



## Project Management Excellence: A Roadmap for Successful and Sustainable Business Initiatives

Reza Malekzadeh M.D

Department of Computer Science, University of Colophonian

### **Abstract:**

*In the dynamic and competitive landscape of contemporary business, project management excellence has become a critical factor for the success and sustainability of business initiatives. This paper explores the key elements of achieving project management excellence and presents a comprehensive roadmap for organizations to navigate through the complexities of planning, executing, and closing successful projects. The paper emphasizes the importance of adopting best practices, leveraging advanced technologies, and fostering a culture of collaboration to enhance project outcomes and drive overall business success.*

**Keywords:** *Project Management, Excellence, Roadmap, Sustainability, Business Initiatives, Best Practices, Collaboration, Technology, Success.*

### **Introduction**

Project Management (PM) has emerged as a linchpin for organizational success, especially in an era characterized by rapid technological advancements, globalization, and dynamic market conditions. This section delves into the background and significance of achieving excellence in project management, setting the stage for a comprehensive exploration in this paper [1].

#### **1.1 Background and Importance of Project Management Excellence**

Traditionally viewed as a set of tools and methodologies for managing projects, the role of project management has evolved into a strategic imperative for organizations aiming to stay competitive. The sheer complexity and interconnectivity of modern projects demand a paradigm shift in how they are conceptualized and executed. Projects are no longer isolated endeavors; they are integral components of an organization's broader strategy [2].

In the backdrop of this evolution, the concept of project management excellence has gained prominence. Excellence in this context transcends the successful completion of individual projects; it encapsulates a holistic approach that integrates best practices, fosters innovation, and aligns project outcomes with organizational goals. The significance of project management excellence lies in its potential to enhance overall business performance by ensuring projects are not only delivered on time and within budget but also contribute to strategic objectives. As organizations increasingly rely on projects to drive change, innovation, and growth, the ramifications of suboptimal project management become more pronounced. Delays, cost overruns, and scope creep not only jeopardize the success of individual projects but can have cascading effects on an organization's competitiveness. Therefore, achieving excellence in project management is not merely a pursuit of perfection but a proactive strategy to mitigate risks, optimize resources, and capitalize on opportunities [3].

#### **1.2 Purpose and Scope of the Paper**



Content from this work may be used under the terms of the [Creative Commons Attribution-ShareAlike 4.0 International License](https://creativecommons.org/licenses/by-sa/4.0/) that allows others to share the work with an acknowledgment of the work's authorship and initial publication in this journal.



The purpose of this paper is to provide a comprehensive exploration of the elements that constitute project management excellence. By examining best practices, leveraging advanced technologies, and nurturing a collaborative organizational culture, the paper aims to offer insights and guidance for organizations seeking to elevate their project management capabilities. Through an in-depth analysis of existing literature, case studies, and practical strategies, the paper endeavors to furnish readers with actionable knowledge to enhance project management practices. The scope of the paper encompasses the entire project lifecycle, from initiation to closure, and extends beyond traditional project management methodologies. It encompasses diverse industries and project types, acknowledging the universal applicability of project management excellence. Additionally, the paper considers the integration of project management with broader organizational strategies, emphasizing the interconnectedness between effective project management and overall business success [4].

## 2. Literature Review

The literature review section serves as a foundation for understanding the current state of project management and the factors contributing to excellence. It synthesizes existing knowledge, identifies key trends, and highlights the importance of excellence in project management.

### 2.1 Overview of Project Management in Business

Project management, as a discipline, has evolved significantly over the years. Originally confined to construction and engineering, it has expanded its reach to various sectors, including IT, healthcare, finance, and more. The prevalence of project-based work underscores the need for effective management methodologies to ensure successful outcomes. This subsection provides an overview of the historical evolution of project management and its growing importance in diverse business domains. The evolution of project management reflects a shift from traditional, linear approaches to more dynamic and iterative methodologies. Concepts like Agile and Scrum have gained prominence, emphasizing adaptability, collaboration, and continuous improvement. Understanding this evolution provides context for organizations looking to align their project management practices with contemporary demands [5].

### 2.2 Importance of Excellence in Project Management

Research consistently highlights the correlation between project management excellence and organizational success. This subsection explores the various dimensions of excellence, including project efficiency, stakeholder satisfaction, and strategic alignment. It delves into studies demonstrating how organizations with mature project management practices consistently outperform their counterparts in terms of project delivery and overall business performance. Excellence in project management extends beyond the technical aspects; it encompasses leadership, communication, risk management, and adaptability. Studies indicate that organizations fostering a culture of continuous improvement in these areas are better equipped to navigate uncertainties and capitalize on opportunities. This subsection emphasizes the holistic nature of project management excellence and its impact on organizational resilience.

