

Nyberg, Eric; Mitamura, Teruko; Baker, Kathryn; Svoboda, David; Peterson, Brian; Williams, Jennifer

Deriving semantic knowledge from descriptive texts using an MT system. (English)

[Zbl 1016.68548](#)

Richardson, Stephen D. (ed.), Machine translation: from research to real users. 5th conference of the Association for Machine Translation in the Americas, AMTA 2002, Tiburon, CA, USA, October 8-12, 2002. Proceedings. Berlin: Springer. Lect. Notes Comput. Sci. 2499, 145-154 (2002).

Summary: This paper describes the results of a feasibility study which focused on deriving semantic networks from descriptive texts using controlled language. The KANT system was used to analyze input paragraphs, producing sentence-level interlingua representations. The interlinguas were merged to construct a paragraph-level representation, which was used to create a semantic network in Conceptual Graph (CG) format. The interlinguas are also translated (using the KANTOO generator) into OWL statements for entry into the Ontology Works electrical power factbase. The system was extended to allow simple querying in natural language.

For the entire collection see [[Zbl 0998.68638](#)].

MSC:

[68U99](#) Computing methodologies and applications

[68T50](#) Natural language processing

Software:

[KANTOO](#); [KANT/KASH](#)

Full Text: [Link](#)