



Crack the Neural Code

Provider of Biologically Inspired Intelligence

The engineers of semantic system ag have developed a first generation computer chip enabled to "think" like a biologic brain. For the first time in computing it is possible to run complex thought and analyzing processes in a computer chip and thereby to get results equivalent to those obtained manually by a human.

The experts and scientist of chip and processor design worldwide state it clearly: The current chip technology needs an evolution step. But it has to be a real evolutionary step and not just incrementally adding more cores. These enhanced and new data handling concepts are required for developing real intelligent systems in the future. Ontologies, taxonomies, semantic and semiotic concepts will only break through, if we first solve the problem of neural data processing in its core.

Crack the Neural Code

Logic computing, neural concepts, fuzzy logic, holosemantic meshworks, etc. require more flexibility and primarily intelligent data handling.

Crack the neural code means we have to understand how and why neural cells function and react in the biological brain. If we understand this, we are can build the base for biologically inspired intelligent systems.

ai-one™ (SDK)

The engineers of semantic system ag have laid the foundation for building biologically inspired computing by developing a neural data handling environment which can be implemented in standard computers as SDK.

semantic system ag provides the neural environment where ontologies, taxonomies, associative or semantic applications can operate and thus acquire further functionalities.

Semiotic Data Handling

The new chip technology facilitates data storing and data processing in a holosemantic environment. It means any kind of logic can be processed in a neural meshwork. Furthermore, it can recognize intrinsic information patterns in any kind of data. It is enabled to recognize semiotic relevancy patterns, based on the syntax, semantic and pragmatic in the data.

ai-one™ recognizes information patterns and concepts in any data and is able to relate and process them. The system comes to a decision autonomously or with a set of rules; is has the ability to extrapolate missing information and accomplish predictions, associations, comparisons, evaluations and analyses. ai-one™ is a chip, that facilitates the development of intelligent systems. As it were, ai-one™ is the core, with which intelligent computers and can be developed.

The Thought Process

The thought process is not an instant or single reaction. Moreover, it is the product of a rapid multiple stimulation of the brain. The end result is the point at which no change in the product (the computational conclusion) is derived even after running the thought process repeatedly. Of course, the whole thought process takes place extremely fast and without manual (user) influence. We call this autonomic intelligence.

"Autonomic intelligence" has the ability to adapt to the data given and offers functionality based on the intrinsic information pattern (concept pattern) discovered inside the data itself."

Not only is it possible, that the systems reacts to inquiries, but the system itself can be motivator and initiator and make INQUIRIES itself due to the clever self-organizing algorithm. Now it is possible for the computer to evaluate new answers and decide autonomously, if it is necessary to make further inquiries.

Due to the new technology computers can autonomously and very fast find the relevant information in large amounts of data and arrive to correct decisions based on its findings. For example such systems can be deployed in biometrics for analyzing complex patterns and images. In data processing, theses systems can automatically recognize the semantic relevance in text, allocate the appropriate processes and reach qualified decisions. The technology of semantic systems ag enables the computer to learn to speak and to communicate with the humans in natural language.

This Is Just The Beginning

The foundation is laid for building genuinely intelligent systems, but it not enough. An intelligent communication between the user and the system requires ontology and taxonomy models. The answers of the system need to be matched with ontology or taxonomy models. And although the substructure itself is language independent, the menus and dialogues have to be presented in the language of the user.

3rd Party Vendors Are Invited to Use Our SDK

We invite you to license the new technology as the foundation of your models. Solve the limitations of current DBMS and data processing and enhance your own technology with additional functions. Optimize your semantic process by using biologically inspired intelligence in your system.