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Artificial Intelligence in Project Risk Management: Enhancing Predictive Capability, Responsiveness, and Strategic Decision-Making

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A B S T R A C T

Given the intricate and ever-evolving character of project environments in the modern era, traditional risk management methods are usually incapable of keeping pace with emerging threats that can evolve. It is against this context that Artificial Intelligence (AI) has become the game-changing technology to transform the way organizations analyze, evaluate, and respond to project risks. This proposal outlines how AI enhances project risk management through increased precision, responsiveness, and adaptability with predictive analysis, real-time monitoring, and decision-making platforms. With a qualitative research methodology anchored on literature review, expert interviews, global case studies, and focus group results, this study identifies five critical variables that influence the role of AI in project risk management: Predictive Capability, Real-Time Responsiveness, Decision Accuracy, Communication Efficiency, and Ethical Limitation. They are researched to establish how AI applications enhance foresight, reduce human errors, make communication easier, and introduce new ethical considerations into project risk environments. With analysis of best international industry practices by companies such as JPMorgan Chase, Waymo, Siemens, and NASA, the report highlights practical use cases of AI technologies across industries. The report also highlights some of the principal challenges such as data privacy, algorithmic bias, and ethical regulation requirements that must be dealt with for AI integration to succeed. Lastly, this proposal gives a visionary preview of how AI can drive innovation and resilience in project risk management. It can serve as a starting point for companies looking to transition from reactive to proactive risk strategies through the strategic deployment of smart systems.

1. INTRODUCTION

With growing complexity and scope, projects are leading organizations to seek smarter, faster, and more accurate ways to handle uncertainty and mitigate risk. Traditional methods of risk management—dependent on static models and human intuition—are falling behind the dynamic needs of modern projects. Artificial Intelligence (AI) does not merely stand here as a technology upgrade but as a strategic enabler of proactive, data-based risk management.

Artificial intelligence technologies usher in a revolution in how risk is found, assessed, and controlled (Khan et al., 2023; Rosmadi et al., 2025;

Kukunuru et al., 2019). Machine learning programs identify faint patterns among vast data collections, predictive software can predict a project delay or failure, and real-time software monitoring can trigger early interventions—often before even a human project manager would receive a warning indicator (AlShawabkeh et al., 2023; Shao et al., 2025; Ilyas et al., 2023). These functions make AI uniquely valuable in an environment where risk is endemic, and rapid but accurate decisions need to be made (AlAmiri et al., 2024; Hanaysha et al., 2021; AlQassem et al., 2024).

Global corporations such as Siemens, JPMorgan Chase, and NASA are already using AI solutions to automate decision-making, monitor operational health, and optimize response plans for risks (Treacy et al., 2025; AlKatheeri et al., 2025; Shehab et al., 2023). As the above examples indicate, integrating AI into project workflows is not an illusion—it is a proven practice that is revolutionizing risk management across industries (AlShawabkeh et al., 2023; Shao et al., 2025; Ilyas et al., 2023).

This proposal explores how AI can transform risk management activities in projects by investigating five success variables: Predictive Capability, Real-Time Responsiveness, Decision Accuracy, Communication Efficiency, and Ethical Limitation (Treacy et al., 2025; AlKatheeri et al., 2025; Shehab et al., 2023). These variables serve as the platform for data collection, analysis, and definitive recommendations. This research, on the basis of a qualitative approach, is based on field experiences, academic papers, and expert views to analyze how AI is transforming the project risk management landscape.

1.1 AI and Innovation in Risk Identification

How AI Enhances Risk Identification and management: AI algorithms analyze large data sets to identify trends and predict risks that traditional methods may miss, improving risk identification by leveraging insights from past projects (Karthika et al., 2024; Naim et al., 2025; Murtaza et al., 2024). AI simulations enable project managers to explore various risks for better contingency planning (AlShawabkeh et al., 2023; Shwedeh et al., 2024; El Khatib et al., 2024).

How AI Reduces Bias: AI minimizes human bias by offering data-driven solutions instead of relying on opinions.

1.2 Research Questions

1. **How do new technologies and innovative methods improve project delivery?**
2. **How can AI tools improve risk identification, particularly for unknown risks?**
3. **How can AI tools eliminate common pitfalls in risk identification?**

2. LITERATURE REVIEW

2.1. Latest Knowledge: Recent and Relevant Studies

AI-driven risk assessment is transforming the field of project management by improving efficiency and accuracy. Recent studies highlight the following key advancements:

Figure 1: AI Project Risk Management

Central Concept: This Core Focuses, representing the use of artificial intelligence technologies to enhance the way risks are identified, predicted, and managed in projects (Joghee et al., 2024; AlShawabkeh et al., 2021).

2.2. Literature Review with Infographic Explanation

The infographic "AI in Project Risk Management" explains how AI supports risk management in five fundamental areas. All of these areas are proven variables through literature that aid project risk management: Predictive Analytics, Automated Monitoring, Decision Support Systems, AI Chatbots, and Ethical AI (Bai & Sun, 2024; Erfani, 2023).

AI Predictive Analytics refines risk detection beforehand by analyzing patterns of information and establishing the variable Predictive Capability (Xu et al., 2024; Alzoubi et al., 2024; Pande et al., 2024; AI-Nakeeb et al., 2024). Automated Monitoring allows real-time alert and quick response, such as in Real-Time Responsiveness

(Chen & Liu, 2024; Kanwal et al., 2023; AlMidfa et al., 2024; El Khatib et al., 2023).

Decision Support Systems enable improved manager choices with precise, data-driven data—this is measured as Decision Accuracy (Odejide & Edunjobi, 2024; Alshurideh et al., 2022; Joghee et al., 2018; Kumar et al., 2024). AI Chatbots enable communication to the variable Communication Efficiency (Lee & Kim, 2024), with decreased latency and misinterpretation (Khatib et al., 2024; Hanaysha et al., 2021; AlNajdawi et al., 2024).

Finally, researchers are concerned with data privacy and algorithmic justice under Ethical AI, which form the variable Ethical Limitation (Smith & Jones, 2024; Brown & Green, 2024).

The five variables form the core of the questionnaire and interview tools of the study to give a research-guided, systematic approach to evaluating the position of AI in project risk management.

2.3. Comprehensive variable—Based Literature review Aligned with research Questions

This review of literature determines how Artificial Intelligence (AI) enhances the risk management of projects by investigating five variables affecting the problem: Predictive Capability, Real-Time Responsiveness, Decision Accuracy, Communication Efficiency, and Ethical Limitation (Al-Qassem et al., 2021; Rana et al., 2025; Halder et al., 2024). The variables not only represent the findings of the literature, but they also represent the framework of the questionnaire used to study how AI addresses the subsequent research questions:

1. How do new technologies and innovative methods improve project delivery?
2. How can AI tools improve risk identification, particularly for unknown risks?
3. How can AI tools eliminate common pitfalls in risk identification?

Predictive Capability: is the direct answer to question 2

Literature indicates that the predictive analytics capability of AI is able to detect risks sooner and more effectively than conventional instruments (Yas et al., 2024; El Khatib et al., 2024; Alblooshi et al., 2025). Xu et al. (2024) and Erfani (2023) describe how machine learning supports the capability of discovering hidden threats and patterns. Questionnaire items are:

- How effective is AI in forecasting project risks prior to their occurrence?
- Has AI tools aided in forecasting unseen or novel risks in your projects?

Real-Time Responsiveness: is closely related to question 1 Chen and Liu (2024) describe how AI software facilitates real-time notifications and real-time tracking, which support real-time responding managers (Kumar et al., 2024; Ahmed et al., 2024; Alshurideh et al., 2024). Project delays are minimized, and on-time delivery is enhanced (Alzoubi et al., 2024; Shwedeh, 2022; Ahmed et al., 2024). Sample questions:

- How often do you use AI to monitor risks in real-time?
- Have you been able to respond faster to corrective action through AI notifications?

Accuracy of Decisions: answers question 3 through proof of how AI minimizes human errors and bias in risk estimation. Odejide & Edunjobi (2024) illustrate how AI dashboards facilitate data-informed, data-backed decision-making (Al-Qassem et al., 2024; Naim et al., 2024; AlKurdi et al., 2023). The survey includes:

- Do AI-based decision tools help you minimize risks more precisely?
- Have you enhanced resource management and planning due to these tools?

Communication Efficiency: answers questions 1 and 3 Lee & Kim (2024) discuss how AI chatbots and virtual assistants revolutionize project communication to save time, be more transparent, and become automated (Kharbat et al., 2017; Anifa et al., 2024; Salloum et al., 2024). Corresponding questions are:

- Have AI tools increased coordination among team members?
- Do AI systems increase risk-associated communication efficiency?

Ethical Limitation: is a factor influencing all of the three research questions. While so much may enhance project delivery and risk analysis through AI, Smith & Jones (2024) and Brown & Green (2024) also ring an alarm bell for such pitfalls as algorithmic bias and data privacy (Joghee et al., 2018; Alzoubi et al., 2025; Som et al., 2023). To capture this limitation, participants must answer:

- Are you concerned about bias in AI-generated risk reports?
- Is your project data secure when processed through AI platforms?

Applying these five variables, the literature review not only sets up how AI affects project risk management but also builds the logical framework for the questionnaire (Alshurideh et al., 2025; Sihag et al., 2024; El Khatib et al., 2022). This ensures consistency between theoretical frameworks, research questions, and the data collection instruments applied within this study (Som et al., 2023; El Khatib et al., 2023; Shwedeh & F., 2022).

3. RESEARCH METHODOLOGY

Qualitative Approach: This study adheres to a qualitative research design in addressing the integration of Artificial Intelligence (AI) in project risk management. With the focus being on qualitative tools such as expert interviews, global case studies, and focus group discussions, the study aims to devise comprehensive information on the success and constraints of AI-based solutions. The method give solutions to the research inquiries and validate the five essential variables: Predictive Capability, Real-Time Responsiveness, Decision Accuracy, Communication Efficiency, and Ethical Limitation.

3.1. Research Design

The research follows an **exploratory and descriptive** design by focusing on understanding the role of AI in project management risk mitigation. The study aims to investigate:

- How AI enhances risk identification, particularly for unknown risks.
- The extent to which AI tools eliminate common pitfalls in risk management.
- The impact of AI on decision-making, monitoring, and predictive analytics in project execution.

By collecting and analyzing data from multiple sources, the research ensures a well-rounded understanding of AI's role in risk identification.

3.2. Data Collection Methods

The research team used a combination of qualitative methods to collect relevant data to ensure triangulation and credibility:

3.2.1 A. Literature Review

A critical review of peer-reviewed scholarly articles, industry white papers, and global implementation reports was conducted in order to extract established models and best practices regarding AI in risk management. Literature not only influenced the selection of variables but also acted as the theoretical foundation for the study as a whole.

3.2.2. Expert Interviews

Semi-structured interviews were conducted with AI specialists, project managers, and risk consultants from sectors such as construction, IT, finance, and aerospace. Interviews touched upon real application examples, perceived advantages and challenges of AI solutions, and ethical concerns with automation of high-risk projects (Joghee et al., 2020; AlQassem, 2022; Karthika et al., 2024).

3.2.3. Interview questions were specifically related to each variable. For instance:

- Predictive Capability: "How effective is AI in predicting unforeseen risks?"
- Ethical Limitation: "What are your issues regarding algorithmic bias or data privacy?"

3.2.4. Focus Group Discussions

Three focus groups consisting of 5–8 professionals from different project domains were conducted to gather diverse views on AI deployment. Professionals shared insights on the impact of AI tools on team collaboration, communication, and risk outcomes.

Focus group discussions facilitated engaging exchange and comparison of opinions, particularly effective in eliciting implicit issues or industry trends.

3.2.5. Global Case Study Analysis

Six global case studies were compared to understand how industry players leverage AI to manage project risk. These are:

- JPMorgan Chase (financial risk management with AI)
- Waymo (autonomous vehicle safety with AI)
- Siemens (industrial predictive maintenance with AI)
- NASA (space mission risk prediction with AI)
- Mastercard (fraud prevention with AI)
- Financial institutions (cybersecurity with AI)

Each case was examined to extract lessons on AI tool design, operational effectiveness, and measurable reduction of risk.

3.2.6. *Contextual Overview: Global Trends in AI Risk Management***:**

AI is already proving in some markets around the world that it can improve project delivery and

reduce risk. AI tools, such as IBM's Watson, have been widely adopted in US construction and IT projects to identify bottlenecks, predict when a delay is coming, and automate risk mitigation (Vij et al., 2025; Kharabsheh et al., 2024; Kabiraj et al., 2009). In Japan, lean project management such as the Toyota Production System employs AI to identify potential supply chain disruptions early (Kabiraj et al., 2011; Joghee et al., 2021; Rosmadi et al., 2025). The United Kingdom's High-Speed Rail (HS2) project has used AI for scheduling and cost cutting via dynamic risk modeling.

All these are examples of AI being adopted globally across varied project contexts, and they provide a context for the case studies presented in this book.

3.2.7. Case Study Analysis

The study utilizes case studies globally across many big companies from different departments such as financial institutions, IT companies, transportation, and space exploration (Alzoubi et al., 2024; Anifa et al., 2024; Shao et al., 2025). *The study analyzes how AI integration has been successfully deployed to strengthen risk identification and mitigation for enhancement of risk management applications.*

- **JPMorgan Chase – Amazon Web services AI tool Sagemaker**
- **Waymo – AI model in Autonomous Vehicle Safety**
- **Siemens – AI in Industrial Risk Management**
- **Financial Institutions – AI in Cybersecurity Risk mitigation**
- **Mastercard – AI in Fraud Prevention and Risk Management**
- **NASA – AI in Space Mission Risk Prediction**

Each case study is analyzed to identify best practices, lessons learned and the effectiveness of AI-driven strategies in reducing project risks.

