IIT-ROPAR

MMTTP FDP - Capacity Building Programme in Artificial Intelligence - A Faculty Voyage Into AI April 1st, 2025

Final Project

LITERATURE MAPPING

📚 Overview

- **Total Papers Analyzed:** 50
- **Core Themes Identified:**
  - **Design** and **Thinking** are the most prominent, suggesting strong alignment with the "Design Thinking" framework.
  - **Human-centered** elements (e.g. *human*, *creativity*) feature frequently, reinforcing the user-focused nature of design thinking.
  - Traditional management themes like **process**, **risk**, **system**, and **innovation** are also well-represented.

These patterns suggest that the literature spans across **innovation management**, **risk mitigation**, and **human-system integration**, with a focus on **decision-making processes** enhanced through **design thinking principles**.

Now I'll create a **visual map** to show how these themes cluster or interconnect.

Here's the **visual map** of the literature themes:

- Nodes represent **key concepts** (like *design*, *thinking*, *risk*, etc.).
- Edges show **co-occurrence** of keywords in the same paper — the **thicker** the line, the more frequently the pair appears together.

This network reveals:

- **"Design"** is strongly connected to **"thinking"**, **"human"**, and **"process"**, highlighting a focus on human-centered, structured innovation.
- Clusters suggest **risk management**, **system integration**, and **creative problem-solving** as emerging subthemes in design thinking applied to management.

SUMMARY

The reviewed literature spans 50 scholarly articles that collectively offer rich insights into how **Design Thinking** principles are being integrated into various dimensions of **management decision-making**. A frequent and dominant theme across the corpus is the emphasis on

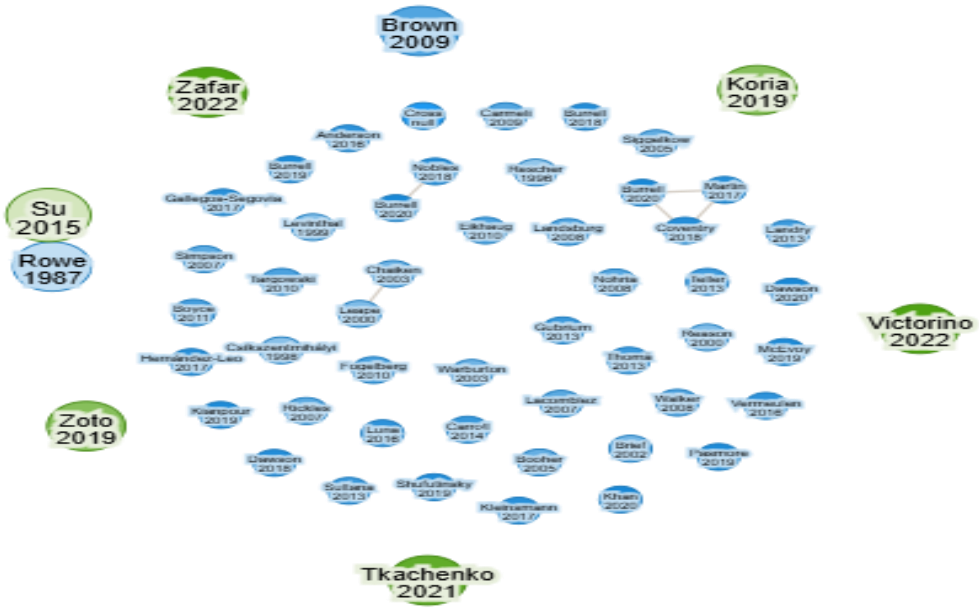
"design" and **"thinking"**, both of which appear prominently, underscoring the centrality of creative and structured problem-solving frameworks in modern managerial practices. These terms often co-occur with **"human"**, reflecting a consistent orientation toward **human-centered design approaches**, which prioritize empathy, user needs, and participatory ideation in shaping decisions.