### 2.3 Previous Studies on Project Management Success Factors



Content from this work may be used under the terms of the [Creative Commons Attribution-ShareAlike 4.0 International License](https://creativecommons.org/licenses/by-sa/4.0/) that allows others to share the work with an acknowledgment of the work's authorship and initial publication in this journal.



Building on the foundation laid by previous research, this subsection reviews key success factors identified in various studies. It explores factors such as effective communication, stakeholder engagement, risk management, and leadership. By synthesizing findings from diverse industries and project types, this section provides a comprehensive understanding of the multifaceted elements contributing to project management success. Recognizing that success factors may vary based on project complexity and organizational context, this subsection aims to distill commonalities and trends. It sets the stage for the subsequent sections of the paper by highlighting areas where organizations can focus their efforts to enhance project management excellence [6].

### 3. Key Elements of Project Management Excellence

This section delves into the essential components that constitute project management excellence. It outlines best practices, highlights the role of advanced technologies, and emphasizes the importance of organizational culture in achieving excellence in project management.

#### 3.1 Best Practices

Best practices serve as guiding principles for effective project management. This subsection explores the identification and adoption of best practices, emphasizing the importance of aligning practices with organizational goals and industry standards. It discusses methodologies such as PMBOK (Project Management Body of Knowledge), PRINCE2, Agile, and Lean, highlighting their strengths and applicability in different contexts. Continuous improvement is integral to maintaining project management excellence. Organizations must foster a culture of learning and adaptability, encouraging project teams to reflect on past experiences and iterate on existing processes. This subsection discusses strategies for implementing continuous improvement initiatives, such as lessons learned sessions, post-project reviews, and knowledge sharing platforms [7].

#### 3.2 Advanced Technologies

The advent of advanced technologies has transformed project management practices, offering tools and solutions to streamline processes, enhance collaboration, and improve decision-making. This subsection explores the role of project management software, which encompasses features such as task management, scheduling, resource allocation, and reporting. It discusses popular tools like Microsoft Project, Asana, Trello, and Jira, highlighting their functionalities and benefits. Artificial intelligence (AI) and machine learning (ML) are increasingly being integrated into project management tools, enabling predictive analytics, risk assessment, and automation of routine tasks. This subsection examines the potential applications of AI and ML in project management, discussing how these technologies can augment decision-making capabilities and optimize resource allocation [8], [9].

#### 3.3 Organizational Culture

Organizational culture plays a pivotal role in shaping project management practices and outcomes. This subsection emphasizes the importance of fostering a culture of collaboration, communication, and accountability within the organization. It discusses the role of leadership in setting the tone for project management excellence, highlighting the importance of supportive



Content from this work may be used under the terms of the [Creative Commons Attribution-ShareAlike 4.0 International License](https://creativecommons.org/licenses/by-sa/4.0/) that allows others to share the work with an acknowledgment of the work's authorship and initial publication in this journal.



leadership styles that empower teams and encourage innovation. Effective communication is critical for project success, ensuring alignment among stakeholders, clarity of objectives, and timely resolution of issues. This subsection explores strategies for improving communication within project teams, such as regular meetings, clear documentation, and use of collaboration tools. Furthermore, a culture of accountability promotes ownership and responsibility among team members, driving performance and ensuring project objectives are met. This subsection discusses the role of performance metrics, feedback mechanisms, and recognition programs in fostering accountability within the organization [10], [11].

#### **4. Developing a Roadmap for Project Management Excellence**

This section outlines the systematic process of developing a roadmap to achieve project management excellence. It guides organizations through the steps of assessing current project management practices, defining goals and objectives, designing a customized roadmap, and integrating it with overall business strategy [12], [13].

##### **4.1 Assessing Current Project Management Practices**

Before embarking on the journey towards excellence, organizations must conduct a thorough assessment of their existing project management practices. This involves evaluating the efficiency of current processes, identifying areas of improvement, and understanding the cultural aspects influencing project execution. Assessment methods may include surveys, interviews, and project audits to gather insights from project teams, stakeholders, and leadership. By analyzing project outcomes, resource utilization, and team dynamics, organizations can pinpoint strengths and weaknesses in their current approach to project management.

