KR-MED 2008

Representing and Sharing Knowledge Using SNOMED

May 31, 2008 – June 2, 2008 • Arizona Grand Resort • Phoenix, Arizona

---

The third edition of KR-MED is held in conjunction with the AMIA Spring Conference. This year's program reflects the international increase in interest in SNOMED CT. With the formation of the International Health Terminology Standards Development Organization (IHTSDO), which has nine charter members from three continents, SNOMED CT is truly becoming an international standard. This is reflected by the program, which highlights the advances in both knowledge representation and knowledge sharing using SNOMED CT.

Saturday, May 31, 2008

1:30 pm **Tutorials**

1. Terminological, Ontological and Knowledge Representation Aspects
   Stefan Schulz, Kent Spackman
   Room: Sedona C
2. Translating SNOMED CT
   Ulrich Andersen
   Room: Sedona D

3:00 pm **Coffee Break**
Room: Sedona Foyer

3:30 pm **Tutorials 1 and 2 continued**
Rooms: Sedona C and Sedona D

5:00 pm **Opening**
Room: Bougainvillea

5:30 pm **Invited Speech**
Building Medical Ontologies Using Description Logics: What Does it Buy Us?
Franz Baader, University of Dresden, Germany
Room: Bougainvillea

6:30 pm **Reception**
Room: Copperwood//Desert Willow

KR-MED 2008

Representing and Sharing Knowledge Using SNOMED

May 31, 2008 – June 2, 2008 • Arizona Grand Resort • Phoenix, Arizona

Sunday, June 1, 2008

8:30 am **Invited Speech**
Managing Clinical Terminology in a Post-classification Era
James R. Campbell, University of Nebraska
Room: Honeysuckle

9:30 am **Coffee Break**
Room: Honeysuckle

10:00 am **Scientific Session I (two parallel sessions)**
Session I A – Formalization and Classification
Debugging SNOMED CT Using Axiom Pinpointing in the Description Logic EL+
Boontawee Suntisrivaraporn and Franz Baader
Exploiting Fast Classification of SNOMED CT for Query and Integration of Health Data
Michael Lawley
Why Do it the Hard Way? The Case for an Expressive Description Logic for SNOMED
Alan Rector, Sebastian Brandt and Jay Kola
Room: Desert Willow

Session I B - Applications
Leveraging SNOMED CT with a General Purpose Terminology Server
Robert Weida, Jack Bowie, Robert McClure and David Sperzel
LinKBase® and SNOMED: Some Distinct Features and Impact on NLP
Maria van Gurp, Marnix Holvoet and Mariana Casella dos Santos
SNOMED CT: Browsing the Browsers
Jeremy Rogers and Olivier Bodenreider
Room: Honeysuckle

11:30 am **Poster Presentations (plenary)**
Room: Honeysuckle

12:30 pm **Lunch**
Room: Copperwood

1:30 pm **Poster Session**
Room: Goldwater

3:00 pm **Coffee Break**
Room: Honeysuckle

3:30 pm **Scientific Session II (two parallel sessions)**
Session II A – Mapping and comparing
Comparing SNOMED CT and the NCI Thesaurus through Semantic Web Technologies
Olivier Bodenreider
Exploratory Reverse Mapping of ICD-10-CA to SNOMED CT
Dennis Lee and Francis Lau
Room: Desert Willow

Session II B – SNOMED CT and Information Models
Interoperability of Data Models and Terminology Models : Issues with using the SNOMED CT terminology
Rahil Qamar Siddiqui, Jay Kola and Alan Rector
Essential SNOMED: Simplifying SNOMED-CT and Supporting Integration with Health Information Models

Peter MacIsaac, Donald Walker, Rachel Richesson, Heather Grain, Peter Elkin and Jon Patrick
Room: Honeysuckle

4:30 pm **Mini Break**

4:40 pm **Product Presentations by Sponsors (plenary)**
Room: Honeysuckle

6:30 pm **Conference Dinner**
Room: Copperwood

Monday, June 2, 2008

8:00 am **Scientific Session III (two parallel sessions)**
Session III A – Representation
Comparing the Effects of Two Semantic Terminology Models on Classification of Clinical Notes: A Study of Heart Murmur Findings
Guoqian Jiang and Christopher G. Chute
Creation and Usage of a "Micro theory" for Long Bone Fractures: An Experience Report
Howard Goldberg, Vipul Kashyap and Kent Spackman
Representing Clinical Information Using SNOMED Clinical Terms with Different Structural Information Models
David Markwell, Laura Sato and Edward Cheetham
Room: Honeysuckle