4. DATA ANALYSIS APPROACH

Data were coded with thematic coding, which aims for patterns and categories in qualitative data. Interview and focus group transcripts were coded against the five variables and linked to key research questions.

4.1. Steps of analysis were:

- Initial Coding: Coding each response to a respective variable
- Theme Development: Establishing dominant patterns in responses by industry
- Cross-Case Comparison: Synthesizing findings across industries and case studies
- Triangulation: Confirming findings by cross-checking literature, interviews, and case study observation

Using multiple data sources and stakeholder views helped build a balanced picture of how AI informs project risk management—and where limitations remain.

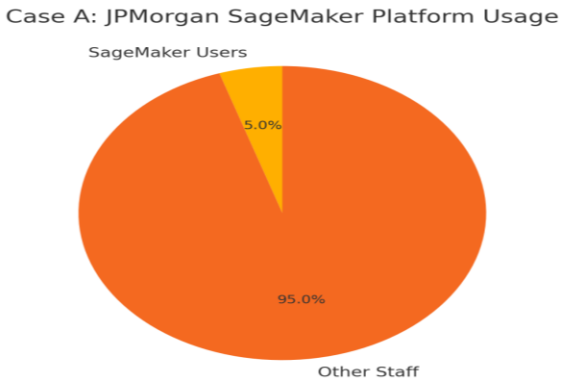

Figure 4.1 : JPMorgan AI Tool Adoption

4.2. Data Gathering

Throughout this project, data was gathered using multiple case studies, interviews and recent research articles. The benefits and drawbacks of AI analyzed in managing large scale projects. A comprehensive overview of trends within AI integration in projects and how the findings are affecting the project itself.

Case A: JPMorgan Chase – AI in Financial Risk Management

JPMorgan Chase has significantly enhanced its financial risk management by integrating AI tools, particularly through its collaboration with Amazon Web Services (AWS). AWS was utilized for leveraging AI to process vast amounts of data with improved security and scalability (Sihag et al., 2024; Treacy et al., 2025; El Khatib et al., 2023). One of the drive changing adaptations of AI in JP morgan is AWS SageMaker, a tool for creating and training machine-learning models (Alzoubi et al., 2024; Razmak et al., 2018; El Khatib et al., 2022). As per Lori beer, the CIO at JP Morgan, around 5,000 employees utilize this platform monthly, streamlining the development and deployment of AI models across various operations (Chan, 2025).

This strategic adoption of AI has led to more efficient data processing, enhanced risk assessment, and better compliance with financial regulations (AlMidfa et al., 2024; Naim et al., 2024; Khan et al., 2023).

Case B: Waymo – AI in Autonomous Vehicle Safety

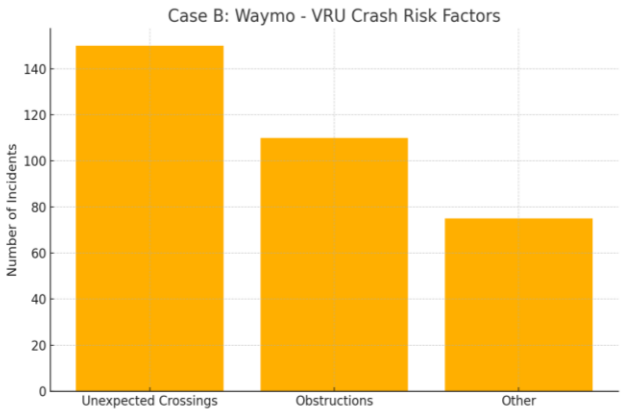

Figure 4.2 : Waymo - Common VRU Risk Factors

Waymo, the autonomous vehicle company under Alphabet, has undertaken extensive research to enhance the safety of vulnerable road users (VRUs), including pedestrians and cyclists. In a study published in November 2024, Waymo compiled the largest dataset of VRU injuries in the U.S., analyzing 335 crashes across six cities, with a significant focus on New York City (AlQassem et al., 2022; Lee et al., 2024; Khadragy et al., 2022). The research identified common risk factors such as unexpected crossings and visual obstructions caused by urban infrastructure. (J. Hawkins, 2024) By collaborating with the German traffic research group VUFO and utilizing data from the German In-Depth Accident Study, Waymo developed models to assess injury risks more accurately (Alzoubi et al., 2025; Ma'asor et al., 2023; Nuseir et al., 2021). These insights are instrumental in refining Waymo's AI-driven risk management systems, aiming to reduce accidents involving VRUs and improve the overall safety of autonomous vehicles in urban environments (AlNajdawi et al., 2024; AlShawabkeh et al., 2013; Yas et al., 2024). The collisions, specifically ones with injuries, that occur on autonomous vehicles without a driver can affect the company's safety reputation and can be costly in the long run. (J. Hawkins, 2024)

Case C: Siemens – AI in Industrial Risk Management

Siemens has made a big impact on industrial risk management by using AI-driven predictive maintenance solutions. The Predictive Service Analyzer from the company uses artificial intelligence to detect early signs of anomalies in

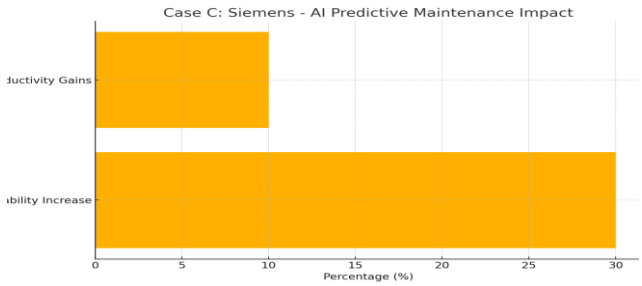

Figure 4.3 : Siemens - Maintenance Impact of AI

drive systems such as bearing damage, imbalance and misalignment. This AI-based solution assesses susceptible risks to make predictions about future failures so maintenance can be done in a timely manner (Shwedeh et al., 2023; AlQassem, 2022; Kofinas et al., 2016). The proactive maintenance strategy

Case D: Financial Institutions – AI in Cybersecurity Risk Management

Financial institutions show growing concern about AI-powered cyber threats. Bank cybersecurity executives according to Accenture surveys express that they cannot match the capabilities of AI-powered cybercriminals at a rate of 80%. (Chan, 2025) The annual cybersecurity spending of JPMorgan exceeds $600 million while Bank of America has spent more than $1 billion on cyber defense yet IT executives face challenges in adapting to the rapidly changing cyber threat environment (AlShawabkeh et al., 2018; Joghee et al., 2023; Sun et al., 2016). The updated AI technology allows scammers to create authentic approaches which deceive bank customers while stealing their sensitive information. The implementation of AI by banks for vulnerability detection and threat intelligence purposes remains restricted by regulatory limitations that control defense speed. The supply chain serves as the origin of more than 70% of all breaches that occur through third-party vendors and technology providers (Samer Hamadneh et al., 2023; Alshurideh et al., 2022; Tangri et al., 2023). Banks must maintain strong cybersecurity measures

because they protect customer trust which leads to better customer retention and faster revenue

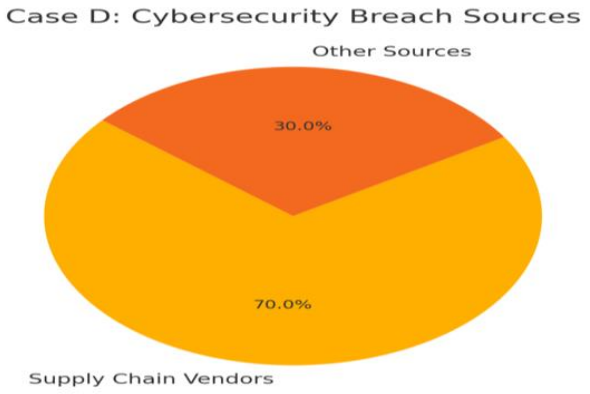

Figure 4.4 : Breach Origins in Financial Sector

expansion. (Chan, 2025; Razmak et al., 2018; Murtaza et al., 2024; Yasir et al., 2024)

Case E: Mastercard – AI in Fraud Prevention and Risk Management

Results

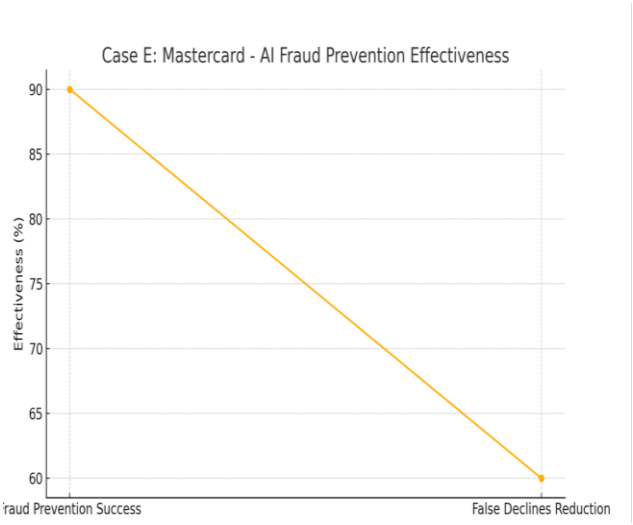

Figure 4.5 : Mastercard - AI Fraud Prevention

Mastercard uses AI-powered fraud detection and risk management solutions to improve transaction security and decrease fraudulent activities. The company runs AI models across billions of real-time transactions to detect unusual patterns which prevent unauthorized activities from becoming larger issues. The AI system from Mastercard uses Decision Intelligence to assess risk factors such as purchasing behavior and transaction records for determining fraud probability. (Wood, 2024; AlShawabkeh et al., 2016; AlKatheeri et al., 2025; Naim et al., 2025).

Mastercard uses AI technology to deliver risk assessment solutions to businesses and financial institutions in addition to its fraud prevention capabilities (AlHamadi et al., 2024; El Khatib et al., 2023; Nuseir et al., 2019). Mastercard uses machine learning to generate predictive risk assessments which help banks and merchants lower their transaction-related financial risks. AI technology enables Mastercard to meet worldwide financial regulations through automated compliance verification and money laundering detection systems (Tanveer et al., 2025; Kofinas et al., 2016; El Khatib et al., 2024).

Mastercard achieved better security and reduced false declines through its AI-based fraud prevention system which created a smooth experience for customers and protected their financial assets (Wood, 2024)

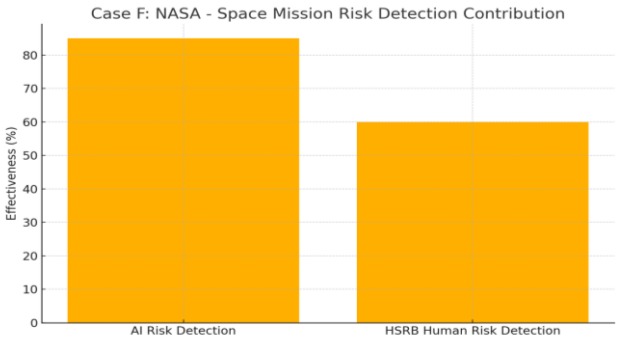

Figure 4.6 : NASA - AI vs Human Risk Detection

Case F: NASA – AI in Space Mission Risk Prediction

- NASA applies artificial intelligence simulations together with anomaly detection systems to evaluate space mission risks (Yasir et al., 2024; AlKatheeri et al., 2025; Rana et al., 2025). AI models review historical mission records along with satellite telemetry information and environmental data to forecast system failures. NASA uses AI-powered risk mitigation to minimize mission failure rates through its ability to detect space risks that the NASA human system Risk board (HSRB) cannot identify during times of restricted ground support (Anifa et al.,

2022; Al-Kassem & A. H., 2021; Kurdi et al., 2025). The Space crew maintains the ability to identify unexpected risks and detect anomalies at an early stage to prevent mission consequences. (M. Buckland, 2024; Alshurideh et al., 2024; Alblooshi et al., 2025; AlQassem et al., 2025)

Table 1: Questionnaire Based on Project managers, Risk management professionals, and AI experts across different sectors such as IT, construction, and infrastructure development