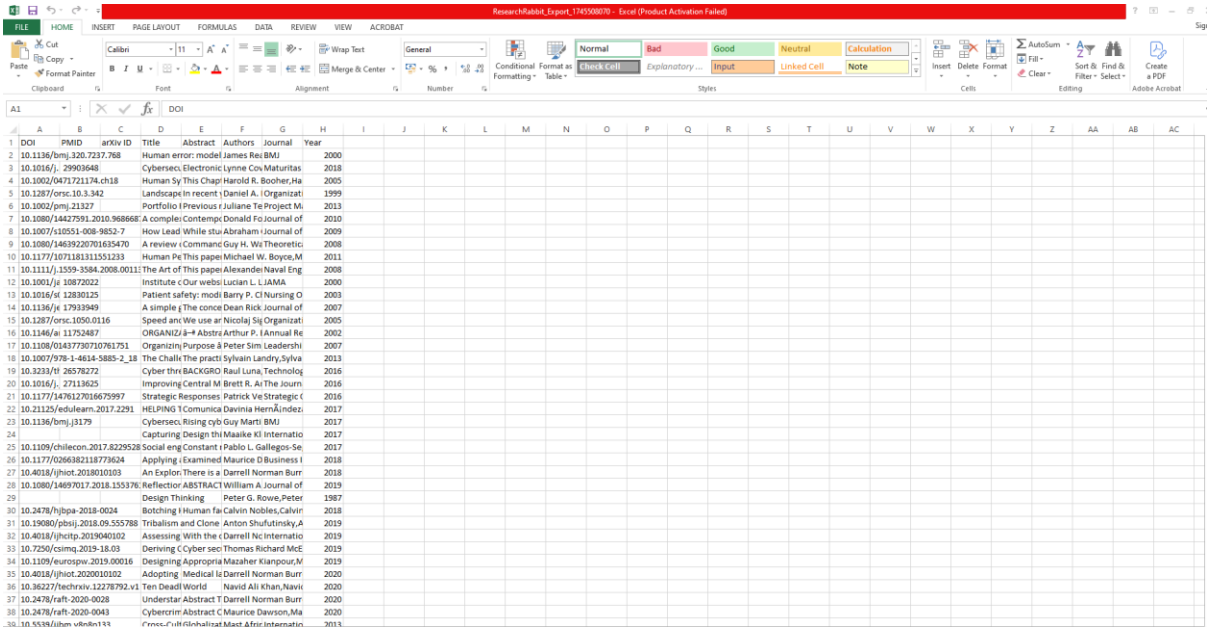
The term **"management"** itself appears with considerable frequency, suggesting that design thinking is not viewed as peripheral but rather as a **core strategic tool** across managerial domains. The abstracts and titles reveal that design thinking is being applied to **systemic challenges**, with frequent mentions of **"process"**, **"system"**, and **"integration"**. This implies that scholars are not just treating design thinking as a method for generating ideas, but as a **framework for integrating innovation into organizational systems** and decision-making pipelines.

Furthermore, the keywords **"innovation"**, **"creativity"**, and **"problem"** reflect how design thinking is leveraged to foster novel solutions in the face of uncertainty, change, and complexity. Interestingly, **"risk"** also emerges as a significant keyword, indicating a growing interest in how design thinking can be used not only to spur innovation but also to manage **strategic and operational risks**—a concern that is highly relevant in today's volatile business environments.

The **visual thematic map** constructed from the analysis shows strong interconnections between the major keywords. "Design" is at the center of the network, tightly linked to "thinking", "process", and "human", which highlights how closely these ideas are tied in scholarly discourse. Clusters in the visual also suggest that research is branching into specific sub-themes such as **human-systems integration**, **risk-aware design**, and **creative decision modeling**. These themes represent a **multidisciplinary fusion** of concepts from design, engineering, behavioral science, and strategic management.

Overall, the literature reveals a mature and evolving body of work that positions design thinking as a **transformational approach to management**, particularly valuable for navigating complex, ambiguous, and fast-changing environments. It encourages organizations to move away from linear decision-making models toward **iterative, user-driven, and experiment-based approaches** that align more closely with contemporary business needs.





