

i Semantics Special Track Introduction:

Semantics in Life Sciences
(September, 5, 2007, 10:00 – 18:00)

Session Chair: Andreas HOLZINGER

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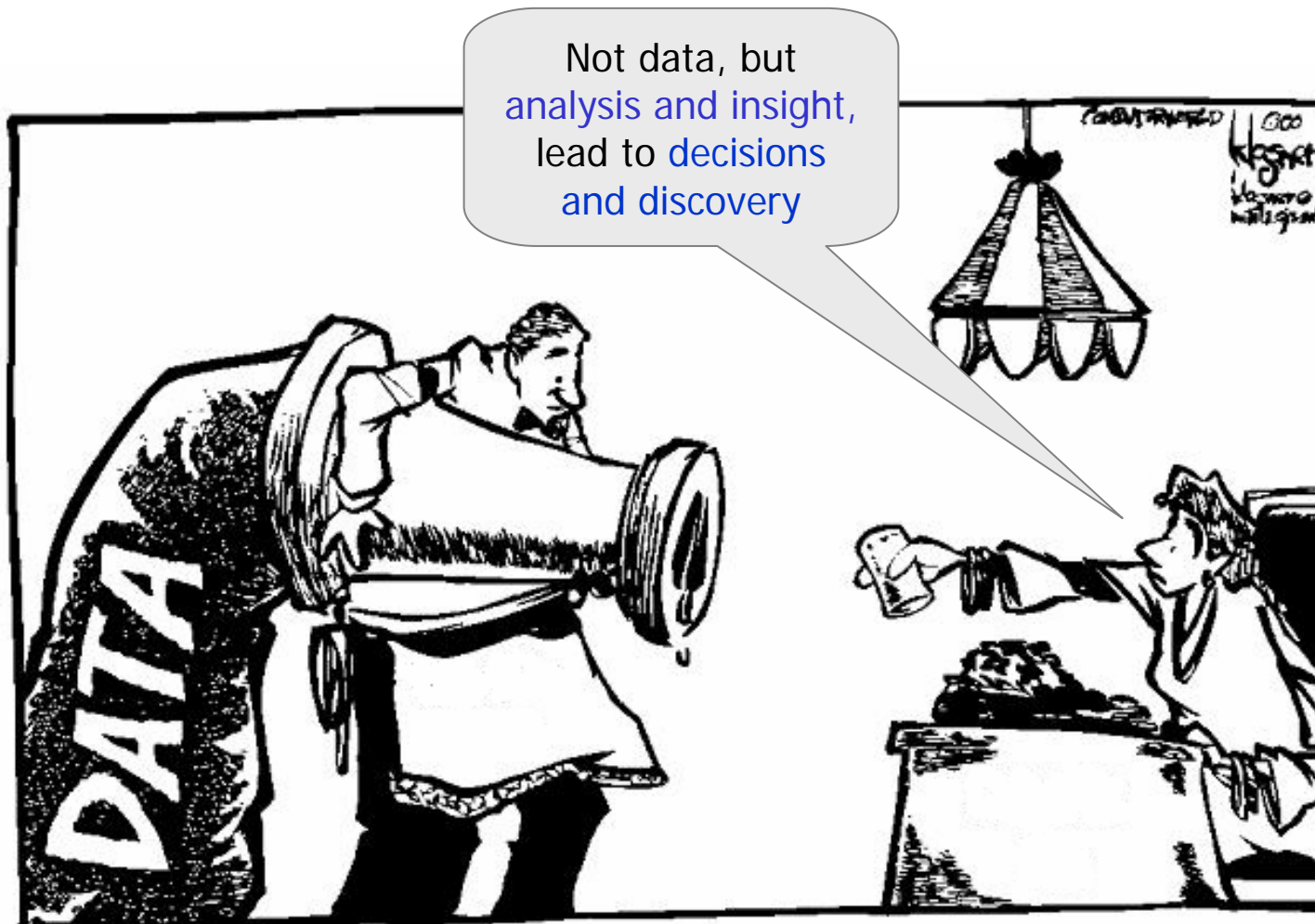




**Welcome and
Thank you for coming
to this Special Track!**

- "The future will be the study of the genes and proteins of organisms in the context of their informational pathways or networks." *Hood (2000)*
- "Biological research is going to move from being hypothesis driven to being data driven." *Robbins (2004)*
 - "We'll see over the next decade a complete transformation (of life science industry) to very database-intensive opposed to wet-lab intensive." *Goldfarb (2003)*
- Conclusion: Semantics is a key enabler for achieving those visions in which both information and processes plays critical roles.