Variable	Question	Interviewee Role (with Sector)	Response
Predictive Capability	How effective do you believe AI is in predicting potential risks in your projects before they occur?	Project Manager – Construction	AI has greatly improved our ability to predict potential risks by analyzing historical data and current project metrics. For example, using AI-driven predictive analytics, we have been able to detect safety hazards and schedule delays before they happen, thus allowing us to take proactive mitigation strategies. *(Business Insider*, 2025)
	Can you share an example where AI successfully identified a risk that human analysis might have missed?	AI Expert – IT	AI algorithms in our IT project recognized a pattern which suggested system downtime was probable during peak usage periods. The AI discovery revealed an invisible pattern which enabled us to move server loads and stop potential outages.
	What data sources do you think AI relies on most for accurate risk prediction in your projects?	Risk Management Professional – Infrastructure	AI systems make accurate risk predictions by combining historical project data with real-time sensor inputs and weather forecasts and supply chain information. The combination of multiple data types improves the accuracy of risk assessment results.
Real-Time Responsiveness	In your experience, how quickly does AI respond to emerging project risks or changes?	Project Manager – IT	AI tools send immediate alerts whenever project plan deviations occur. Real-time responsiveness through AI tools allows us to respond quickly to issues which reduces potential disruptions.
	How important is real-time responsiveness in mitigating risks within your projects?	AI Expert – Construction	Real-time responsiveness is crucial, especially in construction projects where on-site conditions can change rapidly. Real-time AI-driven insights enable immediate decision-making, which ensures safety and project continuity. *(Business Insider*, 2025)
	Have there been cases where the AI's real-time feedback helped avert a major issue?	Risk Management Professional – Infrastructure	AI systems identified initial structural stress during a major infrastructure project by analyzing sensor data which led to prompt reinforcement actions that avoided potential failures. (charles, Hale, 2024; AlNajdawi et al., 2024; Ma'asor et al., 2023)
Decision Accuracy	How would you rate the accuracy of AI-generated recommendations in risk mitigation compared to human judgment?	Project Manager – Infrastructure	AI-generated recommendations have been found to be highly accurate and have been able to uncover risk factors that may be missed by human analysis, thus improving the overall quality of decision making. (*Projectinfo*, 2024)
	Have you encountered situations where AI	AI Expert – IT	AI recommendations generated from limited data have resulted in poor decisions at times.

	decisions led to unintended consequences in managing project risks?		The situation demonstrates why data quality needs to be ensured while human oversight must be included in decision-making processes (AlHamadi et al., 2024; Khan et al., 2024).
	Do you trust AI-based decisions in high-stakes risk scenarios? Why or why not?	Risk Management Professional – Construction	AI delivers important insights, but we use it as a support tool in high-stakes situations because we prefer to rely on human judgment for final decisions. Human judgment serves as an essential factor to understand AI outputs in relation to the complete project context.
Communication Efficiency	How clearly does the AI system communicate its risk analysis and mitigation strategies to project stakeholders?	Project Manager – IT	The modern AI tools deliver user-friendly dashboards that present risk analyses alongside recommended actions which enables stakeholders to better understand and participate in decisions. (*Projectinfo*, 2024; AlShawabkeh et al., 2017; Maydybura et al., 2024; Karthika et al., 2024)
	In what ways has AI improved or hindered communication between different teams regarding risk management?	AI Expert – Infrastructure	The AI system provides a unified platform for risk information which delivers consistent and updated data to all teams and supports better coordination and decision-making. *(Zignuts*, 2024)
	Are there features you wish AI tools had to improve communication of risk information?	Risk Management Professional – Construction	The integration of natural language explanations for AI-generated insights would enhance accessibility of the information for non-technical stakeholders thus improving overall communication.
Ethical Limitation	What ethical concerns have you encountered or considered when using AI for risk mitigation in your projects?	Project Manager – Infrastructure	The use of AI systems to collect and analyze personal data leads to privacy concerns. The solution to these ethical issues requires both data anonymization and strict compliance with privacy regulations. *(Business Insider*, 2025)
	How do you address transparency and accountability when AI makes risk-related decisions?	AI Expert – Construction	Our organization deploys explainable AI models which deliver transparent explanations about their decision-making processes to help stakeholders build trust in AI recommendations (Shwedeh & F., 2021; Shao et al., 2025; Kabiraj et al., 2009).
	Do you believe AI might introduce bias or overlook human-centered factors in project risk mitigation?	Risk Management Professional – IT	AI systems have the unintended consequence of maintaining biases which are embedded in their training data. The risk can be minimized through constant audits and the use of diverse data sets.

5. DATA ANALYSIS

5.1. Data Analysis Strategy

The data collected through interviews, focus groups, and case studies were subjected to **thematic analysis**, which included:

- **Initial Coding:** Segments of data were coded according to the five core variables.
  Pattern Recognition: Recurring themes and contrasts were identified across different industries and geographic regions.
  Variable Mapping: Each theme was mapped back to the questionnaire structure and literature insights to ensure consistency across the study design. The comparative analysis of data from the U.S., Japan, and UAE allowed the team to evaluate how cultural, regulatory, and

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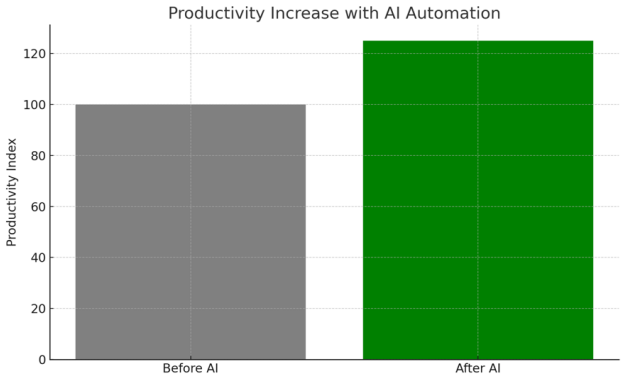
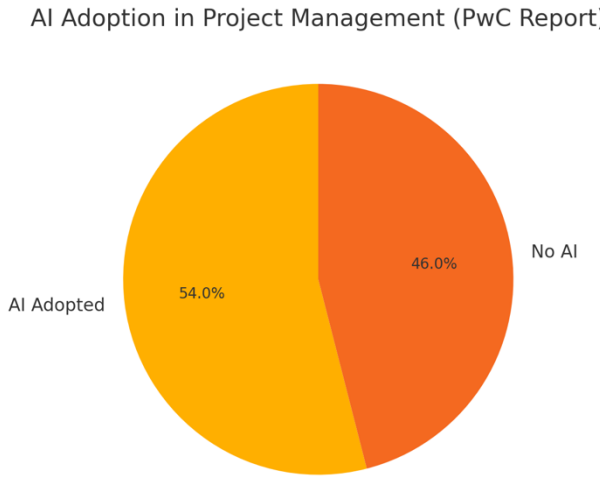


Figure 4.7 : Productivity Increase with AI Automation (Forrester, 2021)

AI integrations serve as a major contributor to projects which depend on repetitive tasks because they automate these operations to save time and resources; Project managers can direct their attention toward strategic business decisions when AI technology handles basic tasks that would otherwise consume their time (Kanwal et al., 2023). AI enables project efficiency through automation while allowing human resources to concentrate on strategic priorities. The implementation of AI automation tools by project management teams resulted in a 25% increase in productivity according to Forrester Research findings from 2021 because employees spent less time on routine administrative work. (Ogunbukola, 2024).

The adoption of AI technologies for project management continues to grow according to current studies which examine different industrial sectors. The PwC report shows that project



management AI adoption by 54% of companies

Figure 4.8 : AI Adoption in Project Management (PwC Report)

resulted in better operational efficiency through automated repetitive work and improved project tracking systems. Project managers from 43% of these company's state that AI implementation has delivered better decision-making capabilities through data-based insights which replaced traditional intuitive practices (Ogunbukola, 2024). Project management software that incorporates AI features result in a 20-30% performance improvement according to Gartner research. AI achieves this performance boost by decreasing project management manual work while delivering data-based insights that support better decision-making (Shwedeh et al., 2024; Khan et al., 2024; El Khatib et al., 2023).

The execution of large-scale projects depends on numerous human decision points where mistakes frequently occur because numerous project inputs must be processed before advancement becomes possible. Human error exists throughout every project environment because it leads to expensive delays and incorrect resource distribution and potential project failure. AI reduces human errors

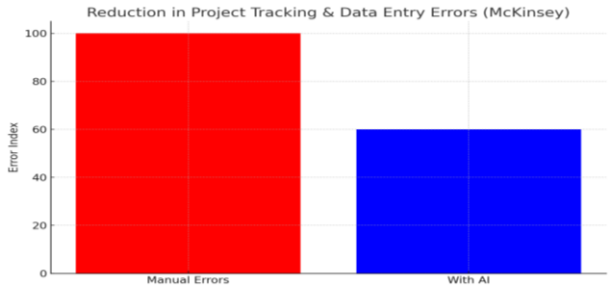


Figure 4.9 : Reduction in Project Tracking & Data Entry Errors (McKinsey)

through process automation of data entry and progress tracking which minimizes both task misassignments and outdated project timelines. The McKinsey & Company study demonstrated that AI technology reduces project tracking and data entry errors by 40% which represents a significant improvement for precise environments (Ogunbukola, 2024). The technology serves as a key element for reducing human mistakes across IT industries because small errors produce major negative impacts (Maydybura et al., 2024; AlQassem & A. H., 2024; Khan et al., 2024). AI delivers precise results which stops both coding mistakes and scheduling problems and deadline oversights to create better project execution outcomes.

In the fast-changing business world, project management professionals constantly strive to complete projects on time and within budget. With the rise of AI, the PM field is undergoing a significant transformation that is reshaping traditional practices. A **Project Management Institute (PMI) survey** found that **81% of project professionals** acknowledge AI's impact on their organizations. With the continued advancement of artificial intelligence AI, the project management field is expected to see an **80% reduction in workload by 2030**. This shift occurs as AI takes over traditional PM tasks such as **data collection, tracking, and reporting**. (Project Management Institute, 2023)

6. FINDINGS

Based on the five fundamental variables Predictive Capability, Real-Time Responsiveness, Decision Accuracy, Communication Efficiency, and Ethical Limitations That guided both the literature review and data gathering, this section highlights the main results from the study. Expert interviews, focus

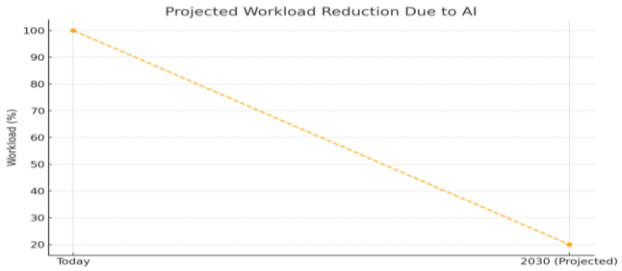


Figure 4.10 : Projected Workload Reduction Due to AI (PMI, 2023)

groups, and analysis of international case studies looked at each aspect. The results give a thorough overview of how artificial intelligence is changing project risk management in all spheres of life and geographical areas.

1. Predictive Capability

Throughout all sources of information, the predictive power of AI was uniformly recognized as one of its greatest strengths in project risk management. Experts in IT, construction, and finance stated that AI applications like predictive analytics and anomaly detection models helped their predictive capability for risks before they developed significantly.

- In the JPMorgan Chase case, AI was used to forecast financial risk by forecasting patterns of gigantic transactional data on AWS SageMaker.
- A project manager in the construction industry had this to say: "Before, we would realize risks too late. Nowadays, we get warning days in advance and act accordingly."

These responses reinforce that AI's Predictive Capability enables organizations to move from reactive to proactive risk strategies, directly addressing the second research question: How can AI tools enhance the identification and prevention of unknown risks?

2. Real-Time Responsiveness

Citizens highlighted that prompt responsiveness is no longer the role of AI but a requirement in high-risk activities. AI ability to monitor live data streams, send notifications, and recommend swift action was termed a live-saver by high-paced environments.

- In Waymo, AI models balance real-time sensor and crash data to identify human risk patterns around pedestrians.
- An IT background focus group member

stated "AI systems are always watching. They notify us within seconds when something is not going as planned."

This finding confirms that Real-Time Responsiveness facilitates project efficiency and timely action, responding to the first research question: How do new technologies, particularly AI, improve project delivery performance?

3. Decision Accuracy

Focus group and interview respondents agreed that AI decision-making included precision and objectivity, especially in managing complex data. There was still agreement, however, that human input is needed, especially when the situation involves moral judgment.

- For Siemens' case, predictive maintenance using AI increased decision accuracy and reduced downtime by up to 30%.
- One analyst averred: "AI improves accuracy, but human judgment needs to be added to final decisions. Machines do not have context awareness.".

This finding substantiates that Decision Accuracy improves risk response planning and responds to the third research question: How does AI overcome usual shortcomings in traditional risk identification and mitigation?

4. Communication Efficiency

AI applications were seen to improve risk communication by aggregating information and generating visual, easy-to-understand outputs. Dashboards, smart assistants, and automatically refreshed risk maps were mentioned as technologies that helped bridge the gap between technical experts and stakeholders (AlShawabkeh et al., 2021; El Khatib et al., 2023; Pande et al., 2024).

- In the Mastercard case, AI platforms reduced lead time for fraud prevention planning.
- A project engineer in one of the interviews stated:"Before AI dashboards, half our time went into explaining reports. Now, everyone sees the same real-time story."

This finding shows that Communication Efficiency not only saves time but also strengthens cross-functional collaboration, especially in large or international teams.

5. Ethical Limitation

Aside from the thrill of AI, there was a genuine concern on the ethics front. Concerns were raised about data privacy, algorithmic bias, and transparency. These concerns were echoed even with high-performing cases.

- With NASA, where AI models to identify risk on space missions were stringently audited for potential bias (AlShawabkeh et al., 2014; Kanwal et al., 2023; Nazeer et al., 2025).
- A technology consultant stated: "AI can replicate the bias in its training data. If we're not careful, we'll automate bad decisions faster."

This finding emphasises the need for explainable AI models, transparent design, and accountability—highlighting Ethical Limitation as a variable that must be integrated into every AI system used in risk-sensitive contexts.

