



An Introduction to GRAEL - Grammars and Evolution: An Agent-Based Evolutionary Computing Approach to Memory-Based Syntactic Parsing of Natural Language

Guy De Pauw

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This book investigates memory-based syntactic parsing of natural language, using an agent-based, evolutionary computing approach. The proposed technique, dubbed GRAEL (GRAMMAR EvoLution), offers a general purpose method for processing syntactically annotated corpora of natural language. It attempts to improve grammars by grounding the evolutionary optimization of syntactic structures in agent-based communication attempts. Using the same architecture, but different information sources, GRAEL can be shown to successfully handle a diverse range of grammar engineering tasks, such as grammar optimization (redistributing the probability mass of a corpus-induced grammar) and grammar rule discovery (automatically adding useful new rules to an existing grammar). This book also describes how GRAEL can be used to induce grammars for natural language from scratch (grammar induction) and offers insights into the origins of syntactic patterns in human language.

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