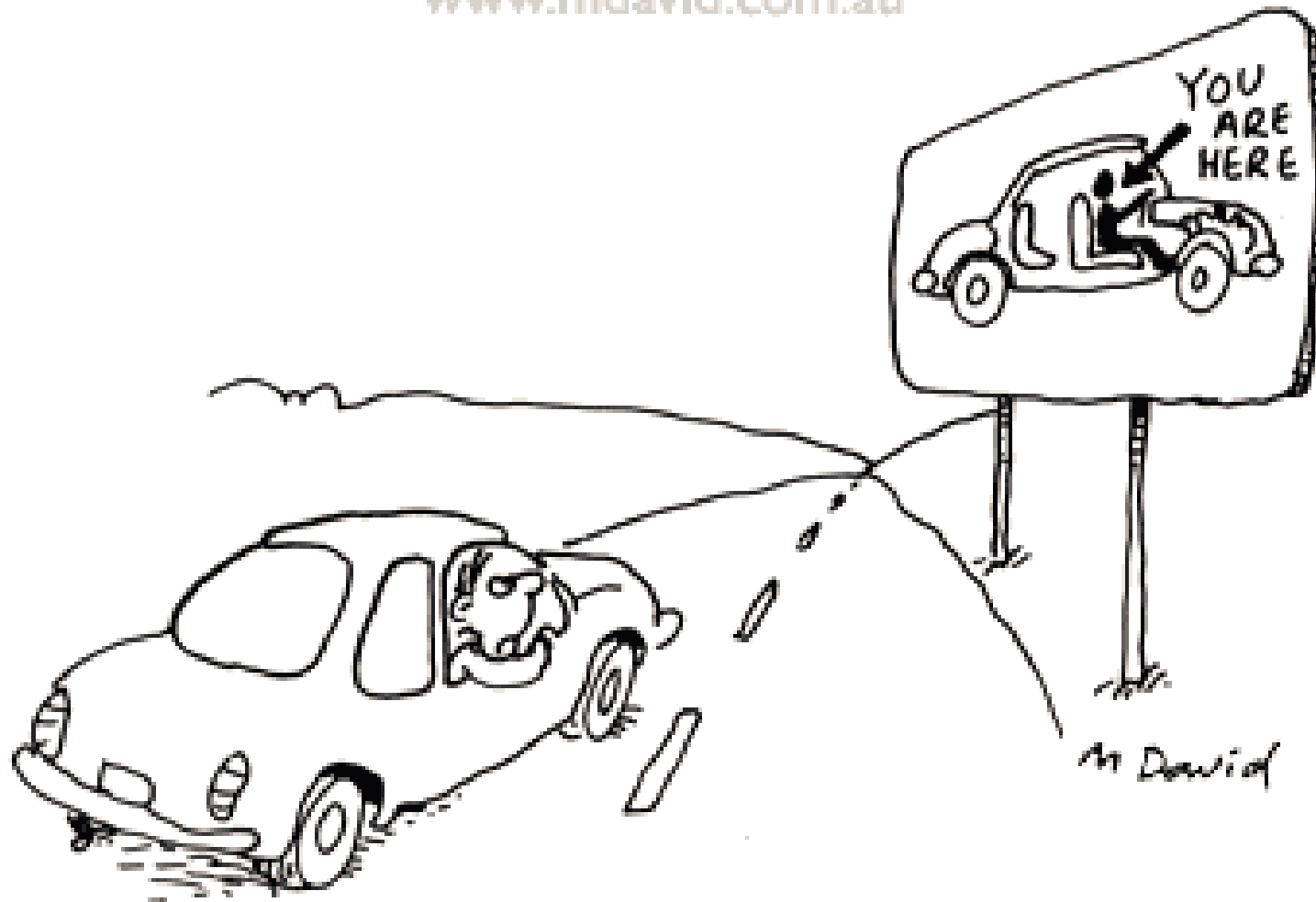
Are we focusing properly?