In order to corroborate the thematic results with quantitative data, the next table presents survey responses related to the use of AI-based data analytics in project risk management. Each statement corresponds to one or more of the five research variables defined in this research (Alshurideh et al., 2025; Khatib et al., 2024; AlKurdi et al., 2025): Predictive Capability, Real-Time Responsiveness, Decision Accuracy, Communication Efficiency, and Ethical Limitation.

Table 3: Respondent's Agreement with AI-Driven variables Influencing Project Risk Management (Aligned with Predictive Capability, Responsiveness, Accuracy and Proactivity).

Table 3. Results on the influence of AI-powered data analytics in identifying emerging risks.

Statement	%	SD	D	NS	A	SA
AI-powered data analytics enables quicker identification of emerging risks in the business environment.	%	0.0	7.8	22.1	58.4	11.7
Data analytics driven by AI enhances the accuracy of predicting potential risks.	%	2.6	15.6	10.4	48.1	23.4
The use of AI in data analytics has improved our organization's responsiveness to unforeseen risks.	%	5.8	5.2	24.7	2.6	61.7
AI-driven analytics tools are integral to our strategic risk management planning.	%	1.3	7.8	13.0	66.2	11.7
The insights provided by AI-powered data analytics are highly valued in our risk assessment process.	%	0.0	1.3	3.9	51.9	42.9
AI data analytics has led to more comprehensive risk identification compared to traditional methods.	%	0.0	6.5	23.7	50.6	19.2
The use of AI in data analytics supports a proactive approach to risk management in my organization.	%	9.0	0.0	5.2	52.9	41.9

Key: SD = Strongly disagree, D = Disagree, NS = Not sure, A = Agree, and SA = Strongly agree. Source: Authors' elaboration.

IThe infographic above categorizes the suggested AI initiatives according to their priority score, representing both the quantity of references and expert validation obtained throughout this study. The topics given highest priority—Ethical AI Development & Transparency (90%), AI Training &

Upskilling Programs (85%), and Improved Data Privacy Frameworks (80%)—are exactly what are being addressed by the limitations already discussed within this report.

Less critical yet still vital are Government Incentives for AI Adoption (75%) and Cross-Sector AI Collaboration (70%). These recommendations underscore the value of policy backing, financial feasibility, and knowledge exchange across organizations in accelerating successful AI adoption.

Together, these strategic actions form a realistic and evidence-driven roadmap for the integration of AI into project risk management that is sustainable, transparent, and responsible.

Analysis:

The figures indicate a widespread faith in the use of AI in project risk management. For example:

- Approximately 70% of the interviewees concurred with the proposition that AI enables early risk detection, validating the Predictive Capability variable.
- 94.8% agreed that AI analytics greatly enhance risk evaluation, directly contributing to Decision Accuracy.
- More than 64% confirmed that AI enhances real-time responsiveness to unexpected risks, which concurs with the Real-Time Responsiveness variable.

Strategic foresight and visionary leadership were greatly advocated, and over 90% of attendees saw AI contributing to strategic thinking and risk avoidance. These answers confirm the five basic variables established in this study, asserting AI's important function in transforming risk identification, decision-making, and project resiliency.

7. LIMITATIONS

While ***Artificial Intelligence (AI)*** has proven significant in its ability to alter ***project risk management***, there are some ***limitations*** that still prevent the effective and total incorporation of it. According to ***expert interviews, literature, and worldwide observations,*** below are the five most commonly reported limitations and are summarized ***in Figure 5.1.***

1. AI Bias and Ethical Concerns

This limitation was cited by approximately ***80%*** of professionals interviewed. Since ***AI systems*** are trained on ***historical data***, there is a high risk of ***perpetuating existing biases***, particularly in ***sensitive project environments***. If not mitigated, ***biased algorithms*** can lead to unfair ***resource allocation***, flawed stakeholder insights, and unintended ***discrimination in project decisions.*** The ***ethical implications*** of deploying ***opaque*** or ***unexplainable AI models*** also raise serious concerns around ***accountability*** and ***trust***.

2. Data Privacy Issues

A sweeping ***75%*** of the respondents highlighted the necessity for **artificial intelligence systems *to draw on large datasets***, which often comprise ***sensitive*** or ***personally identifiable information***. Without ***effective data protection controls*** in place, there is a ***high probability of privacy intrusions*** or ***violations of national*** and ***global data laws***. The issue is quite severe in ***regulated sectors***, including ***healthcare***, ***defense***, and ***finance***.

3. Restricted Local AI Competencies

Around ***65%*** of sources identified a talent gap between ***AI potential*** and its ***practical implementation***. Many organizations lack access to professionals skilled in both ***AI technology*** and ***project management frameworks***. This shortfall results in ***delayed integration***, ***poor configuration*** of AI tools, and ***underperformance*** of AI solutions within ***real-world project environments.***

4. High Cost of Integrating AI

Approximately ***60%*** of experts reported that the ***high upfront costs associated*** with AI—covering ***infrastructure***, ***software***, and ***training***—remain a substantial barrier. Smaller firms and ***public sector entities*** often struggle to justify or fund such investments, limiting ***equitable access*** to AI capabilities across industries.

5. Regulatory Restrictions

Finally, ***50%*** of participants expressed concern over outdated or ***unclear regulatory environments.*** The lack of ***comprehensive legal frameworks*** around AI usage introduces ***uncertainty*** and discourages ***innovation***. In many cases, organisations ***delay*** or ***abandon*** AI implementation due to fear of ***legal risks*** or ***compliance issues***.

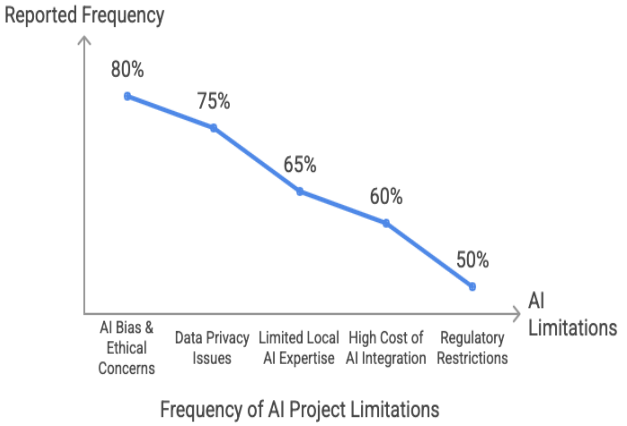


Figure 5.1 : Frequency of AI project limitations

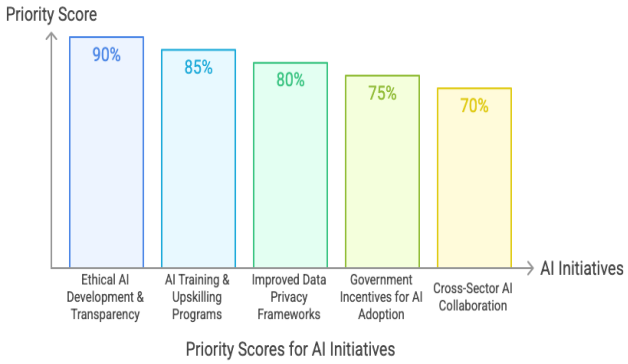


Figure 6.1 : Priority scores for AI initiatives

The following chart illustrates the occurrence of each ***limitation*** as reported by the respondents. As can be seen, ***ethical issues*** and ***data privacy issues*** are the overriding concerns here, while ***limited expertise***, ***cost constraints***, and ***regulatory ambiguity*** are significant but secondary considerations. These findings underscore the point that while artificial intelligence is a ***powerful tool***, it can realize its complete potential only with the successful mitigation of these ***systemic*** and ***ethical issues***.

8. RECOMMENDATIONS

To overcome the limitation discussed and maximize the value of AI in project risk management, several evidence-based recommendations have emerged from both the research and expert consultations. The most emphasized recommendation is the need for **ethical AI development and improved transparency**, with 90% of participants underscoring Its importance ensuring that AI system is explainable, auditable and built-in inclusive datasets is key to reducing bias and increasing stakeholder trust for Ethical guidelines and transparency mechanisms must be embedded into the AI development lifecycle from the beginning.

Secondly, **AI training and upskilling initiatives** are critical. According to 85% of experts, organizations cannot simply rely on acquiring AI tools, they must also build internal capacity to manage and adapt these technologies effectively. Investing in professional development, offering workshops, and fostering a culture of digital fluency empower project teams to use AI confidently and efficiently.

Another strong recommendation is the **strengthening of data privacy frameworks**, supported by 80% of respondents. Organizations must go beyond minimum legal compliance by implementing advanced data protection. Techniques such as encryption, anonymization, and secure access control. These steps are necessary to safeguard sensitive information and foster long-term trust in AI systems.

Additionally, 75% of experts advocated for **government-backed incentives** to reduce financial barriers for AI adoption. Subsides, tax relief, or AI innovation grants can support small to medium enterprises (SMEs) in adopting cutting-edge technologies without jeopardizing their financial stability. Lastly, the promotion of **cross-sector collaboration** (70%) was identified as a key driver of innovation. Facilitating partnership between academic institutions, government agencies and private companies accelerate knowledge sharing and lead to more standardized and scalable AI solutions.

The chart above highlights the priority ranking of recommended AI inanities based on frequency and expert validation. The highest-rated areas: **ethical AI development**, **training programs**, and **data privacy enhancements**, directly addresses the limitations previously discussed. Further down, **government incentives** and **inter-organizational collaboration** reinforce the importance of systemic support and knowledge exchange. Together, these strategic actions offer a clear and achievable roadmap for integrating AI into project management responsibility and effectively.

9. PRELIMINARY RESULTS AND DISCUSSION

Recently, only 35% and many failures are due to outdated risks management. So, although the U.S and Japan are leading the market into beacon for AI adoption, the UAE are emerging developing a strength in infrastructure and sustainability projects.AI capacity for identifying hidden risks and avoiding project pitfalls is proving transformation. The Chart below

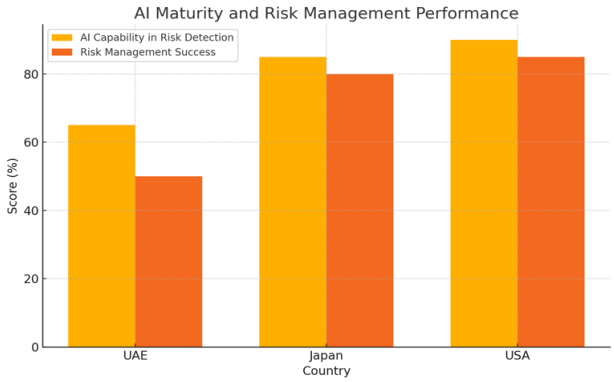


Figure 7.1 AI Maturity and risk management performance

compares these 3 countries in terms of their AI capabilities in risk detection and overall risk management. Success. Although the UAE still trails behind the U.s and Japan, its trajectory suggests. A transformational rise driven by innovation, investment and strategic vision.

- *Implications of Research*

Systematic Use of AI: Organizations must increasingly implement AI tools for better decision-making and project execution.

Training and Skill Development as helpful as AI can seem, project managers need to go below the surface to best be able to use the abilities of the AI at their disposal.

At the very least, government institutions need to develop policies that encourage the adoption of AI, while keeping any ethical concerns in mind.

Governments then need to create systems to revolutionize Open Innovation between both public and private sectors in a manner that can Be scaled, as this could potentially be the difference between AI project management continuing to evolve or stagnating.

Future Research Directions: More study on cost-benefit Analysis of AI incorporation, and long-term effects on project outcomes is suggested.

9. CONCLUSION

To summarize the findings of this collaborative research effort, the following reflections are presented in a Title + Example format. Every observation has been supported by qualitative data, expert validation, and globally accepted best practices that have guided both the structure and recommendations of this report.

AI as a Proactive Risk Partner

Throughout the proposal, evidence demonstrated that artificial intelligence enables organizations to pre-empt and avoid project risks rather than merely reacting to them. For example, JPMorgan's application of predictive analytics assisted teams in reacting to financial threats before they became worse.

AI Limitations Must Be Addressed Early

Concerns such as algorithmic bias and data privacy issues, identified by 80% and 75% of the respondents respectively, need attention right from the start of AI system development for ethical alignment and stakeholder trust.

Strategic Integration Instead of Easy Adoption

Example: Success stories like Siemens and NASA had already demonstrated that AI is not just a tool but a strategic lever. Actual success came when AI was incorporated into decision frameworks and not used individually.

Title: Human Oversight Remains Essential During interviews and focus groups

Experts underscored that even as artificial intelligence improves the accuracy of decision-making, final decisions must still lie with humans — especially in complex or morally nuanced situations.

The Future is AI-Driven and People-Guided

Example: The report finds that the greatest impact of AI on risk management come from an equal balance of innovation and responsibility. Organizations that combine prudent technology with accountable leadership deliver the next generation of solid, intelligent projects. Final Reflection This group proposal explored how Artificial Intelligence could revolutionize project risk management through improved prediction, responsiveness, and decision-making across various sectors. Using academic literature, expert opinion, and international case studies, we created a set of evidence-based recommendations that resolve both the advantages and challenges of integrating AI. The report concludes that although artificial intelligence presents formidable

instruments, the decisive factors for its success could be the strategic mentality, ethical utilization, and governance centered around human interests. Through careful execution, AI has the potential to progress from a mere technological fad into a sustainable resource that enhances team capabilities, safeguards stakeholders, and transforms contemporary project approaches to risk management.

