Vinod C. Kaggal ; Guergana K. Savova ; Hongfang Liu ; Dmitriy Dligach ; Jiaping Zheng ; Wendy W. Chapman Christopher G. Chute |
| Quality Scores for Electronic Health Records for Clinical Research  
Rosemary Tate ; Natalia Beloff ; Shivani Padmanabhan ; Timothy Williams |
| Automatically Estimating the Incidence of Symptoms Recorded in GP Free Text Notes  
Rob Koeling; Rosemary Tate ; John Carroll |
| A realism-based analysis of the OpenEHR Entrymodel,  
Andre Andrade ; Mauricio Almeida |

| Session 3 | Electronic Health Systems Interoperability and Integration  
Session Chair: Adel Taweel (King’s College London) |
| --- | --- |
| An overview of e-Health Integration in Scotland  
Matt-Mouley Bouamrane ; Frances S. Mair |
| Telehealth at scale: The need for interoperability and analytics  
Rajib Ghosh ; Juergen Heit ; Soundararajan Srinivasan |
| Standardizing radiation oncology data for future modelling of side effects after radiation therapy  
Caroline Olsson ; Graham Kemp |
| Session 4 | **Bio-Medical Knowledge Representation & Engineering**  
**Session Chair: Albert Burger (Heriot Watt University, Edinburgh)**  
| **Toward Semantic Web based Knowledge Representation and Extraction from Electronic Health Records**  
Cui Tao; Jyotishman Pathak; Susan Welch; Matt-Mouley Bouamrane; Stanley Huff; Christopher Chute  
| **Assessing Schizophrenia With A Highly Interoperable Architecture**  
Ando Emerencia; Lian Van Der Krieke; Nicolai Petkov; Marco Aiello  
| **An Ontology of Diabetes Self Management**  
David Sutton; Arantza Aldea; Clare Martin  
| **A Semantic Web Application Framework for Health Systems**  
Interoperability, Pedro Lopes; Jose Luis Oliveira  
| **DISCUSSION & CONCLUSION**  
|