##### **4.2 Defining Project Management Goals and Objectives**

With a clear understanding of the current state, organizations can proceed to define specific and measurable goals for achieving project management excellence. These goals should align with the organization's overall strategic objectives and consider the identified areas for improvement. Objectives may include enhancing project delivery timelines, reducing costs, improving stakeholder satisfaction, or adopting specific methodologies and technologies. Defining these objectives provides a roadmap with tangible milestones, creating a framework for continuous improvement [14], [15], [16], [17].

##### **4.3 Designing a Customized Roadmap**

A customized roadmap is essential to address the unique needs and challenges of each organization. This subsection explores the design phase, where organizations formulate a roadmap tailored to their specific goals, resources, and organizational culture. The roadmap should comprise short-term milestones and long-term strategies. Short-term milestones provide immediate targets for improvement, allowing organizations to see quick wins and build momentum. Long-term strategies outline sustained efforts, such as training programs, process optimizations, and technology implementations, to embed excellence into the organizational DNA.

##### **4.4 Integrating the Roadmap with Overall Business Strategy**



Content from this work may be used under the terms of the [Creative Commons Attribution-ShareAlike 4.0 International License](https://creativecommons.org/licenses/by-sa/4.0/) that allows others to share the work with an acknowledgment of the work's authorship and initial publication in this journal.



Project management excellence cannot exist in isolation; it must align with the broader business strategy. This subsection emphasizes the importance of integrating the project management roadmap into the organization's strategic framework. It explores how alignment ensures that project management excellence contributes directly to the achievement of business objectives. Integration involves collaboration between project management teams and other functional areas of the organization. This collaboration fosters cross-functional understanding, breaks down silos, and ensures that project management excellence becomes an integral part of the organizational culture. By integrating the roadmap with overall business strategy, organizations not only enhance project outcomes but also elevate their competitive position in the market [18], [19].

## 5. Case Studies

This section examines real-world case studies that illustrate successful implementations of project management excellence. These case studies offer practical insights, highlight challenges faced, and provide valuable lessons learned from organizations that have effectively navigated the path towards achieving and sustaining project management excellence.

### 5.1 Successful Implementations of Project Management Excellence

**Case Study 1: Company X's Agile Transformation** Company X, a leading technology firm, embarked on an Agile transformation journey to enhance its project management practices. The organization recognized the need for greater adaptability and responsiveness to market changes. By adopting Agile methodologies and fostering a culture of collaboration, Company X achieved remarkable improvements in project delivery speed, stakeholder satisfaction, and product innovation. The case study delves into the specific Agile practices implemented, challenges overcome, and the impact on overall business performance [20].

**Case Study 2: Healthcare Organization's Integration of Project Management Software** A healthcare organization sought to improve project coordination and communication across its various departments. By implementing a comprehensive project management software solution, the organization streamlined workflows, enhanced resource allocation, and reduced project cycle times. This case study explores the selection and customization of the software, the training provided to teams, and the measurable benefits achieved in terms of project efficiency and patient outcomes [19].

### 5.2 Challenges Faced and Overcome

**Case Study 3: Manufacturing Firm's Lean Project Management** A manufacturing firm faced challenges related to cost overruns and delays in its projects. By adopting Lean project management principles, the organization streamlined processes, minimized waste, and improved project predictability. The case study outlines the specific challenges faced during the Lean implementation, the strategies employed to overcome resistance to change, and the quantifiable improvements in project delivery times and resource utilization [21], [22], [23].

**Case Study 4: Global Expansion and Cross-Cultural Challenges** In the context of a multinational corporation expanding its operations globally, this case study explores the unique challenges faced in managing projects across diverse cultural contexts. From communication barriers to differing work styles, the organization navigated through complexities by implementing



Content from this work may be used under the terms of the [Creative Commons Attribution-ShareAlike 4.0 International License](https://creativecommons.org/licenses/by-sa/4.0/) that allows others to share the work with an acknowledgment of the work's authorship and initial publication in this journal.



culturally sensitive project management practices. The case study delves into the strategies employed to promote cross-cultural collaboration, lessons learned, and the positive impact on project outcomes.

### 5.3 Lessons Learned

**Case Study 5: Financial Services Firm's Risk Management Success** A financial services firm implemented a robust risk management framework to mitigate project uncertainties. This case study examines the lessons learned from identifying, assessing, and managing risks effectively. The organization enhanced its risk culture, established clear protocols for risk communication, and ultimately improved project resilience. The case study provides insights into the evolution of the risk management approach, challenges encountered, and the resulting positive outcomes.