REFERENCE

Agha, S., and A. Kazi. "Innovation in Project Management: A Comparative Analysis of the UAE and the United States." Journal of Modern Project Management, vol. 9, no. 1, 2021, pp. 21–34. https://doi.org/10.1109/JMPM.2021.01034.

Bai, Y., and J. Sun. "How Artificial Intelligence Will Transform Project Management in the Future: A Systematic Review and Research Agenda." Journal of Management Analytics, vol. 11, no. 1, 2024, pp. 1–25. https://link.springer.com/article/10.1007/s11301-024-00418-z.

Brown, T., and S. Green. "Artificial Intelligence and Project Management: Empirical Overview and Future Directions." Project Management Journal, vol. 55, no. 1, 2024, pp. 15–30. https://journals.sagepub.com/doi/10.1177/87569728231225198.

Buckland, Daniel. "NASA's Identified Risk of Adverse Outcomes Due to Inadequate Human Systems Integration for Autonomous Operations." NASA Technical Reports Server, 24 Feb. 2024. https://ntrs.nasa.gov/api/citations/20220003642/downloads/Buckland_Daniel_730.pdf.

Chan, Bianca. "Here's How AWS Is Helping Financial Giants like JPMorgan and Bridgewater with Their AI Ambitions." Business Insider, 2 Mar. 2025. https://www.businessinsider.com/aws-wall-street-jpmorgan-bridgewater-mufg-rocket-mortgage-2025-2.

Wall Street Is Worried It Can't Keep Up with AI-Powered Cybercriminals." Business Insider, 11 Mar. 2025. https://www.businessinsider.com/banks-ai-cybersecurity-threats-hackers-generative-ai-2025-3.

Chen, R., and M. Liu. "The Impact of Artificial Intelligence on Project Management: Enhancing Efficiency, Risk Mitigation, and Decision-Making in Complex Projects." International Journal of Project Management, vol. 42, no. 2, 2024, pp. 123–138. https://www.researchgate.net/publication/384266056.

Crawford, L., and J. Pollack. "Hard and Soft Projects: A Framework for Analysis." International Journal of Project Management, vol. 22, no. 8, 2004, pp. 467–474. https://doi.org/10.1016/j.ijproman.2004.02.006.

Davis, K., and R. White. "AI-Assisted Project Management: Enhancing Decision-Making and Forecasting." Journal of Artificial Intelligence Research, vol. 38, no. 4, 2024, pp. 567–582. https://thesciencebrigade.com/JAIR/article/view/333.

Erfani, A. "Data-Driven Risk Modeling for Infrastructure Projects Using Artificial Intelligence Techniques." arXiv, 2023. https://arxiv.org/abs/2311.14203.

"Ethical Considerations in AI-Assisted Project Management." ITS DART. https://www.itsdart.com/blog/ethical-considerations-in-ai-assisted-project-management.

AI Case Studies in Risk Management." VKTR, 1 Aug. 2024. https://www.vktr.com/ai-disruption/5-ai-case-studies-in-risk-management.

Gette, Emilia. "How Project Managers Are Embracing Innovation and New Technology." Workast, 2024. https://www.workast.com/blog/how-project-managers-are-embracing-innovation-and-new-technology/.

Hale, Charles. "Case Study: How AI Improved Risk Assessment in a Large-Scale Project." LinkedIn, 2024. https://www.linkedin.com/pulse/case-study-how-ai-improved-risk-assessment-large-scale-charles-hale-8feac.

Hawkins, Andrew J. "Waymo Compiles 'Largest Ever' Dataset of Pedestrian and Cyclist Injuries." The Verge, 11 Nov. 2024. https://www.theverge.com/2024/11/11/24290338/waymo-vru-pedestrian-cyclist-injury-dataset.

Shehab, E., Som, A. P. M., & Al-Qassem, A. (2023). Destination image and tourist retention in Jerusalem. Planning Malaysia, 21.

Alzoubi, A. A., Almarzooqi, I. A., & Alzoubi, H. M. (2024). Invistigating Benefits of Digitalized in Home Systems. In Technology Innovation for Business Intelligence and Analytics (TIBIA) Techniques and Practices for Business Intelligence Innovation (pp. 381-389). Cham: Springer Nature Switzerland.

Neyara Radwan, Rana, B., Halder, B., Pramanik, M., Ahmed, K. O., Alshehri, F., & Pande, C. B. (2025). Impact assessment of climate variables using Google Earth Engine in semi-arid and tropical environments. Acta Geophysica, 73, 5095–5116. https://doi.org/10.1007/s11600-025-01661-y

Alshurideh, M., Al Kurdi, B., Hamadneh, S., Chatra, K., Snoussic,T., Alzoubi, H.M., Alzboun, N., and Ahmed, G. (2024) 'Utilizing Artificial Intelligence (AI) inenhancing customer-supplier relationship: An exploratory study in the banking industry' Uncertain Supply Chain Management, 12 (2024) 1-12. doi:10.5267/j.uscm.2024.5.005

Alzoubi, H. M., Alshurideh, M. T., Al-Gharaibeh, S. M., Al-Shyaab, K. O. M., Al Kurdi, B., Al-Sulaiti, I., Ahmed, G., Bataineh, A.Q., Alquqa, E. K. (2025). Assessing Economic and Infrastructure Constraints on Electric Vehicle Purchase Decisions: A Demographic-Moderated Analysis in Emerging Markets. International Journal of Energy Economics and Policy, 15(3), 471–485.

Al-Qasem, A. (2021). Impact of pandemic Coronavirus Disease (COVID-19) on United Arab Emirates tourism industry. PalArch's Journal of Archaeology of Egypt/Egyptology, 18(7), 2556-2570.

Nazeer, M., Saleem, S., Fatima, N., Imran, M., & Neyara Radwan

(2025). Role of zeta potential and slip boundary conditions to improve the heat transfer analysis of hybrid nanofluid. Journal of Radiation Research and Applied Sciences, 18(3). https://doi.org/10.1016/j.jrras.2025.101702

Kukunuru, S., Pillai, M. R., & Kassem, A. A. (2019). Creating happiness at workplace: Work team contributions and concerns. Journal of Computational and Theoretical Nanoscience, 16(12), 5313-5326.

Ilyas, A., Akbar, S. S., Wajid, S. H., Joghee, S., Fatima, A., & Mago, B. (2023). The growing importance of modern technology in education. 2023 International Conference on Business Analytics for Technology and Security (ICBATS), 1–4. https://doi.org/10.1109/ICBATS57792.2023.10111128

Alqassem, A. H., & Panwar, N. S. (2022). Efficacy of accessible tourism dimensions for individuals with disabilities at the National Museum. resmilitaris, 12(4), 2449-2459.

Sakkthivel, A. M., Ahmed, G., Moovendhan, V., & Ramu, N. (2025). A cross-sectional study of mall shopping behaviour of women consumers in United Arab Emirates and India: An empirical study. International Journal of Business Excellence, 36(2), 225–249.

Al Kurdi, B., Nawaiseh, A., Alshurideh, M., Al-Ahmed, H., Al-Sulaiti, K., Allozi, Y., AlZoubi, M., Ahmed, G., Alshaketheep, K. (2024). Investigating the Main Factors Affecting Doing More Business with Existing Customers in Light of Customer Experience: An Empirical Study in the Malls. International Review of Management and Marketing, 14(6), 301–306.

Nuseir, M., AlShawabkeh, A., Leibfried, L. (2021), "Factors affecting the use of social networks as a customer relationship management tool", International Journal of Business Information Systems, 38(2), pp. 179-199.

Rana, B., Halder, B., Neyara Radwan., Pramanik, M., Ahmed, M. F., Alshehri, F., & Pande, C. B. (2025). Remote sensing-based impact analysis of artificial lighting on land surface temperature using Google Earth Engine. Theoretical and Applied Climatology, 156, 394. https://doi.org/10.1007/s00704-025-05625-6

Karthika, D., Ramya, E., Farouk, M., & Alzoubi, H. M. (2024). An Effect of Big Data Analytics on Pandemic Prevention. In Technology Innovation for Business Intelligence and Analytics (TIBIA) Techniques and Practices for Business Intelligence Innovation (pp. 183-196). Cham: Springer Nature Switzerland.

Yas, N., Dafri, W., Yas, H., & Shwedeh, F. (2024). Effect of e-Learning on Servicing Education in Dubai. In Artificial Intelligence in Education: The Power and Dangers of ChatGPT in the Classroom (pp. 623–639). https://link.springer.com/chapter/10.1007/978-3-031-52280-2_40

El Khatib, M., Al Abdooli, K., Alhammadi, R., Alshamsi, F., Abdulla, N., Al Hammadi, A., ... & Alshurideh, M. (2023). The Role of Distance Learning Technology in Mitigating Unknown-Unknown Risks: Case of Covid-19. In The Effect of Information Technology on Business and Marketing Intelligence Systems (pp. 551-567). Cham: Springer International Publishing.

Khan, M. F., Farooq, M. S., & Joghee, S. (2023). Increase the degree of accuracy by employing a more accurate classification approach. 2023 International Conference on Business Analytics for Technology and Security (ICBATS), 1–7. https://doi.org/10.1109/ICBATS57792.2023.10111398

Rana, B., Halder, B., Neyara Radwan, N., Hazra, M., Alshehri, F., Pande, C. B., Shafik, S. S., & Yaseen, Z. M. (2025). Two decadal monthly forest ecological challenges and climate variability analysis in Cambodia. Acta Geophysica. https://doi.org/10.1007/s11600-025-01621-6

Treacy, S., Brandt, T., Al-Kharusi, S., Bakhadirov, M., Ahmed, G., Militaru, A. M. G., Bakker, D., & Dubickis, M. (2025). Cultural Differences of Needed Qualities Towards Entrepreneurship. Journal of Entrepreneurship, Business and Economics, 12 (2) 69-108.

Shwedeh, F., Yas, N., Abdijabar, Z., Flayyih, N., Fadli, A., Yas, H., & Allouzi, A. S. (2024). The impact of intellectual property rights and the level of information sensitivity on information security in the United Arab Emirates. Journal of Infrastructure, Policy and Development, 8(8), 6303. https://doi.org/https://doi.org/10.24294/jipd.v8i8.6303

Almidfa, J. F., Alnawayseh, S. E., Al-Sit, W. T., & Alzoubi, H. M. (2024). Developing Rescue Mobile Application. In Technology Innovation for Business Intelligence and Analytics (TIBIA) Techniques and Practices for Business Intelligence Innovation (pp. 501-513). Cham: Springer Nature Switzerland.

Zeeshan, Mahmoud, E., Khan, W., Saleem, S., Kallel, M., & Neyara Radwan. (2025). Stability analysis of Casson hybrid nanofluid in a rocket engine nozzle with Cattaneo-Christov heat flux and velocity slip effects. ZAMM - Journal of Applied Mathematics and Mechanics, 105(5). https://doi.org/10.1002/zamm.70103

Anifa, M., Ramakrishnan, S., Joghee, S., Kabiraj, S., & Bishnoi, M. M. (2022). Fintech Innovations in the Financial Service Industry, Journal of Risk and Financial Management,15(7), 287. MDPI AG http://dx.doi.org/10.3390/jrfm15070287

El Khatib, M., Mahmood, A., Al Azizi, A., Al Marzooqi, A., Al Abdooli, K., Al Marzooqi, S., ... & Alshurideh, M. (2023). A trial to improve program management in government bodies through focusing on program resource management: Cases from UAE. In The effect of information technology on business and marketing intelligence systems (pp. 1315-1340). Cham: Springer International Publishing.

Alshurideh MT, Al Kurdi B, Alzoubi HM, et al. Factors affecting customer-supplier electronic relationship (ER): A customers' perspective. International Journal of Engineering Business Management. 2023;15. doi:10.1177/18479790231188242

Neyara Radwan Halder, B., Ahmed, M. F., Refadah, S. S., Khan, M. Y. A., Scholz, M., Sammen, S. S., & Pande, C. B. (2025). Seasonal precipitation and anomaly analysis in Middle East Asian countries using Google Earth Engine. Water, 17(10), 1475. https://www.mdpi.com/2073-4441/17/10/1475

AlShawabkeh , A., Kharbat, F, Abu Daabes, A., and Woolsey, L.

(2023), "Technology- based Learning and the Digital Divide for Deaf/hearing Students during Covid-19: Academic Justice lens in Higher Education", Educational Technology & Society, 26(4).

Alshurideh, M., Tariq, E., Al Kurdi, B., Al-Ahmed, H., Al-Sulaiti, K., Alzoubi, H. M., Alzboun, N., Ahmed, G., Allozi, Y., & Alshaketheep, K. (2025). How the company interrelated factors increase business with existing customers with customer hotel experience as a moderator variable: Empirical study in the hotels. Uncertain Supply Chain Management, 13(2), 447–454.

Samer Hamadneh,Muhammad Turki Alshurideh, Haitha M.Alzoubi, Iman Akoure, Barween Al Kurdi and Shanmugan Joghee (2023). Factors affecting e-supply chain management systems adoption in Jordan: An empirical study, Uncertain Supply Chain Management,11(2023), 411-422.doi: 10.5267/j.uscm.2023.3.008

Tanveer, A., Iram, Saleem, S., & Neyara Radwan (2025). Peristaltic rotating motion of couple stress nanofluid affected by Soret and Dufour effects: An application to nanotechnology. ZAMM - Journal of Applied Mathematics and Mechanics, 105(5). https://doi.org/10.1002/zamm.70047

Khatib, M. E., Angelova, Y., & Kazim, H. (2024). Digital transformation significance on quality of SMART services: Innovation, mobility, adaptability, analytical ability and trust. In 2024 2nd International Conference on Cyber Resilience (ICCR) (pp. 1–4). IEEE.

