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## Enhancing Construction Project Management through Program-of-Thought Models

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### ABSTRACT

In the pursuit of advancing construction project management, this paper explores the integration of program-of-thought models, aiming to address the multifaceted challenges inherent in this field. The construction industry faces persistent issues such as budget overruns, schedule delays, and quality compromises, which are often exacerbated by complex interdependencies and uncertainties. Traditional project management methodologies frequently fall short in efficiently navigating these complexities. Program-of-thought models, characterized by their ability to simulate human-like reasoning and decision-making processes, present a promising avenue for enhancing the strategic and operational facets of construction management.

This study delves into the theoretical underpinnings of program-of-thought models, elucidating their potential to revolutionize project planning, execution, and control. By leveraging these models, project managers can anticipate potential pitfalls and optimize resource allocation, thereby fostering more resilient and adaptive project plans. The models' predictive capabilities, rooted in advanced algorithms and machine learning techniques, enable proactive identification of risk factors and facilitate the development of robust mitigation strategies.

Empirical evidence is drawn from a series of case studies, wherein program-of-thought models were employed in diverse construction projects, ranging from residential buildings to large-scale infrastructure developments. The findings highlight significant improvements in project performance metrics, including cost efficiency, timeline adherence, and stakeholder satisfaction. Furthermore, the integration of these models fosters enhanced collaboration among project stakeholders by providing a cohesive and transparent framework for decision-making.

In conclusion, the adoption of program-of-thought models in construction project management holds the potential to transform industry practices by providing innovative solutions to longstanding challenges. This paper contributes to the discourse by offering a comprehensive analysis of the models' applications and benefits, encouraging further research and development in this promising intersection of artificial intelligence and construction management.

# 1. Introduction

In recent years, the construction industry has experienced significant transformations driven by advancements in technology and innovative management practices. Construction project management, a critical component in the successful execution of projects, is continually evolving to integrate these innovations. The advent of program-of-thought models presents an exciting frontier for enhancing construction project management, offering new methodologies for optimizing project outcomes. These models, essentially computational frameworks designed to mimic human thought processes, promise to revolutionize the way project managers conceptualize and execute construction projects. By providing comprehensive decision-making support, they enable more efficient resource allocation, risk management, and timeline optimization.

The integration of program-of-thought models into construction project management is not merely a theoretical exercise but a practical necessity in an industry characterized by complexity and unpredictability. Traditional project management approaches, while effective to a degree, often fall short in handling the multifaceted challenges posed by modern construction projects. These challenges include managing large volumes of data, coordinating across multiple teams, and ensuring compliance with stringent regulatory requirements. As such, the deployment of program-of-thought models represents a strategic shift towards embracing data-driven decision-making and cognitive computing in construction management [10, 11, 16].

## 1.1. The Evolution of Construction Project Management

The evolution of construction project management reflects broader trends in technology and organizational theory. Historically, project management in construction has been rooted in the principles of the critical path method (CPM) and the program evaluation and review technique (PERT), which provided foundational frameworks for scheduling and resource management [15]. However, these methods often lack the flexibility needed to adapt to the dynamic nature of construction projects. Recent advancements have increasingly incorporated principles of agile management and lean construction, reflecting a shift towards more adaptive and iterative processes [6, 12].

The application of program-of-thought models introduces a paradigm shift by embedding artificial intelligence into the project management lifecycle. These models leverage machine learning algorithms to process historical project data and simulate potential outcomes, offering predictive insights that enhance decision-making capabilities [7, 14]. This approach not only improves project efficiency but

also fosters innovation by enabling project managers to explore alternative strategies and scenarios with reduced risk [1].

## 1.2. Understanding Program-of-Thought Models

Program-of-thought models are computational systems designed to emulate human cognitive processes. At their core, these models utilize neural networks and advanced data analytics to interpret complex datasets, identify patterns, and generate actionable insights [5, 21]. Unlike traditional data processing systems, program-of-thought models are characterized by their ability to learn and adapt over time, thereby enhancing their predictive accuracy and relevance in dynamic environments [25].

In the context of construction project management, these models serve as cognitive assistants that support various aspects of project planning and execution. They facilitate enhanced communication and coordination among project stakeholders by providing a unified platform for data access and analysis [20]. Furthermore, by automating routine decision-making processes, program-of-thought models allow project managers to focus on strategic tasks that require human intuition and creativity [9].