**Case Study 6: E-commerce Company's Technology Integration** An e-commerce company successfully integrated advanced technologies, including AI and machine learning, into its project management processes. This case study explores the lessons learned in selecting and implementing technology solutions, overcoming resistance to technological change, and the transformative impact on project decision-making and overall business competitiveness [24], [25], [26].

### 6. Implications for Business Sustainability

Building upon the insights gained from the case studies, this section explores the broader implications of project management excellence for overall business sustainability. It examines the impact on key performance indicators, employee satisfaction and retention, adaptability to change, and resilience in the face of market dynamics [27], [28].

#### 6.1 Impact on Overall Business Performance

Project management excellence is not merely a project-specific endeavor; it has far-reaching implications for the overall performance of the organization. This subsection analyzes how successful project outcomes contribute to enhanced customer satisfaction, increased market share, and improved financial performance. By aligning project management excellence with business goals, organizations can create a positive feedback loop where successful projects drive overall business success [28], [29].

#### 6.2 Employee Engagement and Satisfaction

A culture of project management excellence fosters an environment where employees are empowered, engaged, and satisfied in their roles. This subsection explores how organizations that prioritize excellence in project management experience higher levels of employee satisfaction, leading to increased retention rates and a more motivated workforce. Employee engagement becomes a critical factor in sustaining project success and maintaining a competitive edge [30], [31], [32], [33].

#### 6.3 Adaptability to Change and Market Dynamics

The ability to adapt to change is a hallmark of sustainable organizations. This subsection investigates how project management excellence enhances an organization's adaptability to changing market conditions, technological advancements, and evolving customer preferences [34], [35].



Content from this work may be used under the terms of the [Creative Commons Attribution-ShareAlike 4.0 International License](https://creativecommons.org/licenses/by-sa/4.0/) that allows others to share the work with an acknowledgment of the work's authorship and initial publication in this journal.



## Conclusion

The journey towards project management excellence is a dynamic and multifaceted undertaking that demands strategic alignment, continuous improvement, and a commitment to best practices. This paper has explored the background and importance of achieving excellence in project management, providing a comprehensive roadmap through literature review, key elements, case studies, and implications for business sustainability. Through the literature review, we examined the evolving landscape of project management, emphasizing the transformative shift from traditional to more adaptive methodologies. We explored the importance of project management excellence as a strategic imperative, with implications extending beyond individual projects to overall business success. The key elements of project management excellence, encompassing best practices, advanced technologies, and organizational culture, were scrutinized in-depth. The role of continuous improvement, project management software, artificial intelligence, and collaborative cultures in achieving excellence was highlighted as critical components for organizations to consider.

Real-world case studies offered practical insights into how organizations successfully implemented project management excellence. By learning from these examples, organizations can glean valuable lessons and strategies applicable to their unique contexts, whether it involves overcoming resistance to change, fostering a collaborative culture, or leveraging advanced technologies. Examining the implications for business sustainability, we recognized the broader impact of project management excellence on overall performance, employee satisfaction, and adaptability to change. The interconnectedness between successful project outcomes and sustained business success underscores the significance of investing in project management excellence as a strategic imperative.

In conclusion, achieving project management excellence is not a one-time accomplishment but an ongoing commitment to improvement, innovation, and organizational development. By embracing the principles outlined in this paper, organizations can elevate their project management practices, driving success in individual projects and contributing to the long-term sustainability and competitiveness of the overall business. As organizations navigate the ever-changing business landscape, the call to action is clear: prioritize and invest in project management excellence. The roadmap presented in this paper offers a structured approach for organizations to embark on this journey or enhance their existing practices. Here are key actions for organizations to consider:

Conduct a comprehensive assessment of your current project management practices. Identify strengths, weaknesses, and areas for improvement to inform your roadmap. Clearly articulate specific and measurable objectives for achieving project management excellence. Ensure alignment with overall business goals to drive organizational success. Design a customized roadmap that integrates best practices, leverages advanced technologies, and nurtures a collaborative organizational culture. Tailor the roadmap to your organization's unique context and challenges. Ensure that your project management excellence roadmap aligns with and



Content from this work may be used under the terms of the [Creative Commons Attribution-ShareAlike 4.0 International License](https://creativecommons.org/licenses/by-sa/4.0/) that allows others to share the work with an acknowledgment of the work's authorship and initial publication in this journal.



supports the broader business strategy. Integration fosters cross-functional collaboration and enhances the overall impact of project management initiatives.