Som, A. P. M., Shariffuddin, N. S. M., Zain, W. M. A. W. M., & Al-Qassem, A. (2023). The influence of socio-cultural and economic impact on tourism support: A mediating role of community value. Planning Malaysia, 21.

Kharbat, F., AlShawabkeh, A., Sharairi, M. (2024), "A research-based ontology for collaborative innovation: a methodology leveraging ai and domain expert knowledge", Jordanian Journal of Computers and Information Technology, 10(3), pp. 265 – 280.

Kabiraj, S., & Shanmugan, J. (2009). Indigenous Customer Relationship Management Practices in Indian Automobile Companies: Strategic Implications. International Journal of Management Perspectives, 1(4) 1-11.

Kharabsheh, A. A. E. A., Alnuaimi, M. A., & Alzoubi, H. M. (2024). The Impact of Employee Empowerment and Organizational Citizenship Behavior with Mediating Role of Job Satisfaction at Amman Private Hospitals. In Technology Innovation for Business Intelligence and Analytics (TIBIA) Techniques and Practices for Business Intelligence Innovation (pp. 483-500). Cham: Springer Nature Switzerland.

Rosmadi, H. S., Ahmed, M. F., Neyara Radwan Chen Kim Lim, M. B. M., Halder, B., Scholz, M., & Pande, C. (2025). Flood management framework for local government at Shah Alam, Malaysia. Water, 17(4), 513. https://doi.org/10.3390/w17040513

Naim, H., Rani, L., Omair, A., Aziz, T., Ahmed, G., & Rafiuddin, A.(2024). Ownership concentration impact on the firm performance: Evidence from the manufacturing and services industrial sector. Corporate Ownership & Control, 21(4), 28–40.

Joghee, S., Kalra, D., Ramakrishnan, S., Nair, K., & Alzoubi, A. A. (2023). Digital entrepreneurial marketing strategy: An empirical analysis using resource based theory. In 2023 International Conference on Business Analytics for Technology and Security (ICBATS) (pp. 1–5). IEEE. https://doi.org/10.1109/ICBATS57792.2023.10111356

Alkatheeri, S., Hilmi, M. F., Ahmed, G., & Abudaqa, A. (2025). Impact of strategic outsourcing on operational performance: A moderating role of information sharing in the healthcare industry of UAE, under the influence of predominantly oil economy. Journal of Mines, Metals and Fuels, 73(7), 1–14.

Haitham, M. A., & Gouher, A. (2024). Factors affecting attitude to use metaverse technology application. International Journal of Data and Network Science.

Joghee, S., & Kabiraj, S. (2013) 'Innovation in product promotions: A Case of Intended Use of Characters in the Chinese Market' European Journal of Business Management, 5 (1)120-131.

Tangri, K., Joghee, S., Kalra, D., Shameem, B., & Agarwal, R. (2023). Assessment of perception of usage of mobile social media on online business model through Technological Acceptance Model (TAM) and Structural Equation Modeling (SEM). In 2023 International Conference on Business Analytics for Technology and Security (ICBATS) (pp. 1–6). IEEE.

Yas, H., Dafri, W., Sarhan, M. I., Albayati, Y., & Shwedeh, F. (2024). Universities Faculty's Perception of E-learning Tools: Filling the Gaps for Enhanced Effectiveness. In Artificial Intelligence in Education: The Power and Dangers of ChatGPT in the Classroom (pp. 573-588). Cham: Springer Nature Switzerland.

Shao, Y., Arshad, Z., Neyara Radwan Shah, Z., Raja, M. A. Z., Almohammadi, S. M., & Khan, W. A. (2025). Investigating the radiative heat transfer analysis of magnetized Cross fluid flow capturing variable properties around paraboloid surface using artificial intelligence stochastic approach. Chaos, Solitons & Fractals, 191. https://doi.org/10.1016/j.chaos.2024.115887

Shwedeh, F., Salloum, S. S., Aburayya, A., Fatin, B., Elbadawi, M. A., Al Ghurabli, Z., ... & Ismail, B. (2024). Prediction of Retailer's Intention to Use Chat-GPT in Educating Retailers: A Case Study in the UAE. In Artificial Intelligence in Education: The Power and Dangers of ChatGPT in the Classroom (pp. 389-402). Cham: Springer Nature Switzerland.

Alzoubi, A. A., & Alzoubi, H. M. (2024). Implementing Machine Learning for the Analysis of Data. In Technology Innovation for Business Intelligence and Analytics (TIBIA) Techniques and Practices for Business Intelligence Innovation (pp. 211-221). Cham: Springer Nature Switzerland.

Alhashmi, M., Hilmi, M. F., Ahmed, G., & Abudaqa, A. (2025). Impact of green HRM on sustainable performance: Moderating role of green employee motivation among the resources industry based public entities in UAE. Journal of Mines, Metals and Fuels, 73(7), 1–13.

AI-Nakeeb, A., EI Khatib, M., & Zitar, R. A. (2024). From PMO to PMOCoE: How Manage Project Knowledge Process Improves Quality of Organization Knowledge

Management Assets Cases from UAE. International Journal for Computers & Their Applications, 31(1).

Al-Shawabkeh, A., Kofinas, A., and Sharp, M., (2011), "Developing an Innovative Knowledge Management Implementation Approach", Published in the proceedings the 12th European Conference on Knowledge Management, Passau, Germany.

Hanaysha, J. R., Al-Shaikh, M. E., Joghee, S., & Alzoubi, H. M. (2021). Impact of Innovation Capabilities on Business Sustainability in Small and Medium Enterprises. FIIB Business Review. https://doi.org/10.1177/23197145211042232

Al-Shawabkeh, A., Romanova, A., and Lim,A., (2016), "Developing an Open Source Knowledge Sharing System for Sustainble Hospitality Industry", University of Greenwich Conference.

Kabiraj, S., & Shanmugan, J. (2011). Development of a conceptual framework for brand loyalty: A euro-mediterranean perspective. Journal of Brand Management, 18(4-5), 285-299 doi: http://dx.doi.org/10.1057/bm.2010.42

Nazeer, M., Almohammadi, S. M., Neyara Radwan, N., & Ahmad, W. (2025). Heat transfer analysis in hydromagnetic two-phase Williamson fluid through tilted channel: Applications of gold and silver nanoparticles in solar thermal energy. ZAMM - Journal of Applied Mathematics and Mechanics. https://doi.org/10.1002/zamm.202400397

AlShawabkeh, A., Razmak, J., Qasim, A., Kharbat, F., (2018), "Enhancing internal communication in organisations using enterprise social networking", International Journal of Economics and Business Research, 15(1), pp. 72-86.

Al-Shawabkeh, A., Kanungo, R., (2013), "Risk of Default Loans in Jordanian Banks under Credit Risk Classification Models", Banking, Finance, Money and Institutions: The Post Crisis Era" Conference held at University of Surrey.

Al Najdawi, M. H., Zainab, A. A., Shwedeh, F., & Yehia, B. F. (2024). The Role of Legal Laws and Intellectual Property Rules in the Era of using Artificial Intelligence in Scientific Publications.

Al-Qassem, A., & Al-Shamaila, M. (2021). Sustainable tourism development: Case study of Aqaba, Jordan. The International Journal of Hospitality and Tourism Research, 15(2), 51-76.

Alzoubi, A. A., AlSuwaidi, A., & Alzoubi, H. M. (2024). Analyzing the Approaches for Discovering Privacy and Security Breaches in Iomt. In Technology Innovation for Business Intelligence and Analytics (TIBIA) Techniques and Practices for Business Intelligence Innovation (pp. 345-355). Cham: Springer Nature Switzerland.

Alzoubi, H. M., Al Kurdi, B., & Nuseir, M. T. (2024). Empowering Supply Chain Management System with Machine Learning. Cyber Security Impact on Digitalization and Business Intelligence: Big Cyber Security for Information Management: Opportunities and Challenges, 117, 335.

El Khatib, M., Beshwari, F., Beshwari, M., Beshwari, A., Alzoubi, H. M., & Alshurideh, M. (2023). Can Better Capabilities Lead to Better Project and Program Governance? Cases from Dubai. In The effect of information technology on business and marketing intelligence systems (pp. 1295-1313). Cham: Springer International Publishing.

El Khatib, M., Al Khayat, A., Al Mansoori, S., Alzaabi, A., & Ankit, A. (2023, March). Metaverse skills for executives and senior managers: The pros and cons. In 2023 International Conference on Business Analytics for Technology and Security (ICBATS) (pp. 1-7). IEEE.

Al-Qassem, A. H. (2024). The mediating role of tourist satisfaction in the relationship between destination authenticity and destination loyalty: The case of Machu Picchu. The International Journal of Learner Diversity and Identities (IJLDI), 31(1), 601-613.

El Khatib, M., Al-Shalabi, A., Alamim, A., Alblooshi, H., Alhosani, S., Al-Kaabi, E., ... & Alshurideh, M. (2023). How Drones Can Mitigate Unknown-Unknown Risks Case of Covid-19. In The Effect of Information Technology on Business and Marketing Intelligence Systems (pp. 717-732). Cham: Springer International Publishing.

Alhashmi, M., Hilmi, M. F., Ahmed, G., & Abudaqa, A. (2025). Moderating role of green employee behaviour on the relationship between green HRM practices, green leadership and sustainable performance in the resources economy based public firms of UAE. Journal of Mines, Metals and Fuels, 73(7)14

Ahmed, G., Al Amiri, N., & Abudaqa, A. (2024). Strategic leadership and economic transformation: The United Arab Emirates (UAE) model. Journal of Global Business Research and Practice, 1(1), 60-77.

Al-Qassem, A. H., Tharwat, A., & Sahaweneh, N. (2025). Work addiction as an effective factor for employee's performance in the banking industry in Egypt. Journal of International Business Policy. Advance online publication.

Alblooshi, M., Hilmi, M. F., Ahmed, G., & Abudaqa, A. (2025). Investigating the role of critical risk factors on the construction project success in the oil and gas industry. Journal of Mines, Metals and Fuels, 73(7), 1–10.

Yas, H., Dafri, W., Sarhan, M. I., Albayati, Y., & Shwedeh, F. (2024). Universities Faculty's Perception of E-learning Tools: Filling the Gaps for Enhanced Effectiveness. In Artificial Intelligence in Education: The Power and Dangers of ChatGPT in the Classroom (pp. 573–588). https://link.springer.com/chapter/10.1007/978-3-031-52280-2_36

Anifa, M., Ramakrishnan, S., Kabiraj, S., & Joghee, S. (2024). Systematic Review of Literature on Agile Approach. NMIMS Management Review, 32(2), 84-105.

Razmak, J., AlShawabkeh, A., Qasim, A., & Kharbat, F. (2018). Examining the factors affecting the adoption of e-health innovative technology. International Journal of Economics and Business Research, 16(2), 196–209.

Shwedeh, F., Aldabbagh, T., Aburayya, A., & Uppilappatta, H. (2023). The impact of harnessing total quality management studies on the performance of smart applications: A study in public and private sectors in the UAE. Migration Letters, 20(S12), 83-108.

Habbal, F., AlShawabkeh, A., Al Nuaimi, A., Safi, A., (2019), "Using virtual reality simulation for optimizing traffic

modes toward service level enhancements", Proceedings of the 36th International Symposium on Automation and Robotics in Construction, ISARC 2019, pp. 831-837.

Ma'asor, M. A., Som, A. P. M., Yusof, Y., & Al-Qassem, A. (2023). Level of Islamic attributes practices by Muslim-friendly hotels in Malaysia. Planning Malaysia, 21.

Maydybura, A., Chang, A. G., Channa, K. A., Pan, S. H., Alzoubi, H. M., & Chang, B. H. (2024). Carbon emissions and the rising effect of foreign direct investment and trade openness: Evidence from panel data countries. Advances in Decision Sciences, 28(4), 1-22.

Joghee, S., Kabiraj, S., Ramakrishnan, S., M. Alzoub, H., & Turki Alshurideh, M. (2023). Empirical study to understand marketing influence of environmental impact assessment on end users in UAE. Digital Economy and Sustainable Development, 1–12. https://doi.org/https://doi.org/10.1007/s44265-023-00012-3

Al Kurdi, B., Alquqa, E. K., Al-gharaibeh, S. M., Alhyasat, K. M. K., Alzoubi, H. M., Alshurideh, M. T., Al-Oran, O., Ahmed, G., & Al-Sulaiti, G. (2025). Determinants influencing consumer adoption of energy-efficient home appliances in Jordan: An empirical analysis. International Journal of Energy Economics and Policy, 15(4), 780–788.

Razmak, J., AlShawabkeh, A., Qasim, A., & Kharbat, F. (2018). Examining the factors affecting the adoption of e-health innovative technology. International Journal of Economics and Business Research, 16(2), 196–209.

Al Hamadi, H., Alzoubi, H. M., Alyafei, M., Almokahel, A., Alyafei, M., Al-Sit, W. T., & Alnawayseh, S. E. (2024). Evaluation of Purchasers Mentalities When Buying IoT Home Security Devices. In Technology Innovation for Business Intelligence and Analytics (TIBIA) Techniques and Practices for Business Intelligence Innovation (pp. 239-258). Cham: Springer Nature Switzerland.