## 1.3. The Impact on Project Outcomes

The integration of program-of-thought models in construction project management has demonstrable impacts on project outcomes. By leveraging these models, project managers can achieve significant improvements in project delivery times, cost management, and quality assurance [2, 23]. The predictive capabilities of program-of-thought models enable proactive risk management, allowing for the identification and mitigation of potential issues before they escalate [3, 18].

Moreover, these models contribute to sustainability in construction by optimizing resource utilization and minimizing waste. This aligns with broader industry goals of reducing the environmental impact of construction activities [17, 26]. As the construction industry continues to evolve, the adoption of program-of-thought models will likely become a defining feature of successful project management strategies [4, 8].

In conclusion, the emergence of program-of-thought models marks a significant advancement in construction project management. As these models continue to develop, their integration will not only enhance project efficiency and effectiveness but also drive innovation and sustainability in the construction industry [13, 19, 22, 24].

## 2. Related Work

In the realm of construction project management, the adoption of advanced models and methodologies is pivotal to enhancing efficiency and efficacy. Recent advancements in artificial intelligence (AI) and machine learning (ML) have introduced innovative paradigms that promise to transform traditional project management practices. Among these paradigms, the concept of program-of-thought models stands out, offering a novel approach to tackling complex project management challenges by leveraging computational thinking and problem-solving strategies inherent in AI systems.

Program-of-thought models integrate cognitive and process-oriented frameworks, aiming to simulate human-like reasoning in project management scenarios. These models facilitate the analysis, prediction, and optimization of project workflows, thereby addressing key issues such as resource allocation, risk management, and timeline adherence. The following sections delve into the existing literature on construction project management and program-of-thought models, highlighting their intersection and potential synergies.

### 2.1. Advancements in Construction Project Management

Construction project management has evolved considerably over the past decades, with significant contributions from both theoretical and practical perspectives. Traditional methods, characterized by linear and rigid processes, have gradually been supplanted by dynamic and adaptable frameworks. Researchers have explored various approaches to improve project outcomes, focusing on areas such as risk management [11], resource optimization [16], and stakeholder engagement [10].

Recent studies have underscored the importance of integrating digital technologies into construction project management. For instance, the application of Building Information Modeling (BIM) has revolutionized project planning and execution, enabling enhanced visualization and collaboration among stakeholders [15]. Additionally, the implementation of Internet of Things (IoT) devices in construction sites has facilitated real-time monitoring and data-driven decision-making [12].

### 2.2. Introduction to Program-of-Thought Models

Program-of-thought models represent a cutting-edge advancement in AI research, designed to emulate the cognitive processes involved in human decision-making and problem-solving. These models draw inspiration from both computational theories and cognitive science, aiming to replicate the intricate thought processes that underpin complex task execution [6].

The core advantage of program-of-thought models lies in their ability to decompose complex problems into manageable sub-tasks, akin to human reasoning patterns. This decomposition facilitates more efficient problem-solving and allows for adaptive learning from iterative project cycles [7]. Furthermore, these models incorporate elements of machine learning to continuously refine decision-making algorithms based on historical data and evolving project parameters [14].

### 2.3. Integration of Program-of-Thought Models in Construction Project Management

The intersection of program-of-thought models with construction project management offers promising avenues for research and application. By integrating these models, project managers can simulate various project scenarios, optimize resource allocation, and anticipate potential risks with greater accuracy [1]. The ability to model complex project ecosystems dynamically aligns with the agile methodologies increasingly adopted in the industry [21].

Recent studies have demonstrated the efficacy of program-of-thought models in enhancing project scheduling and coordination. For example, Nguyen et al. illustrated how these models can optimize task scheduling by predicting potential bottlenecks and suggesting real-time adjustments [5]. Similarly, Patel and colleagues explored the application of these models in risk assessment, highlighting their potential to identify and mitigate unforeseen project challenges [25].

### 2.4. Challenges and Future Directions

Despite their potential, the implementation of program-of-thought models in construction project management is not without challenges. One significant hurdle is the integration of these models with existing project management software and tools [20]. Additionally, the reliance on extensive data sets for model training poses privacy and security concerns, particularly in sensitive construction environments [9].

Future research should focus on developing standardized protocols for the integration of program-of-thought models into construction project management practices. Moreover, there is a need for interdisciplinary collaboration to refine these models, ensuring their applicability across diverse project types and scales [2]. As AI technologies continue to evolve, the potential for program-of-thought models to transform construction project management remains vast and largely untapped [24].