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10.1136/bmj.320.7237.768			Human error: model	James Rea	BMJ		2000
10.1016/j.	29903648		Cybersec	Electronic	Lynne Cov	Maturitas	2018
10.1002/047172174.ch18			Human Sy	This Chap	Harold R. Booher,Ha		2005
10.1287/orsc.10.3.342			Landscape in recent		Daniel A.	Organizati	1999
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10.1080/14427591.2010.968668			A comple	Contempc	Donald Fo	Journal of	2010
10.1007/s10551-008-9852-7			How Lead	While stu	Abraham	Journal of	2009
10.1080/14639220701635470			A review	Command	Guy H. We	Theoretici	2008
10.1177/1071181311551233			Human Pe	This paper	Michael W. Boyce,M		2011
10.1111/j.1559-3584.2008.00113			The Art of	This paper	Alexander	Naval Eng	2008
10.1001/je	10872022		Institute c	Our websi	Lucian L. L	JAMA	2000
10.1016/st	12830125		Patient safety: model		Barry P. Cl	Nursing O	2003
10.1136/je	17933949		A simple g	The conce	Dean Rick	Journal of	2007
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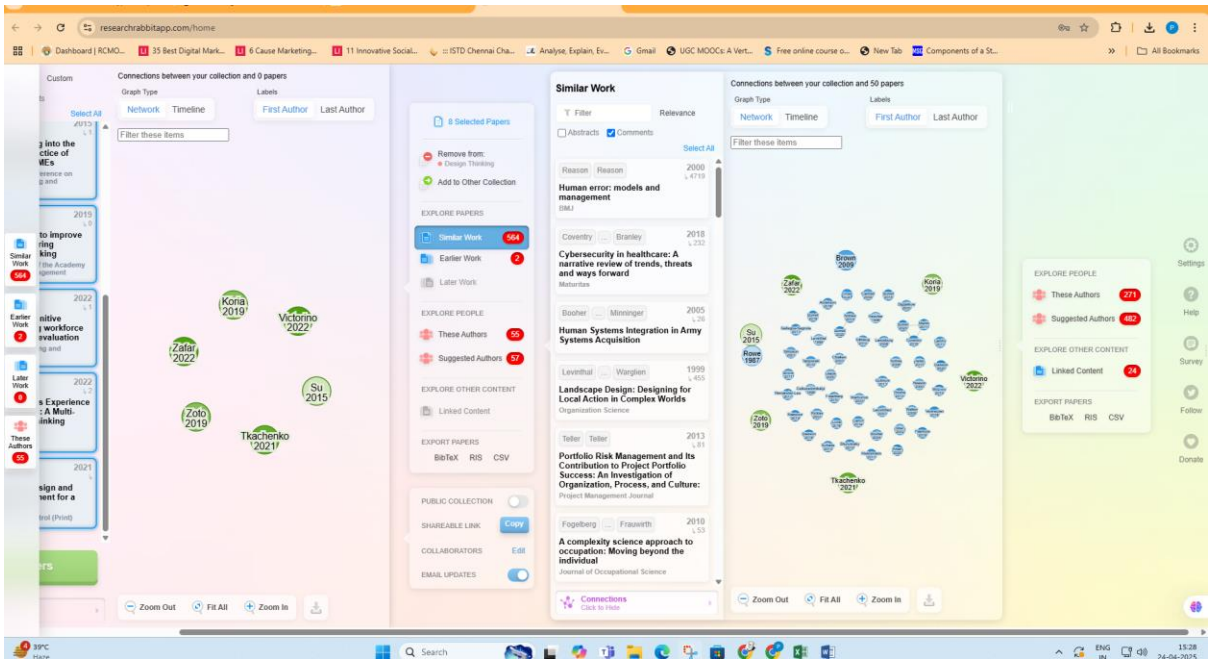
10.1108/01437730710761751			Organizin	Purpose â	Peter Sim	Leadershi	2007
10.1007/978-1-4614-5885-2_18			The Chall	The practi	Sylvain	Landry,Sylva	2013
10.3233/th	26578272		Cyber thr	BACKGRO	Raul Luna,	Technolog	2016
10.1016/j.	27113625		Improving	Central M	Brett R. Ar	The Journ	2016
10.1177/1476127016675997			Strategic Responses		Patrick Ve	Strategic C	2016
10.21125/edulearn.2017.2291			HELPING T	Comunica	Davinia	HernÃndez	2017
10.1136/bmj.j3179			Cybersec	Rising cyb	Guy Marti	BMJ	2017
			Capturing	Design thi	Maaike Kl	Internatio	2017
10.1109/chilecon.2017.8229528			Social eng	Constant t	Pablo L. Gallegos-Se		2017
10.1177/0266382118773624			Applying	Examined	Maurice D	Business I	2018
10.4018/ijhiot.2018010103			An Explor	There is a	Darrell Norman Burr		2018
10.1080/14697017.2018.155376			Reflection	ABSTRACT	William A	Journal of	2019
			Design Thinking		Peter G. Rowe,Peter		1987
10.2478/hjbpa-2018-0024			Botching	Human fa	Calvin Nobles,Calvir		2018
10.19080/pbsij.2018.09.555788			Tribalism and Clone		Anton Shufutinsky,A		2019
10.4018/ijhcitp.2019040102			Assessing	With the c	Darrell Nc	Internatio	2019
10.7250/csimq.2019-18.03			Deriving C	Cyber sec	Thomas Richard McE		2019
10.1109/eurospw.2019.00016			Designing	Appropria	Mazaher Kianpour,M		2019
10.4018/ijhiot.2020010102			Adopting	Medical la	Darrell Norman Burr		2020
10.36227/techrxiv.12278792.v1			Ten Deadl	World	Navid Ali Khan,Navic		2020
10.2478/raft-2020-0028			Understar	Abstract T	Darrell Norman Burr		2020
10.2478/raft-2020-0043			Cybercrim	Abstract C	Maurice Dawson,Ma		2020
10.5539/ijbm.v8n8p133			Cross-Cult	Globalizat	Mast Afric	Internatio	2013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