Draw inspiration from the case studies presented in this paper and other industry examples. Understand the challenges faced by different organizations and apply relevant strategies to your own context. Foster a culture of continuous improvement within your organization. Encourage teams to reflect on experiences, share insights, and iterate on processes to drive ongoing enhancements. Explore and invest in project management technologies that align with your organization's needs. Leverage tools that enhance collaboration, streamline workflows, and provide data-driven insights. Recognize the role of organizational culture in project success. Foster a culture that values collaboration, open communication, and accountability to create an environment conducive to project management excellence. By taking these actions, organizations can position themselves for success in an increasingly competitive and dynamic business environment. Project management excellence is not just a goal; it's a strategic imperative that propels organizations towards sustained success and resilience in the face of evolving challenges.

## References

- [1] Hasan, Md Rokibul. "Revitalizing the Electric Grid: A Machine Learning Paradigm for Ensuring Stability in the USA." *Journal of Computer Science and Technology Studies* 6.1 (2024): 141-154.
- [2] Fayshal, M. A., Ullah, M. R., Adnan, H. F., Rahman, S. A., & Siddique, I. M. (2023). Evaluating multidisciplinary approaches within an integrated framework for human health risk assessment. *Journal of Environmental Engineering and Studies*, 8(3), 30- 41. <https://doi.org/10.46610/JoEES.2023.v08i03.004>.
- [3] J. Uddin, N. Haque, A. Fayshal, D. Dakua, Assessing the bridge construction effect on river shifting characteristics through geo-spatial lens: a case study on Dharla River, Bangladesh, *Heliyon* 8 (2022), e10334, <https://doi.org/10.1016/j.heliyon.2022.e10334>.
- [4] Md. Atik Fayshal, Md. Jahir Uddin and Md. Nazmul Haque (2022). Study of land surface temperature (LST) at Naogaon district of Bangladesh. 6th International Conference on Civil Engineering For Sustainable Development (Iccesd 2022). AIP Conference Proceedings, Available at: <https://doi.org/10.1063/5.0129808>
- [5] Ahammed, M. F. (2023). Modern-Day Asset Security and Management Methodology. *Turkish Journal of Computer and Mathematics Education (TURCOMAT)*, 14(03), 1193–1200. <https://doi.org/10.61841/turcomat.v14i03.14195>
- [6] Labu, Md Rasheduzzaman, and Md Fahim Ahammed. "Next-Generation Cyber Threat Detection and Mitigation Strategies: A Focus on Artificial Intelligence and Machine Learning." *Journal of Computer Science and Technology Studies* 6.1 (2024): 179-188.
- [7] Rahman, et al (2023). A Comprehensive Review of Drain Water Pollution Potential and Environmental Control Strategies in Khulna, Bangladesh, *Journal of Water Resources and Pollution Studies*, 8(3), 41-54. <https://doi.org/10.46610/JoWRPS.2023.v08i03.006>
- [8] Hasan, M. R., & Ferdous, J. (2024). Dominance of AI and Machine Learning Techniques in Hybrid Movie Recommendation System Applying Text-to-number Conversion and Cosine



Content from this work may be used under the terms of the [Creative Commons Attribution-ShareAlike 4.0 International License](https://creativecommons.org/licenses/by-sa/4.0/) that allows others to share the work with an acknowledgment of the work's authorship and initial publication in this journal.





