

Natural Language Processing for Design and Innovation: State of the Art, Emerging Directions, and Open Challenges

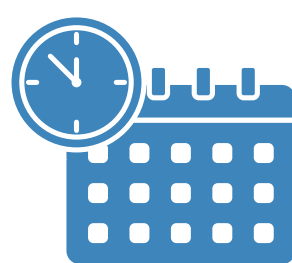


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Filippo Chiarello is an Associate Professor in Innovation and Design at the School of Engineering of the University of Pisa, Italy. His research focuses on natural language processing, text mining, artificial intelligence for innovation management, technology intelligence, and the use of data-driven methods to support design and innovation processes. He is also Director of the DETAILLs Lab.

This talk reviews the state of the art in Natural Language Processing (NLP) for design and innovation, focusing on how language technologies support idea generation, knowledge extraction, technology intelligence, trend analysis, and decision-making in innovation processes. It also discusses where the field is heading, especially in light of large language models. It highlights current limitations and open challenges, including reliability, evaluation, bias, explainability, and integration into real design and innovation workflows.



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