

## AI Software that Creates new Inventions

**Keynote: Dr. Val Tsourikov**, Predizo LLC, Chief AI (Artificial Intelligence) Architect, TRIZ Master, [val@truemachina.com](mailto:val@truemachina.com) [www.truemachina.com](http://www.truemachina.com), Belarus, Minsk



Creative AI software:

- ✓ generates novel ideas and new inventions automatically
- ✓ uses discoveries, materials, and designs immediately after publications to create revolutionary inventions
- ✓ dramatically multiplies creative productivity of tech teams, yet very easy in use, no training required

The exponential increase of intellectual power of Artificial Intelligence opens a unique opportunity – to build a Creative AI system which uses newly published technical and scientific knowledge to generate novel ideas and inventions in continuous mode.

We call this software True Machina™ because unlike other machines, which automate rather simple operations, this software is capable of finding ideas of new inventions, i.e., it automates the most difficult and the most essential human operation – creativity.

### Author Biography:

During his entire professional career, Dr. Val Tsourikov has been focusing on automation of creativity by developing unique A.I. engines and knowledge bases for different domains. He received a master degree in computer science at Minsk University of Informatics. As a postdoc visitor, Val studied advanced A.I. methods at the Imperial College of Science and Technology in London. Dr. Tsourikov founded A.I. The laboratory at Minsk University of Informatics in 1987. In his Ph.D. thesis, Val proposed novel A.I. system Pulsar, which was able to generate novel ideas in technical areas.

This system became a foundation of Val's first company, Invention Machine Laboratory, founded by Val and a group of his former students in Minsk in 1989. The company grew rapidly, and in 1992 Val decided to move his operations to Boston where he registered Invention Machine Corporation (IMC), and he served as the CEO and CTO till 2001. Several A.I. software systems were developed and implemented by leading technology companies in the world, including Motorola, Intel, Xerox, General Electric, Boeing, NASA, P&G, Unilever, SAAB, Honda, BMW, Ferrari, and Samsung. A multimillion-dollar contract was signed with Mitsubishi Research Institute to adapt A.I. systems to Japanese companies. First versions of IM-software used the knowledge bases of TRIZ and Functional Analysis. In 2000 IMC launched semantic engine as a pure A.I. tool that can create a semantic network of any text and to help users to find creative solutions in any domain.

In 2001, Val co-authored several U.S. and international patents on creativity automation and semantic intelligence. His innovative ideas were featured by the New York Times, Wall Street Journal, and Business Week. In 1998, Fortune Magazine named him "Hero of U.S. Manufacturing" (FORTUNE Magazine, May 25, 1998).

# Creative A.I. Software

Val Tsourikov, PhD  
Chief AI architect, True Machina project  
TRIZCON 2019, keynote talk  
Purdue University, West Lafayette, IN, May 22, 2019  
[val@truemachina.com](mailto:val@truemachina.com)



Click here to see his presentation:

<https://www.youtube.com/watch?v=7iats3VehCw> Val Tsouikov TRIZCON2019 Presentation