Intelligent Social Network Interventions



Assist humans in project communications via **AI-Bolstered Social Network** Interventions



Research Goal:

This research aims to augment human cognition and the functioning of multi-team systems via immediate and machine/deep learning enabled social network interventions to help individuals develop the skills needed for future of work and facilitate short and long-term economic, social, and environmental benefits.

Study Objectives:

As independent researchers, to:

- Observe team interactions in complex project teams. 1.
- Examine the dynamics of social networks in inter-2. organizational AEC project delivery.
- Develop intelligent social network interventions 3. using artificial intelligence(AI).
- Measure social, economic, and environmental 4. impacts.

Information exchange pattern across AEC

Research Team

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teams

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What's accomplished so far?



Our on-going research built the foundation in manually developing social network interventions for complex AEC project teams.

What's next?



Using **artificial intelligence** we are going to automate data collection, extraction and development of social networks and interventions.



Using **deep learning** we will translate lessons learned from one project to another even within different domains (student teams vs authentic AEC project teams).



We will develop a system that **continuously learns and** assists humans in a timely manner during projects to optimize communication networks project outcomes.

Who will benefit from this study?



Participating organizations can utilize this **adaptable and ground-breaking system** in optimizing project outcomes in the long term and be the industry leaders with this innovation.



We expect positive:

- short term economic, environmental, and societal impacts
- long-term impacts on individuals that are sensitized in project teams that utilize this system. Impacts will be quantified by this research.

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