



Handbook of Natural Language Processing and Machine Translation: DARPA Global Autonomous Language Exploitation

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This comprehensive handbook, written by leading experts in the field, details the groundbreaking research conducted under the breakthrough GALE program--The Global Autonomous Language Exploitation within the Defense Advanced Research Projects Agency (DARPA), while placing it in the context of previous research in the fields of natural language and signal processing, artificial intelligence and machine translation.

The most fundamental contrast between GALE and its predecessor programs was its holistic integration of previously separate or sequential processes. In earlier language research programs, each of the individual processes was performed separately and sequentially: speech recognition, language recognition, transcription, translation, and content summarization. The GALE program employed a distinctly new approach by executing these processes simultaneously. Speech and language recognition algorithms now aid translation and transcription processes and vice versa. This combination of previously distinct processes has produced significant research and performance breakthroughs and has fundamentally changed the natural language processing and machine translation fields.

This comprehensive handbook provides an exhaustive exploration into these latest technologies in natural language, speech and signal processing, and machine translation, providing researchers, practitioners and students with an authoritative reference on the topic.

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Handbook of Natural Language Processing and Machine Translation: DARPA Global Autonomous Language Exploitation From Brand: Springer New York Bibliography

- Sales Rank: #4003872 in Books
- Brand: Brand: Springer New York
- Published on: 2011-03-08
- Original language: English
- Number of items: 1
- Dimensions: 11.02" h x 2.00" w x 8.50" l, 5.45 pounds
- Binding: Hardcover
- 936 pages

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Editorial Review

Review

From the reviews:

“The book presents the very interesting and useful results of the work developed under the Global Autonomous Language Exploitation (GALE) program of the Defense Advanced Research Projects Agency (DARPA). ... Although more work is still to be done for achieving full language comprehension, the currently obtained results are already very impressive.” (Ruxandra Stoean, Zentralblatt MATH, Vol. 1230, 2012)

“It provides a detailed snapshot of the Defense Advanced Research Projects Agency’s (DARPA’s) five-year Global Autonomous Language Exploitation (GALE) project at the end of its third year. ... The innovative idea of GALE is to have the analytic processes involved in translation apply concurrently rather than sequentially, thus creating a community of experts that can interact with each other if ambiguities or uncertainties arise. ... The different write-ups are very engaging, and each subsection concludes with concise summaries. ... this book delivers true breakthroughs.” (Klaus K. Obermeier, ACM Computing Reviews, December, 2011)

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None

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