Sheth (2006)

Where are we?

www.mdavid.com.au



- 9 Presentations + Industrial Table Discussion
(Session 1: 10:30-12:00; 2: 13:30-15:30; 3: 16:30-18:00)
- Published In:
Tassilo Pellegrini & Sebastian Schaffert (Eds.)
Proceedings of
I-MEDIA '07 and I-SEMANTICS '07
International Conferences on New Media Technology and
Semantic Systems
Journal of Universal Computer Science
ISSN 0948-695x (Online: 0948-6968)
Editors in Chief:
Hermann Maurer, Christian Calude, Arto Salomaa, Klaus
Tochtermann

- *Semantic Information in Medical Information Systems - from Data and Information to Knowledge: Facing Information Overload*
Andreas Holzinger, Regina Geierhofer, Maximilian Errath
(Research Unit HCI4MED, Institute of medical Informatics, Statistics and Documentation, Medical University of Graz, Austria)
- *Creating an Annotated Set of Medical Reports to Evaluate Information Retrieval Techniques*
Regina Geierhofer, Andreas Holzinger
(Research Unit HCI4MED, Institute of medical Informatics, Statistics and Documentation, Medical University of Graz, Austria)
- *A Semantic Web Framework for the Life Sciences Based on Foundational Ontologies and Metadata Standards*
Matthias Samwald, Klaus-Peter Adlassnig
(Medical Expert and Knowledge-Based Systems, Medical University of Vienna, Austria)

- *Concepts for an Intelligent Information Portal in Pharmaceutical Research*

Alex Kohn, Francois Bry, Stefan Klostermann, Alexander Manta
(Institute of Informatics, University of Munich & Roche
Diagnostics GmbH, Penzberg, Germany)

- *Clinical Ontologies Interfacing the Real World*

Holger Stenzhorn, Stefan Schulz, Martin Boeker, Rüdiger Klar,
Barry Smith
(Department of Medical Informatics, University Medical Center
Freiburg & Institute for Formal Ontology and Medical
Information Science, Saarbrücken & Department of Philosophy,
University of Buffalo, State University of New York, USA)

- *Utilizing Text Mining Techniques to Analyze Medical Diagnoses*
Felix Mödritscher, Roland Tatzl, Regina Geierhofer, Andreas Holzinger
(Institute of Information Systems and Computer Media, Graz
University of Technology, IT Campus 02, University of Applied
Sciences Graz & Research Unit HCI4MED, Institute of medical
Informatics, Statistics and Documentation, Medical University of Graz,
Austria)
- *Connecting User Interfaces & User Impairments for Semantically opt.
Information Flow in Hospital Information Systems*
Shuaib Karim, A Min Tjoa
(Institute of Software Technology & Interactive Systems, Vienna
University of Technology, Austria)

- *Facilitating Knowledge Management in a Distributed HealthCare System*

Bo Hu, David Dupplaw, Srinandan Dasmahapatra, Paul Lewis,
Nigel Shadbolt

(Department of Electronics and Computer Science, University of
Southampton, United Kingdom)

- *StemNet: An Evolving Service for Knowledge Networking in the Life Sciences*

Udo Hahn, Joachim Wermter, David S. DeLuca, Rainer Blasczyk,
Michael Poprat, Asad Bajwa, Peter A. Horn

(Jena University Language and Information Engineering (JULIE)
Lab & Department of Transfusion Medicine, Hannover Medical
School & Clarity AG, Germany)

- Michael R. Alvers,
Transinsight GmbH, Dresden
- Stefan Sauermann,
Technikum Wien
- Werner Merlingen,
Siemens Österreich
- Alexander Leiningen-Westerburg,
Siemens Österreich

iSemantics needs you





Let us together make Software & Systems usable and accessible for all

Thank you!

