



ai-one™

## Biologically Inspired Intelligence

### A human being is more than only his brain!

The brain is crucial in the human body. But we know, there are other elements and processes that are also very important, like the lymphoid system, the heart, chemical effects etc. However, the human is not only a body; his thoughts, beliefs, religion make him a human. ai-one™ does not compete with these important elements.

*We got inspired by nature for developing new technology. Biologically inspired means; that we take some of the (technical) brain functions, but not the feelings, emotions, nor the chemical or sociological processes, and incorporate them into intelligent computer systems.*

### ai-one™ is and shall never be a human!

The main goal of our research was to emulate the ability of the brain's complex pattern recognition function, as realistically as possible for recreating the same ability in a computing system. Based on the understanding of the functions of the elements and pathways in the neocortex the software now has the capability to process similar complex analyses and problems as the human brain.

### ai-one™ is smarter than former concepts!

Compared to former concepts, ai-one™ solved the challenge of "over learning". That is, in traditional neuronal networks, a system loses or reduces the ability to generalize beyond the fitting data. ai-one™ unites the advantages of the neural and formal computing. It recognizes patterns, concepts, understands boolean logic and stores the data. Furthermore, it also solved the challenge of resources and speed. ai-one™ can be clustered which allows the handling of very large amounts of data.

### Training and learning of ai-one™

ai-one™, similar to any other biological system, has to learn and be trained. For ai-one™ to converse with a user, it has to learn basic knowledge, common sense, even goals. From this point on, it is not about the technology anymore, it is about giving the ai-one™ the right information so that it can build the knowledge required for fulfilling any assigned tasks. But, its training is easier than with humans, ai-one can be trained by computers and automatic feeding. Furthermore, ai-one can replicate and deliver everything it learned to the next ai-one™ generation.