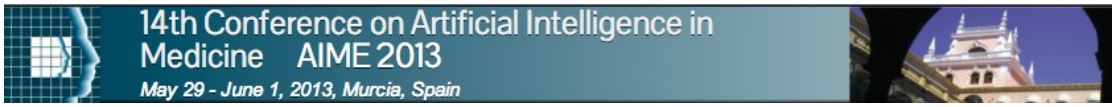

14th Conference on Artificial Intelligence in Medicine

AMIE 2013

	Wed.(29/5)	Thur.(29/5)	Frid.(29/5)	Sat.(29/5)
9:00		OPENING CEREMONY		WORKSHOP
9:15				
9:30		DR. ARONSKY INVITED TALK	PhD. HERMENS INVITED TALK	
9:45				
10:0	TUTORIALS			
10:1				
10:3		Session 1	Session 6	
10:4				
11:00				
11:15	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:45	TUTORIALS	Session 2	Session 7	WORKSHOP
12:0				
12:1				
12:3				
12:4				
13:0	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14:4	DOCTORAL CONSORT.	Session 3	Session 8	WORKSHOP
15:0				
15:1				
15:3		Session 4		
15:4				
16:0				
16:1		Coffee Break		
16:3	Coffee Break		Coffee Break	Coffee Break
16:4		Session 5		
17:0	DOCTORAL CONSORT.		Session 9	WORKSHOP
17:1				
17:3		BOARD MEETING		
17:4				
18:0				
18:1				
18:3		POSTERS + COCKTAIL	CLOSING CEREMONY	
18:4				
19:0				
19:1				
20:3		MURCIA TOUR and TAPA SESSION	GALA DINNER	
20:4				
21:0				
21:4				
22:0				

Conferencia Impartida por el Dr. Dominik Aronsky
Computer-based Decision Support in the Emergency Department

Conferencia impartida por el PhD Hermie Hermens
Towards Intelligent Telemedicine Services.

Session 1: Decision support, guidelines and protocols
From Decision to Shared-Decision: Introducing Patients' Preferences in Clinical Decision Analysis - A Case Study in Thromboembolic Risk Prevention
Model-Based Combination of Treatments for the Management of Comorbid Chronic Patients
Using Constraint Logic Programming to Implement Iterative Actions and Numerical Measures During Mitigation of Concurrently Applied Clinical Practice Guidelines
A multi-agent planning approach for the generation of personalized treatment plans of comorbid patients
Merging Disease-Specific Clinical Guidelines to Handle Comorbidities in a Clinical Decision Support Setting
Multiparty Argumentation Game for Consensual Expansion Applied to Evidence Based Medicine

Session 2: Semantic technology I
Rule-based Formalization of Eligibility Criteria for Clinical Trials
Characterizing Health-related Information Needs of Domain Experts
Comparison of clustering approaches through their application to pharmacovigilance terms
Trusting Intensive Care Unit (ICU) Medical Data: A Semantic Web Approach
Learning Formal Definitions for SNOMED CT from Text
Towards automatic patient recruitment: From Free-text eligibility criteria to queries

Session 3: Bioinformatics
Biomedical Knowledge Extraction using Fuzzy Differential Profiles and Semantic Ranking: Towards a New Functional Spectral Representation in Transcriptomics.
Knowledge based identification of multicomponent therapies
Enhancing Random Forests Performance in Microarray Data Classification
Copy-Number Alterations for tumor progression inference
Constraining protein docking with coevolution data for medical research

Session 4: Machine learning
Single and Multi-Label Prediction of Family Burden with Schizophrenic Patients
Predicting Adverse Drug Events by Analyzing Electronic Patient Records
Top-level MeSH Disease Categories Are Not Linearly Separable in Clinical Trial

Session 5: Probabilistic modelling and reasoning
Understanding the Co-occurrence of Diseases using Structure Learning
Online Diagnostic System based on Bayesian Networks
A Probabilistic Graphical Model for Tuning Cochlear Implants

Session 6: Image and signal processing
Semi-supervised projected clustering for classifying GABAergic interneurons
Cascaded Rank-based Classifiers for Detecting Clusters of Microcalcifications
Segmenting Cellular Regions of Neuroblastoma Tumor and Splitting Overlapping Cells using Shortest Paths between Convex Regions of Cell Contours
Classification of early PD subjects by using sensor-based measures of posture, gait, and transitions
Gradual False Positive Reduction at Detector Implantation

Session 7: Semantic technology II
Redundant Elements in SNOMED CT Concept Definitions
Medical Ontology Validation through Question Answering
Lexical characterization and analysis of the BioPortal ontologies
Ontology-based reengineering of the SNOMED CT context hierarchy
Using a cross-language approach to improve the mapping between biomedical terminologies

Session 8: Temporal data visualization and analysis
Clinical Time Series Prediction with a Hierarchical Dynamical System
Extraction, Analysis, and Visualization of Temporal Association Rules from Interval-Based Clinical Data
Learning to Identify Inappropriate Antimicrobial Prescriptions
An approach for mining care trajectories for chronic diseases
Similarity measuring between patient traces for clinical pathway analysis

Session 9: Natural language processing
Instantiating Interactive Narratives from Patient Education Documents
Added-value of automatic multilingual text analysis for epidemic surveillance
An Approach for Query-focused Text Summarisation for Evidence Based Medicine
Clustering of Medical Publications for Evidence Based Medicine Summarisation
Recognizing and classifying measurements in dictated, free-text radiology reports