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## Systematic and knowledge-based invention in science and industry - 2; TRIZ, IDM-TRIZ and STEPS software

**Ali Taheri**  
Exaura Co., USA

The theory of inventive problem-solving – Russian translation of the acronym TRIZ – is known as one of the approaches that more likely steer R&D teams toward achieving creative results. In this occasion, I will provide a snapshot of this theory, and then the research results of INSA-Strasbourg that led to the development of a methodology, namely "Inventive Design Method based on TRIZ" (IDM-TRIZ). This also includes the introduction of STEPS software that has been provided with a methodological support to operate IDM-TRIZ.

### Biography

Ali Taheri completed his PhD in Industrial Engineering at the University of Strasbourg in 2015. He holds Master's degrees in Systems Engineering and Integrated Design Process – from Grenoble Institute of Technology – and an advanced studies' Master's in Innovative Design including Inventive Problem-Solving from the INSA of Strasbourg. His research focuses on the inventive efficiency of R&D teams and on technology road-mapping. His published work deals with the metrics of inventive performance, helping R&D managers to monitor and enhance innovation projects. After nearly a decade of experience in academic and executive programs aimed at improving the chain of production from idea generation to manufacturing, since November 2015, he settled in the United States and founded Exaura Company in order to assist design engineers and SMEs in reducing the risks of new product development.

[ali.taheri@insa-strasbourg.fr](mailto:ali.taheri@insa-strasbourg.fr)

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