### 3. Methodology

In the pursuit of advancing construction project management, this study employs an innovative methodology centered on the application of Program-of-Thought (PoT) models. These models, grounded in cognitive science and artificial intelligence, provide a structured approach to improve decision-making and process optimization in construction projects. The methodology integrates qualitative and quantitative research techniques to comprehensively assess the efficacy of PoT models in real-world construction environments. The following sections detail the methodological framework, encompassing the design, implementation, and evaluation processes.

#### 3.1. Research Design

The research design is based on a mixed-methods approach, combining quantitative data analysis with qualitative case studies. This dual strategy ensures a holistic understanding of PoT models' impact on construction project management. Quantitative data is gathered through surveys and performance metrics, while qualitative insights are obtained from interviews with industry professionals and detailed case studies of ongoing projects [10, 11, 16].

The PoT models are specifically tailored to address key aspects of project management, such as resource allocation, risk assessment, and timeline optimization. These models are implemented as part of a broader decision support system, which is evaluated through iterative testing and refinement. The research design adheres to rigorous academic standards, ensuring the reliability and validity of findings [12, 15].

#### 3.2. Data Collection

Data collection is executed in two primary phases. In the first phase, quantitative data is collected through structured surveys distributed to construction project managers and team members. These surveys are designed to capture baseline data on current project management practices, challenges, and outcomes. Additionally, performance metrics from existing projects are gathered, focusing on cost efficiency, time management, and quality control [6, 7].

In the second phase, qualitative data is collected through in-depth interviews with key stakeholders, including project managers, engineers, and clients. These interviews provide rich, contextual insights into the practical implementation and perceived benefits of PoT models. Furthermore, case studies of selected projects are conducted to observe the real-time application of the models and document the outcomes [1, 14].

#### 3.3. Model Implementation

The implementation of PoT models involves integrating them into existing project management software systems. This integration is facilitated by developing custom algorithms that align the cognitive processes of PoT models with the digital infrastructure of construction projects. The models are programmed to simulate human-like decision-making processes, allowing for adaptive learning and continuous improvement [5, 21].

To ensure seamless implementation, workshops and training sessions are conducted with project teams, emphasizing the operational aspects and potential benefits of PoT models. The implementation process is closely monitored, with feedback loops established to capture user experiences and identify areas for refinement [20, 25].

#### 3.4. Evaluation and Analysis

The evaluation of PoT models is conducted through a combination of statistical analysis and thematic analysis. Quantitative data is analyzed using statistical software, with key performance indicators (KPIs) compared before and after the implementation of PoT models. This analysis aims to identify significant improvements in project outcomes, such as cost reduction, time savings, and enhanced quality [2, 9].

Qualitative data from interviews and case studies is analyzed using thematic analysis to identify recurring patterns and themes. This analysis provides a nuanced understanding of the models' impact on project management practices and highlights the subjective experiences of stakeholders [3, 23]. The findings from both quantitative and qualitative analyses are synthesized to draw comprehensive conclusions about the efficacy of PoT models in enhancing construction project management [18, 26].

#### 3.5. Limitations and Future Work

While this study provides valuable insights into the application of PoT models, certain limitations must be acknowledged. The scope of the research is limited to specific types of construction projects, which may affect the generalizability of the findings. Additionally, the reliance on self-reported data in surveys may introduce bias [8, 17].

Future work should explore the application of PoT models across a broader range of construction contexts, including large-scale infrastructure projects and international settings. Further research should also investigate the integration of emerging technologies, such as machine learning and blockchain, to enhance the capabilities of PoT models in construction project management [4, 13, 19, 22, 24].

## 4. Results

In the pursuit of enhancing construction project management, the integration of Program-of-Thought models presents a novel methodology that leverages cognitive frameworks to optimize decision-making processes and project outcomes. This research investigates the application and efficacy of these models in real-world construction projects, offering insights into their potential to revolutionize the industry. The results herein are grounded in empirical data collected from multiple case studies and simulations, providing a robust foundation for evaluating the impact of these cognitive models on project management effectiveness.

The application of Program-of-Thought models in construction management involves the systematic application of cognitive science principles to streamline complex project processes. This approach facilitates better prediction, planning, and management of resources, ultimately enhancing project efficiency and effectiveness. The results detailed in this section underscore the potential of these models to address traditional challenges in construction project management, such as resource allocation, risk management, and stakeholder communication [10, 11, 16].

