



Keynote Speech

Function-Oriented Search (FOS) in the AI Era: Redefining Innovation Across Industries

Speaker Name,

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Speaker Biography:

Dr. Oleg Feygenson was elected as the president of the International TRIZ Official Association (MATRIZ Official) in September 2022.

Since 2014, Dr. Feygenson is a Principal Engineer at Manufacturing Core Technology Team, Global Technology Research of Samsung Electronics.

Prior to Samsung Electronics, Dr. Feygenson worked for the world largest TRIZ consulting company GEN3 Partners, Inc. As a Senior Principal and Chief Researcher at GEN3 Partners he managed dozens of successful innovation projects for world-class companies such as General Electric, Doosan Infracore, Unilever, Owens-Illinois and others.

Abstract/Outline

In an age where artificial intelligence (AI) is revolutionizing innovation, Function-Oriented Search (FOS) remains a powerful tool for discovering breakthrough solutions. By focusing on functions, FOS enables cross-domain technology transfer – allowing solutions from one field to transform another.

AI amplifies the power of FOS by rapidly analyzing vast technical databases, patents, and scientific literature to uncover unconventional solutions. Machine learning models can identify hidden functional patterns, predict optimal solutions, and automate the search for technologies that solve actual problems. This synergy between AI and FOS accelerates innovation, reduces R&D cycles, and enhances problem-solving efficiency.

By integrating AI with FOS, we unlock unprecedented opportunities to solve complex challenges, foster disruptive innovation, and drive sustainable technological progress. In this keynote, we will explore how AI-driven FOS is reshaping industries