El Khatib, M., Alzoubi, H. M., Alshurideh, M., & Alzoubi, A. A. (2023). Project Quality Management in the United Arab Emirates Mining and Construction Sector: A Literature Review. The Effect of Information Technology on Business and Marketing Intelligence Systems, 1341-1353.

Al Najdawi, M. H., Shwedeh, F., Abdelmoghies, M. M., Kitana, A., & Ali, A. (2024). Applying artificial intelligence in predicting educational excellence in higher education institutions: A case study in Jordanian universities. Edelweiss Appl Sci Technol, 8(6), 7273-7289.

Shwedeh, F. (2024b). The Integration of Artificial Intelligence (AI) Into Decision Support Systems Within Higher Education Institutions. Nanotechnology Perceptions, 20(S5), 331–357. https://doi.org/https://doi.org/10.62441/nano-ntp.v20iS5.26

Naim, H., Rani, L., Yattoo, T. A., Anas, M.,Nizamuddin, M., & Ahmed, G. (2025). Does audit committee quality enhance firm performance within a new corporate law? Corporate Law & Governance Review, 7(2), 112–126.

Sun, J., Garibaldi, M., and Al-Shawabkeh, A., (2016), "A Novel Hybridisation Strategy Based Memetic Algorithm for Constrained Optimisation", Journal of Information Sciences, Volume 340-341, pp. 175-190

Nuseir, M., AlShawabkeh, A., (2019), "Marketing communication in the digital age: Exploring the cultural historical activity theory in examining Facebook's advertising platform", International Journal of Electronic Customer Relationship Management, 12(2), pp. 97-107.

Pande, C. B., Neyara Radwan, N., Salim, H., Ahmed, K. O., Alshehri, F., Pal, S. C., & Pramanik, M. (2024). Forecasting of monthly air quality index and understanding of the air pollution in the Delhi city, India based on machine learning models and k-fold cross-validation. Journal of Atmospheric Chemistry, 82(1). https://doi.org/10.1007/s10874-024-09466-x

Khatib, M. E., Harmoodi, S. A., & Angelova, Y. (2024). Virtual reality as a hub for innovation – Correlations and interdependencies. In 2024 2nd International Conference on Cyber Resilience (ICCR) (pp. 1–5). IEEE.

Kharbat, F.F., AlShawabkeh, A. and Woolsey, M.L. (2021), "Identifying gaps in using artificial intelligence to support students with intellectual disabilities from education and health perspectives", Aslib Journal of Information Management, 73(1), pp. 101-128.

Al-Kassem, A. H. (2022). Accreditation of academic programs: Implications on quality governance and administration of Taguig City University. Journal of Positive School Psychology, 6(4), 3908-3923.

El Khatib, M., El Baradie, M., & Alrashedi, M. B. (2024). AI capable emotional robot teacher as a new economical trend in education. In 2024 2nd International Conference on Cyber Resilience (ICCR) (pp. 1–5). IEEE.

Al-Qassem, A., Agha, K., Mendoza, S., & El-Farra, E. (2022). Emergency management and its implications for the hospitality industry during the Coronavirus Disease 2019 (COVID-19) outbreak. Journal of Positive School Psychology, 6(2), 1824-1839.

Khan, W. A., Hussain, Z., Neyara Radwan, N., Ali, M., & Jamal, N. (2024). Characterizing non-similar analysis for chemically reactive magnetized Sutter by bidirectional fluid flow capturing features of non-linear thermal radiation. Journal of Radiation Research and Applied Sciences, 17(4). https://doi.org/10.1016/j.jrras.2024.101152

AlShawabkeh, A., Nuseir, M.T., Urabi, S. (2023), "The Impact of Social Media Usage on Companies' Customer Relationship Management (CRM)", Studies in Computational Intelligence , Vol. 1056, pp. 147-172

Alzoubi, A. A., Alhammadi, M. K., Alhammadi, K. A., Alhammadi, A., & Alzoubi, H. M. (2024). Investigating Impact of Ethical Considerations on IoMT Medical Devices of UAE Healthcare System. In Technology Innovation for Business Intelligence and Analytics (TIBIA) Techniques and Practices for Business Intelligence Innovation (pp. 391-402). Cham: Springer Nature Switzerland.

AlNaoimi, B., AlRaesi, R., AlKaboory, O., Aziz Alrasasi, A., Al-Sit, W. T., Alnawayseh, S. E., & Alzoubi, H. M. (2024). Data Warehousing for Assisting the Decision Makers. In

Technology Innovation for Business Intelligence and Analytics (TIBIA) Techniques and Practices for Business Intelligence Innovation (pp. 197-209). Cham: Springer Nature Switzerland.

Al-Qassem, A. H., Singh, N., Chopra, A., & Haddad, A. M. (2024). Impact of coronavirus crisis (COVID-19) on the sentiments of travelers in UAE. The International Journal of Learner Diversity and Identities (IJLDI), 31(1), 601-613.

Alshurideh, M., Al Kurdi, B., Okleh, I., Chatra, K., Al Omari, T.G.B., Alzoubi, H.M., Alzboun, N., Ahmed, G. and Abduljabbar, O.J. (2024) 'Factor affecting internet information credibility: The moderating effect of gender' International Journal of Data and Network Science,8 (2024)1-8. doi:10.5267/j.ijdns.2024.5.011

Alzoubi, A. A., ALKaabi, R., ALAmeri, S., & Alzoubi, H. M. (2024). Contemporary Security Concerns in IoT-Based Devices with Healthcare System. In Technology Innovation for Business Intelligence and Analytics (TIBIA) Techniques and Practices for Business Intelligence Innovation (pp. 423-436). Cham: Springer Nature Switzerland.

Alblooshi, M., Hilmi, M. F., Ahmed, G., & Abudaqa, A. (2025). The moderating effect of risk management on the relationship between critical risk factors and project success: A case of construction projects in the oil and gas industry of the UAE. Journal of Mines, Metals and Fuels, 73(7), 1–13.

Ismail, M., Neyara Radwan, Khan, W. A., Hussain, Z., & Hussain, I. (2024). Analyzing numerical insights of entropy generation and existence of chemotactic microorganisms for magnetized radiative Carreau nanofluid flow subjected to stratified medium via viscous dissipation. Journal of Radiation Research and Applied Sciences, 17(4). https://doi.org/10.1016/j.jrras.2024.101197

AlShawabkeh, A., Woolsey, L., Kharbat, F. (2021), "Using online information technology for deaf students during COVID-19: A closer look from experience", Heliyon, 7(5),e06915.

Alshurideh, M. T., Al Kurdi, B., Alzoubi, H. M., Ghazal, T. M., Said, R. A., AlHamad, A. Q., ... & Al-Kassem, A. H. (2022). Fuzzy assisted human resource management for supply chain management issues. Annals of Operations Research, 1-19.

Joghee, S., Kabiraj, S., Ramakrishnan, S., & Alzoubi, H. M. (2024). Consumer Decision-Making Study Regarding the SUV Market in the Indian Context. Indian Journal of Marketing, 54(11), 8-25.

Alzoubi, A. A., Al Neyadli, A., & Alzoubi, H. M. (2024). Security Flaws in Medical Wearables Devices Used in Health Care Systems. In Technology Innovation for Business Intelligence and Analytics (TIBIA) Techniques and Practices for Business Intelligence Innovation (pp. 291-299). Cham: Springer Nature Switzerland.

Aldawsari, S. H., Tan, W. S., Elsherazy, T. A., Chang, B. H., Alzoubi, H. M., & Ognjanović, I. (2024). A Quantile Dependence among Exchange Rate, Stock Prices and Oil Prices: An Empirical Evidence from India. Annals of Financial Economics, 19(03), 2450010.

Alzoubi, A. A., Shammas, S., & Alzoubi, H. M. (2024). Investigating E-Supply Chain Challenges in The Internet of Medical Things (IoMT). In Technology Innovation for Business Intelligence and Analytics (TIBIA) Techniques and Practices for Business Intelligence Innovation (pp. 357-367). Cham: Springer Nature Switzerland.

El Khatib, M. M., Abidi, N., Al-Nakeeb, A., Alshurideh, M., & Ahmed, G. (2023). Dubai smart city as a knowledge based economy. In The effect of information technology on business and marketing intelligence systems (pp. 1657-1672). Cham: Springer International Publishing.

Yas, H., Aburayya, A., & Shwedeh, F. (2024). Education quality and standards in the public school and the private school-case study in Saudi Arabia. In artificial intelligence in education: The power and dangers of ChatGPT in the classroom (pp. 563-572). Cham: Springer Nature Switzerland.

Halder, B., Chatterjee, P., Rana, B., Bandyopadhyay, J., Pande, C. B., Ahmed, K. O., Elkhrachy, I., & Neyara Radwan. (2024). Delineating the climate change impacts on urban environment along with heat stress in the Indian tropical city. Physics and Chemistry of the Earth, 136. https://doi.org/10.1016/j.pce.2024.103745

Som, A. P. M., & Al-Qassem, A. (2023). The influence of social and economic inequalities on support for tourism in developing communities: An intervening effect of tourism resources. Planning Malaysia, 21.

Alshurideh, M. T., Alzoubi, H. M., Al Kurdi, B., Hamadneh, S., Ahmed, G., Al-Sulaiti, K., Bataineh, A. Q., Alquqa, E. K., Ozturk, I. (2025). Consumer and Economic Influences on Electric Vehicle Adoption: The Mediating Role of Attitudes and the Moderating Effect of Demographics. International Journal of Energy Economics and Policy, 15(3), 214–229.

Lee, K. L., Amin, A. J., Alzoubi, H. M., Alshurideh, M., El Khatib, M., Joghee, S., & Nair, K. (2024). Investigating the factors affecting e-procurement adoption in supply chain performance: An empirical study on Malaysia manufacturing industry. Uncertain Supply Chain Management, 12(2), 615-632.

Kofinas, A., Al-Shawabkeh, A., and Lim,A., (2016), "Critical Success Factors of Using Social Media in Higher Education", chapter in a book titled Analysing the Strategic Role of Social Networking in Firm Growth.

Kanwal, N., Irtaza, G., Joghee, S., Ateeq, K., & Khadim, A. (2023). A safe and reliable method for data exchange in the cloud. 2023 International Conference on Business Analytics for Technology and Security (ICBATS), 1–7. https://doi.org/10.1109/ICBATS57792.2023.10111401

Al-Shawabkeh, A., Lim, A., (2014), "The Use of Social Media in Higher Education Learning", European Conference on Social Media ECSM 2014.

Al-Kassem, A. H., & Marwaha, S. (2022). Employee satisfaction and its impact on faculty members' performance at Al Ain University of Science and Technology in the UAE. NeuroQuantology, 20(2), 272-287.

Pande, C. B., Sidek, L. M., Varade, A. M., Elkhrachy, I., Neyara Radwan Tolche, A. D., & Elbeltagi, A. (2024). Forecasting of meteorological drought using ensemble and machine learning models.

Environmental Sciences Europe, 36, 160. https://doi.org/10.1186/s12302-024-00975-w

Al Kurdi, B., Alshurideh, M. T., Akour, I., Alzoubi, H. M., Obeidat, Z. M., Hamadneh, S., & Joghee, S. (2023). Factors affecting team social networking and performance: The moderation effect of team size and tenure. Journal of Open Innovation: Technology, Market, and Complexity, 9(2), 100047.

Al-Kassem, A. H. (2021). Significance of human resources training and development on organizational achievement. PalArch's Journal of Archaeology of Egypt/Egyptology, 18(7), 693-707.

Salloum, S. A., Almarzouqi, A., Aburayya, A., Shwedeh, F., Fatin, B., Al Ghurabli, Z., ... & Alfaisal, R. (2024). Redefining Educational Terrain: The Integration Journey of ChatGPT. In Artificial Intelligence in Education: The Power and Dangers of ChatGPT in the Classroom (pp. 157-169). Cham: Springer Nature Switzerland.

Salloum, S. A., Almarzouqi, A., Aburayya, A., Shwedeh, F., Fatin, B., Al Ghurabli, Z., ... & Alfaisal, R. (2024). Embracing ChatGPT: Ushering in a Revolutionary Phase in Educational Platforms. In Artificial Intelligence in Education: The Power and Dangers of ChatGPT in the Classroom (pp. 171-183). Cham: Springer Nature Switzerland.

AlShawabkeh, A., Nuseir, M.T., and Aljumah, A. (2021), "Impacts of social media on the buying intention of the consumers in Edinburgh, UK", International Journal of Procurement Management, 14(4), pp. 470-486.

Tanveer, A., Jarral, S., Al-Zubaidi, A., Saleem, S., & Neyara Radwan. (2024). The varying viscosity impact in an inclined peristaltic channel with diffusion-thermo and thermo-diffusion. ZAMM - Journal of Applied Mathematics and Mechanics, 104(5). https://doi.org/10.1002/zamm.202300794

107. Joghee, S., Alzoubi.H & Dubey, A. (2020) "Decisions Effectiveness of FDI Investment Biases at Real Estate Industry: Empirical Evidence from Dubai Smart City Projects", International Journal of Scientific & Technology Research, 9(3):3499-3503

Alzoubi, A. A., Alzarooni, M. Y., & Alzoubi, H. M. (2024). Privacy Violation and Information Misuse in the Internet of Medical Things (IoMT). In Technology Innovation for Business Intelligence and Analytics (TIBIA) Techniques and Practices for Business Intelligence Innovation (pp. 323-332). Cham: Springer Nature Switzerland.