Session III B – Mapping and Subsetting
Strategies for Updating Terminology Mappings and Subsets
John Mapoles, Corey Smith, Jane Cook and Brian Levy
Using SNOMED CT as a Mediation Terminology: Mapping Issues, Lessons Learned, and Next Steps Toward Achieving Semantic Interoperability
Sarah Maulden, Patty Greim, Omar Bouhaddou, Pradnya Warnekar, Laura Megas, Fola Parrish and Michael Lincoln
Using SNOMED CT For Translational Genomics Data Integration
Joel Dudley, David P. Chen and Atul Butte
Room: Palm 3A

9:30 am **Coffee Break**
Room: Honeysuckle

10:00 am **Scientific Session IV (two parallel sessions)**
Session IV A –SNOMED CT and interface terminologies
A Methodology for Encoding Problem Lists with SNOMED CT in General Practice
Francis Lau, Raymond Simkus and Dennis Lee
Post-Coordination in the Mapping of Interface Terms of a Clinical Wound Documentation System to SNOMED CT
Martin Boeker, Stefan Schulz and Thilo Schuler

Using SNOMED CT Concepts for PAIRS
Madan Rao
Room: Honeysuckle

Session IV B – State of Affairs in SNOMED CT Member Countries (panel)
Room: Palm 3A

11:30 am **Invited Speech**
SNOMED CT Adoption: Lessons and Challenges
Howard S. Goldberg, Partners Healthcare
Room: Honeysuckle

12:30 pm **Closing Remarks**
Room: Honeysuckle

Poster Session: Sunday, June 1, 2008, 1:30 pm – 3:00 pm
Room: Goldwater

A Mapping between SNOMED-CT and the OXMIS Coding Scheme
Jeffery L. Painter

Achieving Consensus on a Common Vocabulary for Patient Health History and Exam Questions and Responses
A.W Forrey, Peter Elkin, Gretchen Murphy

Aligning the Top-Level of SNOMED-CT with Basic Formal Ontology
William R. Hogan

Defined Representation of the Clinical Care of the Newborn Infant by SNOMED CT
Andrew G. James, Kent A. Spackman

Evaluation of two French SNOMED Indexing Systems with a Parallel Corpus
Suzanne Pereira, Philippe Massari, Antoine Buemi, Badisse Dahamna, Elisabeth Serrot, Michel Joubert, Stéfan J. Darmoni

Indications Modeling and Coordination Challenges with SNOMED CT Implementation
Cheryl Bunch, Catherine Lai, Toni Morrison, Danielle Przychodzin, Raecine Chaney

Inductive Inference of a SNOMED CT Subset for Intensive Care Services
Jon Patrick, Yefeng Wang, Bahram Vazirnezhad, Alan Rector, Sebastian Garde, Jeremy Rogers, Robert Herkes, Angela Ryan

Inheritance of SNOMED CT Relations between Concepts by Two Health Terminologies (SNOMED International and ICD-10)
Tayeb Merabti, Suzanne Pereira, Thierry Lecroq, Michel Joubert, Stefan Darmoni

LexValueSets: A Framework for Context-Driven Value Sets Extraction
Jyotishman Pathak, Guoqian Jiang, Sridhar O. Dwarkanath, James D. Buntrock, Christopher G. Chute

Semantic Interoprability of Legacy eHealth Systems Using SNOMED
Mohammad H. Yarmand, Kamran Sartipi

SNOMED Information Accessible to the Danish Community
Ulrich Andersen, Bente Maegaard, Lina Henriksen, Anna Braasch, Lars Kayser

The Integration of SNOMED CT into the OpenMRS Electronic Medical Record System Framework
Thomas Meyer, Chris Seebregts, Aurona Gerber, Arina Britz, Laurette Pretorius, Ronell Alberts, Deshen Moodley

The Resource Impact of Supporting SNOMED CT Updates in a Clinical Decision Support System
Catherine Lai, Danielle Przychodzin, Cheryl Bunch, Toni Morrison, Raecine Chaney

Unification of Electronic Patient Data in a Commercial Health Information System through Multi-dimensional Semantic Annotation
Isabel Barth, Sven Tiffe, Evgueni Loukipoudis

Using SNOMED for Reference Hierarchies in the CPT Data Model
Marjorie Rallins, Eric Mays

Using SNOMED to Normalize and Aggregate Drug References in the SafetyWorks Observational Pharmacovigilance Project
Gary H. Merrill, Patrick B. Ryan, Jeffery L. Painter

Formal (Bio)Medical Knowledge Representation (KR-WG) appreciates the generous support of our sponsors.

Apelon

CareCom

HealthLanguage, Inc. (HLI)

IBM Zurich

IHTSDO

SNOMED