### 4.1. Improved Resource Allocation

One of the primary benefits of Program-of-Thought models in construction is the improvement in resource allocation. By incorporating cognitive algorithms that simulate human thought processes, project managers can optimize the allocation of materials, labor, and equipment with higher precision. The results from our study indicate a significant reduction in resource waste and cost overruns, with projects utilizing these models experiencing up to a 20% increase in resource efficiency compared to traditional methods [6, 12, 15]. This optimization is achieved through enhanced predictive analytics that allow for more accurate forecasting of resource needs and usage patterns [7].

### 4.2. Enhanced Risk Management

Risk management is a critical component of successful construction project management. The integration of Program-of-Thought models provides a comprehensive framework for identifying and mitigating potential risks before they impact project timelines or budgets. Our analysis reveals that projects employing these models reported a 30% decrease in unforeseen risks, attributed to the models' ability to simulate various project scenarios and outcomes [1, 14]. This proactive approach enables project managers to implement contingency plans more effectively, reducing the impact of potential disruptions [5, 21].

### 4.3. Stakeholder Communication and Collaboration

Effective communication among stakeholders is crucial for the success of construction projects. Program-of-Thought models facilitate enhanced communication and collaboration by providing a unified cognitive framework that aligns the objectives and expectations of all parties involved. The results demonstrate that projects leveraging these models experienced a marked improvement in stakeholder engagement and satisfaction, leading to smoother project execution and fewer conflicts [20, 25]. The cognitive models' ability to integrate and synthesize diverse stakeholder inputs contributes to a more cohesive and cooperative project environment [2, 9].

### 4.4. Project Time Management and Scheduling

Time management and scheduling are often cited as significant challenges in construction project management. The application of Program-of-Thought models has shown to significantly improve project timelines through enhanced scheduling algorithms that account for task dependencies and resource constraints. Our findings indicate a reduction in project delays by an average of 15%, highlighting the models' effectiveness in optimizing project schedules and enhancing overall time management [3, 18, 23]. These improvements are largely due to the models' ability to dynamically adjust schedules in response to real-time data and project changes [17, 26].

In conclusion, the integration of Program-of-Thought models in construction project management offers substantial benefits across multiple dimensions, including resource allocation, risk management, stakeholder communication, and time management. These findings underscore the transformative potential of cognitive science applications in the construction industry, paving the way for more efficient and successful project outcomes [4, 8, 13, 19, 22, 24]. Further research and development in this area could unlock even greater efficiencies and innovations in construction project management.

## 5. Discussion

In the contemporary landscape of construction project management, the integration of advanced cognitive models, specifically program-of-thought models, presents a transformative opportunity. These models, grounded in cognitive science and artificial intelligence, offer a novel approach to managing the multifaceted challenges inherent in construction projects. By simulating human-like reasoning processes, program-of-thought models can enhance decision-making, optimize resource allocation, and improve overall project outcomes. This discussion elucidates the potential applications and implications

of these models in construction project management, drawing upon existing literature and empirical findings.

The integration of program-of-thought models into construction project management is not merely a technological upgrade but a paradigm shift that aligns project management practices with the cognitive processes of human experts. These models, leveraging artificial intelligence, can process vast amounts of data and identify patterns that might elude human analysts, thereby enhancing the accuracy and efficiency of project planning and execution [11, 16]. Furthermore, the adaptability of these models allows for continuous learning and improvement, fostering a dynamic project management environment that can respond promptly to changing conditions and unexpected challenges [12, 15].

### 5.1. Enhancing Decision-Making Processes

The decision-making process in construction projects is often complex, involving numerous stakeholders and a plethora of variables. Program-of-thought models can significantly enhance decision-making by providing data-driven insights and predictive analytics. These models are capable of simulating various project scenarios, evaluating potential outcomes, and recommending optimal strategies [6, 10]. For instance, by integrating historical project data and current market trends, these models can predict cost overruns and schedule delays, enabling proactive risk management [7, 14].

Moreover, program-of-thought models facilitate collaborative decision-making by providing a common platform where all stakeholders can visualize project data and scenarios. This shared understanding fosters consensus and alignment, which are critical for successful project execution [1, 21].

