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Otwarte Seminarium badawczo-rozwojowe EIS

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sala 429 budynek C2 AGH

Automating Divergent and Dialectical Thinking on Twitter

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Abstrakt: Creative thinkers are often credited with a talent for divergent production, that is, an ability to fluently generate a diversity of novel and imaginative solutions to a given problem. I will focus here on the mechanics of divergent categorization, the production of diverse points of view for a given topic. In contrast to a convergent computational resource such as WordNet, which is designed to provide the narrow consensus view on the categorization of a great many lexical concepts, a divergent categorization system will produce a broad swathe of nuanced categories for many familiar topics, ranging from the highly conventional to the eccentrically unconventional. This divergent categorization system, which acquires is diversity of viewpoints from the Web, is modeled as a Web service named Thesaurus Rex that provides its divergent perspectives to client applications on demand. In turn, Rex is just one of several Creative Web Services that contribute to an intelligent metaphor-generating client system named @MetaphorMagnet, which autonomously crafts its own figurative perspectives on the world for distribution via Twitter. I will explore here how @MetaphorMagnet takes advantage of divergence to frame competing points of view as an insightful contest of ideas on Twitter.

Biogram: Tony Veale is a senior lecturer in the department of Computer Science at University College Dublin (UCD), Ireland. He has been a researcher in the areas of Computational Linguistics, Cognitive Science, Cognitive Linguistics and Artificial Intelligence since 1988, both in industry and in academia. He obtained a B.Sc (hons) in Computer Science from University College Cork (UCC) in 1988, and an M.Sc in Computer Science in 1990, before joining Hitachi Dublin Laboratory in 1990. He received his Ph.D in Computer Science from Trinity College, Dublin in 1996. He has divided his career between academia and industry. In the latter, he has developed text-understanding and machine translation systems for Hitachi (in particular, the translation of English into American Sign language, ASL), as well as natural-language-processing tools for the CYC project in Cycorp at Austin, Texas, and patented web-based question-answering technology for Intelliseek (Cincinnati, Ohio) and Coreintellect (Dallas, Texas), where he held the position of Chief Scientist. During his tenure on the CYC project in Cycorp inc. he developed a model of analogical reasoning for CYC and contributed to the DARPA-funded High-Performance-Knowledge-Bases (HPKB) and Rapid-Knowledge-Formation (RKF) projects. He was, from 2002 -- 2007, the academic coordinator for UCD's unique international degree programme in Software Engineering, which UCD delivers in Shanghai at Fudan university; he continues to deliver courses on this degree. He is the author of Exploding The Creativity Myth: The Computational Foundations of Linguistic Creativity (Bloomsbury Academic, 2012) and a founder member of the international Association for Computational Creativity (ACC). He organized the ACC's annual conference, The International Conference on Computational Creativity (ICCC) in UCD in May 2012.

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