

## **SeMap – Mapping Dependency Relationships into Semantic Frame Relationships**

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### **Abstract**

*We describe the refactoring process of the RelEx2Frame component of OpenCog AGI Framework, a method for expanding concept variables used in RelEx and automatic generation of a common sense knowledge base specifically with relation to concept relationships. The well-known Drools rule engine is used instead of hand-coded rules; an asynchronous concurrent architecture and an indexing mechanism are designed to gain performance of re-factored RelEx2Frame. WordNet aided supervised learning mechanism is applied to expand concept variables. Association mining is used on semantic frames acquired through processing an instance of Wikipedia in order to generate a common sense knowledge base.*