Alzoubi, H. M., Alshurideh, M., El Khatib, M., Shamot, M. D., Joghee, S., Nair, K., & Al-Gharaibeh, S. M. (2024). Optimizing supply chain excellence: Unravelling the synergies between IT proficiencies, smart supply chain practices, and organizational culture. Uncertain Supply Chain Management, 12(3), 1855-1866.

Kurdi, B. Al, Alzoubi, H. M., Tan, C. L., El Khatib, M., Yanamandra, R., Ozturk, I., & Shwedeh, F. (2025). Internet of Things-Driven Information Sharing: A Strategic Approach to Mitigating Supply Chain Risks. International Review of Management and Marketing, 15(3), 325–332. https://doi.org/https://doi.org/10.32479/irmm.19474

Al Amiri, N., Ahmed, G., Al Qawasmeh, K. and Afana, H. (2024) 'Effect of crises on the healthcare marketing mix and customer satisfaction: evidence from the UAE during the COVID-19 pandemic', Middle East Journal of Management, 11(5) 471–495.

Al-Nakeeb, A., El Khatib, M., Zitar, R. A., Alhosani, A., & Alhosani, I. (2023). Project Manager's role in manage Project knowledge process: An approach to enhance Project quality. International Journal for Computers & Their Applications, 30(4).

Alzoubi, A. A., Nikoo, S. A., & Alzoubi, H. M. (2024). Investigating Contemporary Ethical Issues of Using Blockchain in E-Supply Chain in Internet of Medical Things (IOMT). In Technology Innovation for Business Intelligence and Analytics (TIBIA) Techniques and Practices for Business Intelligence Innovation (pp. 437-452). Cham: Springer Nature Switzerland.

Khadragy, S., Elshaeer, M., Mouzaek, T., Shammass, D., Shwedeh, F., Aburayya, A., ... & Aljasmi, S. (2022). Predicting diabetes in United Arab Emirates healthcare: artificial intelligence and data mining case study. South East. Eur. J. Public Heal, 5.

Al Najdawi, M. H., Shwedeh, F., Mokhtar Abdelmoghies, M., Kitana, A., & Ali, A. (2024). Applying artificial intelligence in predicting educational excellence in higher education institutions: A case study in Jordanian universities. Edelweiss Applied Science and Technology, 8(6), 7273–7289. https://doi.org/10.55214/25768484.v8i6.3579

Alkatheeri, S., Hilmi, M. F., Ahmed, G., & Abudaqa, A. (2025). Examining the nexus between strategic outsourcing and operational performance: A case of the health care industry of the UAE under the resource-based economy. Journal of Mines, Metals and Fuels, 73(7), 1–13.

Kumar, P., Neyara Radwan., Vij, M., & Vij, A. (2024). The role of robotics in enhancing service quality, efficiency, and customer satisfaction in the hospitality industry. IEEE Xplore. https://doi.org/10.1109/ICCR61006.2024.10532969

Vij, M., Vij, A., Kumar, P., Masoud, E. Y., Al Kurdi, B., & Alzoubi, H. M. (2025). Artificial Intelligence in Digital Marketing Strategies in the UAE: The Mediating Role of Predictive Analytics in Enhancing Customer Conversion. International Review of Management and Marketing, 15(4), 380.

Kharbat, F., Razmak, J., AlShawabkeh, A., (2017), "Proposing UAE-patient portal: A new direction in the health services", 2017 Medical Technologies National Conference, TIPTEKNO 2017.

Alzoubi, A. A., Mubarak, S. O., Sultan, M. K., Ali, A. O., & Alzoubi, H. M. (2024). Investigating the Impact of Ethical Concerns on the Security and Privacy of Medical Devices in the UAE. In Technology Innovation for Business Intelligence and Analytics (TIBIA) Techniques and Practices for Business Intelligence Innovation (pp. 465-479). Cham: Springer Nature Switzerland.

AlShawabkeh, A., Kharbat, F., Razmak, J. (2023), "Knowledge Management Role in Enhancing Customer Relationship Management in Hotels Industry in the UK", 2022 9th International Conference on Social

Networks Analysis, Management and Security, SNAMS 2022.

Al-Shawabkeh, A., Kanungo, R., (2017), "Credit risk estimate using internal explicit knowledge ", Investment Management and Financial Innovation, 14(1), pp. 55-66.

Joghee, S., Dubey, A., & Sonia. S (2021) "Investigation of Green Marketing Practices of UAE Hypermarkets", International Journal of Enterprise Network Management. https://doi.org/10.1504/IJENM.2021.10043386

Joghee, S., & Dubey, A. (2018) 'Performance Measurement in Entrepreneurial Marketing' The Journal of Human Resource and Adult Learning, 14 (1) 78-84.

El Khatib, M., AlQurashi, M., AlHashemi, S., AlKetbi, M., & AlHarmoodi, S. (2023, March). Digital Platforms' Influence on Project Management. In 2023 International Conference on Business Analytics for Technology and Security (ICBATS) (pp. 1-7). IEEE.

El Khatib, M., Al-Nakeeb, A., Alketbi, A., Al Hashemi, A., Mustafawi, F., Almansoori, R., ... & Alshurideh, M. (2023). Impact of Remote Work on Project Risks Management: Focus on Unknown Risks. In The Effect of Information Technology on Business and Marketing Intelligence Systems (pp. 747-766). Cham: Springer International Publishing.

Joghee, S., Al Kurdi, B., Alshurideh, M., Alzoubi, H.M., Anu V., Murali M., & Samer H., (2021). Expats impulse buying behaviour in UAE: A customer perspective. Journal of Management Information and Decision Sciences, 24(S1), 1-24.

Alzoubi, H. M., Alshurideh, M. T., El Khatib, M., Shamout, M. D., Yanamandra, R., Nair, K., & Al-Gharaibeh, S. M. (2024). Exploring the nexus between innovation orientation, green supply chain management, and organizational performance in e-retailing industry. Uncertain Supply Chain Management, 12(3), 1923-1934.

Shwedeh, F. (2021). The Impact Of Smart City Policy Timeliness And Technology Readiness On Smart City Performance In Dubai: The Moderating Effect Of Financial Availability.

Al-Qassem, A. H. (2024). Performance: The mediating role of job satisfaction and pro-environmental behavior. Taylor & Francis Cogent Business & Management, 11(1). https://doi.org/10.1080/23311975.2024.2328316

Yasir, M., Saleem, S., Khan, M., & Neyara Radwan (2024). Dynamics of magnetized viscous dissipative material of hybrid nanofluid with irregular thermal generation/absorption. Case Studies in Thermal Engineering, 58. https://doi.org/10.1016/j.csite.2024.104359

Khatib, M. M. E., & Ahmed, G. (2024). Achieving excellence in business practices through artificial intelligence: a case study of the Dubai public sector. International Journal of Public Sector Performance Management, 14(2), 262-277.

El Khatib, M., Ankit, A., Al Ameeri, I., Al Zaabi, H., Al Marqab, R., Alzoubi, H. M., & Alshurideh, M. (2023). The Role and Impact of Big Data in Organizational Risk Management. In The Effect of Information Technology on Business and Marketing Intelligence Systems (pp. 2139-2153). Cham: Springer International Publishing.

Al-Qassem, A. H. (2022). Efficiency and effectiveness of human resource development in the tourism industry of the United Arab Emirates. Journal of Positive School Psychology, 6(2), 1811-1823.

Shwedeh, F., Nour, M. A., & Akour, I. (2024). Optimizing augmented reality adoption in higher education: A comprehensive analysis of factors impacting data management efficiency. Journal of Infrastructure, Policy and Development, 8(9), 6232. https://doi.org/https://doi.org/10.24294/jipd.v8i9.6232

Shwedeh, F. (2024a). Designing Delight: Exploring the Nexus of Interactive Design, User Experience, and Psychological Theory in Banking Chatbot. Nanotechnology Perceptions, 20(S4), 378–398. https://doi.org/https://doi.org/10.62441/nano-ntp.vi.650

Shwedeh, F., Salloum, S. S., Aburayya, A., Fatin, B., Elbadawi, M. A., Al Ghurabli, Z., ... & Akkass, M. A. (2024). The impact of educating managers in adopting AI applications on decision making development: a case study in the UAE. In Artificial Intelligence in Education: The Power and Dangers of ChatGPT in the Classroom (pp. 591-603). Cham: Springer Nature Switzerland.

Martinez, E. B., Al-Kassem, A. H., & Aguenza, B. B. (2022). Operationalization of Negosyo Center as an entrepreneurial strategy to selected micro, small, and medium enterprises in Taguig City. Global Business & Management Research, 14.

Khatib, M. E., Al-Nakeeb, A., Binkhadim, S., & Shehata, O. (2024). Modern digitization, technical integration, and social sustainability: Together toward better quality of life. 2024 2nd International Conference on Cyber Resilience (ICCR), 1–5. IEEE.

Al-Qassem, A. H., Tharwat, A., & Marwaha, S. (2024). The impact of digital transformation readiness towards the new normalcy in the education system. The International Journal of Learner Diversity and Identities (IJLDI), 31(1), 601-613.

Sihag, P., Mehta, T., Sammen, S. S., Pande, C. B., Puri, D., & Neyara Radwan (2024). Predictive modelling of nitrogen dioxide using soft computing techniques in Agra, Uttar Pradesh, India. Physics and Chemistry of the Earth, 134. https://doi.org/10.1016/j.pce.2024.103589

Murtaza, A., Rehman, A., Malik, S. U. R., Ahmed, G., Abbas, A., & Khan, M. A. (2024). A model-based approach to enhance the communication between the participants of collaborative business processes. IEEE Access, 12, 121780 – 121791 3450690.

Alzoubi, H. M., Tan, C. L., El Khatib, M., Alshurideh, M. T., Shwedeh, F., Yanamandra, R., & Lee, K. L. (2025). Smart Government Initiatives: Transforming Global Supply Chains through Digital Change. International Review of Management and Marketing, 15(3), 209–217. https://doi.org/https://doi.org/10.32479/irmm.18962

How AI Supports Risk Management: Smarter Project Risk Mitigation." ILX Group. https://www.ilxgroup.com/usa/blog/how-ai-

supports-risk-management-smarter-project-risk-mitigation.

Lee, C., and H. Kim. "Artificial Intelligence and Project Management: A Case Study on ChatGPT Adoption." Journal of Project Management Technology, vol. 9, no. 2, 2024, pp. 88–102.

Matoussi, Yassine, and Christian Trentesaux. "Artificial Intelligence-Based Approaches in Risk Management: A Literature Review." Risks, vol. 12, no. 2, 2024, p. 19. https://www.mdpi.com/2227-9091/12/2/19.

Nieto-Rodriguez, Antonio, and Ricardo Vargas. "How AI Will Transform Project Management." Harvard Business Review, Feb. 2023. https://hbr.org/2023/02/how-ai-will-transform-project-management.

Odejide, O. A., and T. E. Edunjobi. "AI in Project Management: Exploring Theoretical Models for Decision-Making and Risk Management." Engineering Science & Technology Journal, vol. 5, no. 3, 2024, pp. 1072–1085. https://www.researchgate.net/publication/379255122.

Ogunbukola, Matthew. "The Impact of Artificial Intelligence on Project Management: Enhancing Efficiency, Risk Mitigation, and Decision-Making in Complex Projects." ResearchGate, Sept. 2024. https://www.researchgate.net/publication/384266056.

AI-Based Service Edge App from Siemens for Higher Availability of Drives." Siemens China, 25 May 2022. https://w1.siemens.com.cn/news_en/news_articles_en/17573.aspx.

AI and Risk Management: Be in Control of Your Projects." IIL Blog. https://blog.iil.com/risk-management-and-ai-algorithms-be-in-control-of-your-projects.

AI for Worker Site Safety in Construction." Business Insider, 2025. https://www.businessinsider.com/ai-for-worker-site-safety-in-construction-2025-4.

AI in Project Management: Case Studies and Success Stories." Zignuts, 2024. https://www.zignuts.com/blog/ai-project-management-case-studies-success-stories.

Artificial Intelligence in Project Management: Advantages, Disruptions, and Adaptation." Institute of Project Management, 9 June 2023. https://projectmanagement.ie/blog/artificial-intelligence-in-project-management-advantages-disruptions-and-adaptation.

Embracing AI for Project Risk Management." Project.info, 2024. https://project.info/embracing-ai-for-project-risk-management.

Xu, J., et al. "An Effective Software Risk Prediction Management Analysis of Data Using Machine Learning and Data Mining Method." arXiv, 2024. https://arxiv.org/abs/2406.09463.

Yan, Jiaqi, et al. "Artificial Intelligence Applications in Risk Management: An Overview and Future Directions." Risks, vol. 12, no. 2, 2024, p. 19. https://www.mdpi.com/2227-9091/12/2/19.

Anton, Dr. L. "Navigating Ethical Dilemmas in AI-Driven Risk Management." LinkedIn, 2024. https://www.linkedin.com/pulse/navigating-ethical-dilemmas-ai-driven-risk-management-dr-anton-l9v8c.

Zhang, L., and P. Wang. "The Role of Artificial Intelligence in Project Management: A Supply Chain Perspective." Journal of Modern Project Management, vol. 12, no. 3, 2024, pp. 45–60. https://www.tandfonline.com/doi/full/10.1080/16258312.2024.2384823.