

Innovation Logic: Benefits of a TRIZ-like mind in AI Using Text Analysis of Patent Literature

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Abstract. This paper describes a TRIZ-like innovation methodology; Innovation Logic. The three steps of the method are WISH; what are the desired values, SHOP: where can areas be identified for tech transfer and CREATE: variation of properties for better function. The paper demonstrates the benefit of using innovation logic within the application of AI and text mining in the worldwide patent database. A strong 'Rosetta stone' effect is the translation of functions into verbs, properties into adjectives and context into nouns. The paper furthermore discusses context relating mechanisms and special text patterns that facilitate the application of Innovation Logic in patent literature. The tool used for the implementation of Innovation Logic into the patent database is Patent Inspiration, selected for its unique liberty in conduction advanced text analysis.

Keywords: Innovation Logic, Artificial Intelligence (AI), Text Patterns, Patent Research, TRIZ, Inspiration, Artificial Creativity, Patent Inspiration.