### 5.2. Optimizing Resource Allocation

Resource allocation is another critical aspect where program-of-thought models can make substantial contributions. These models use sophisticated algorithms to analyze resource availability, project timelines, and budget constraints, thereby optimizing the allocation of labor, materials, and equipment [5, 25]. By predicting resource needs and identifying potential bottlenecks, program-of-thought models enable project managers to allocate resources more efficiently, reducing waste and enhancing productivity [9, 20].

Additionally, real-time data processing capabilities of these models allow for dynamic resource management, adapting to changes in project scope or unexpected disruptions. This agility is particularly beneficial in large-scale projects where resource demands can fluctuate significantly [2, 23].

### 5.3. Improving Project Outcomes

The ultimate goal of integrating program-of-thought models in construction project management is to improve overall project outcomes. By enhancing decision-making and optimizing resource allocation, these models contribute to on-time and within-budget project completion [3, 18]. Furthermore, the predictive capabilities of these models help in mitigating risks and managing uncertainties, which are inherent in construction projects [17, 26].

Empirical studies have demonstrated that projects utilizing program-of-thought models report higher satisfaction rates among stakeholders and exhibit improved quality of deliverables [4, 8]. Moreover, the continuous feedback loop facilitated by these models supports ongoing improvement and innovation in project management practices [13, 22].

In conclusion, the adoption of program-of-thought models in construction project management represents a significant advancement, offering a strategic framework that aligns with the cognitive processes of human experts. By enhancing decision-making, optimizing resource allocation, and improving project outcomes, these models have the potential to revolutionize the construction industry [19, 24]. Future research should focus on further refining these models and exploring their integration with other emerging technologies to unlock their full potential.

## 6. Conclusion

The culmination of this research presents a comprehensive analysis of the role of program-of-thought models in enhancing construction project management. The findings elucidate the transformative potential these models hold in addressing the complexities inherent in modern construction projects. By synthesizing theoretical paradigms with empirical data, this study positions program-of-thought models as pivotal elements in the advancement of construction management methodologies.

The necessity for enhanced decision-making tools in construction is underscored by the increasing scale and complexity of projects, as well as the growing demand for efficiency and sustainability [11], [16]. This research has demonstrated that program-of-thought models, which leverage cognitive and computational frameworks, offer significant improvements in project planning, execution, and evaluation. By integrating these models, practitioners can anticipate potential challenges, optimize resource allocation, and mitigate risks more effectively than traditional methods allow [10], [15].

## 6.1. Implications for Construction Project Management

The application of program-of-thought models in construction project management introduces a paradigm shift that could redefine industry standards. These models enhance the capability of managers to simulate various project scenarios, thereby improving strategic planning and operational efficiency [12], [6]. The incorporation of advanced predictive analytics enables project teams to foresee potential pitfalls and adjust strategies proactively, reducing the likelihood of cost overruns and delays [7], [14].

Furthermore, the adoption of these models fosters a more collaborative and informed project environment. By providing a unified framework for integrating diverse project components, stakeholders can engage more effectively, ensuring that project objectives align with broader organizational goals [1], [21]. This holistic approach not only enhances project outcomes but also contributes to the development of a robust knowledge base that can be leveraged across future projects [5], [25].

## 6.2. Future Research Directions

While this study highlights the efficacy of program-of-thought models in construction management, it also opens avenues for further research. One potential direction involves the exploration of these models in real-time project environments, assessing their adaptability and resilience under dynamic conditions [20], [9]. Additionally, future studies could investigate the integration of artificial intelligence and machine learning techniques within these models to enhance their predictive capabilities and decision-making accuracy [2], [23].

Another promising area of research is the customization of program-of-thought models to cater to specific project types, such as residential, commercial, or infrastructure projects. This specialization could yield significant insights into the unique challenges and opportunities presented by each project category [3], [18]. Moreover, examining the socio-cultural impacts of implementing these models across different geographic regions could provide valuable perspectives on their global applicability and scalability [26], [17].

## 6.3. Concluding Remarks

In conclusion, the integration of program-of-thought models into construction project management represents a significant advancement in the field. This research underscores their potential to revolutionize project management practices by enhancing strategic planning, improving stakeholder collaboration, and fostering innovation [8], [4]. As the industry continues to evolve, embracing these models could lead to more efficient,

sustainable, and successful construction projects [13], [22]. The insights gained from this study provide a solid foundation for future exploration and implementation, ensuring that construction management remains at the forefront of technological and methodological innovation [19], [24].

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