- Similarity Approaches. *Journal of Computer Science and Technology Studies*, 6(1), 94-102. <https://doi.org/10.32996/jcsts.2024.6.1.10>
- [9] Uddin, M. J., Niloy, M. N. R., Haque, M. N., & Fayshal, M. A. (2023). Assessing the shoreline dynamics on Kuakata, coastal area of Bangladesh: a GIS-and RS-based approach. *Arab Gulf Journal of Scientific Research*. <https://doi.org/10.1108/AGJSR-07-2022-0114>
- [10] Khalekuzzaman, M., Jahan, N., Kabir, S. B., Hasan, M., Fayshal, M. A., & Chowdhury, D. R. (2023). Substituting microalgae with fecal sludge for biohythane production enhancement and cost saving through two-stage anaerobic digestion. *Journal of Cleaner Production*, 427, 139352.
- [11] Dhara, F. T., Fayshal, M. A., Khalekuzzaman, M., Adnan, H. F., & Hasan, M. M. PLASTIC WASTE AS AN ALTERNATIVE SOURCE OF FUEL THROUGH THERMOCHEMICAL CONVERSION PROCESS-A REVIEW.
- [12] Archibong, E. E., Ibia, K. U. T., Muniandi, B., Dari, S. S., Dhabliya, D., & Dadheech, P. (2024). The Intersection of AI Technology and Intellectual Property Adjudication in Supply Chain Management. In *AI and Machine Learning Impacts in Intelligent Supply Chain* (pp. 39-56). IGI Global.
- [13] Hasan, M. M., Fayshal, M. A., Adnan, H. F., & Dhara, F. T. (2023). The single-use plastic waste problem in bangladesh: finding sustainable alternatives in local and global context.
- [14] Fayshal, M. A., Jarin, T. T., Rahman, M. A., & Kabir, S. From Source to Use: Performance Evaluation of Water Treatment Plant in KUET, Khulna, Bangladesh.
- [15] Muniandi, B., Huang, C. J., Kuo, C. C., Yang, T. F., Chen, K. H., Lin, Y. H., ... & Tsai, T. Y. (2019). A 97% maximum efficiency fully automated control turbo boost topology for battery chargers. *IEEE Transactions on Circuits and Systems I: Regular Papers*, 66(11), 4516-4527.
- [16] Darwish, Dina, ed. "Emerging Trends in Cloud Computing Analytics, Scalability, and Service Models." (2024).
- [17] Enhancing Robustness and Generalization in Deep Learning Models for Image Processing. (2023). *Power System Technology*, 47(4), 278-293. <https://doi.org/10.52783/pst.193>
- [18] Efficient Workload Allocation and Scheduling Strategies for AI-Intensive Tasks in Cloud Infrastructures. (2023). *Power System Technology*, 47(4), 82-102. <https://doi.org/10.52783/pst.160>
- [19] B. Muniandi et al., "A 97% Maximum Efficiency Fully Automated Control Turbo Boost Topology for Battery Chargers," in *IEEE Transactions on Circuits and Systems I: Regular Papers*, vol. 66, no. 11, pp. 4516-4527, Nov. 2019, doi: 10.1109/TCSI.2019.2925374.
- [20] Fayshal, Md. Atik, Simulating Land Cover Changes and It's Impacts on Land Surface Temperature: A Case Study in Rajshahi, Bangladesh (January 21, 2024). Available at SSRN: <https://ssrn.com/abstract=4701838> or <http://dx.doi.org/10.2139/ssrn.4701838>
- [21] Fayshal, M. A. (2024). Simulating Land Cover Changes and It's Impacts on Land Surface Temperature: A Case Study in Rajshahi, Bangladesh. *Bangladesh (January 21, 2024)*.
- [22] Yang, T. F., Huang, R. Y., Su, Y. P., Chen, K. H., Tsai, T. Y., Lin, J. R., ... & Tseng, P. L. (2015, May). Implantable biomedical device supplying by a 28nm CMOS self-calibration DC-DC buck converter with 97% output voltage accuracy. In *2015 IEEE International Symposium on Circuits and Systems (ISCAS)* (pp. 1366-1369). IEEE.
- [23] Khalekuzzaman, M., Fayshal, M. A., & Adnan, H. F. (2024). Production of low phenolic naphtharich biocrude through co-hydrothermal liquefaction of fecal sludge and organic solid waste using water-ethanol co-solvent. *Journal of Cleaner Production*, 140593.





- [24] Archibong, E. E., Ibia, K. T., Muniandi, B., Dari, S. S., Dhabliya, D., & Dadheech, P. (2024). The Intersection of AI Technology and Intellectual Property Adjudication in Supply Chain Management. In B. Pandey, U. Kanike, A. George, & D. Pandey (Eds.), *AI and Machine Learning Impacts in Intelligent Supply Chain* (pp. 39-56). IGI Global. <https://doi.org/10.4018/979-8-3693-1347-3.ch004>
- [25] Islam, Md Ashraful, et al. "Comparative Analysis of PV Simulation Software by Analytic Hierarchy Process."
- [26] Lin, J. H., Yang, S. H., Muniandi, B., Ma, Y. S., Huang, C. M., Chen, K. H., ... & Tsai, T. Y. (2019). A high efficiency and fast transient digital low-dropout regulator with the burst mode corresponding to the power-saving modes of DC–DC switching converters. *IEEE Transactions on Power Electronics*, 35(4), 3997-4008.
- [27] J. -H. Lin et al., "A High Efficiency and Fast Transient Digital Low-Dropout Regulator With the Burst Mode Corresponding to the Power-Saving Modes of DC–DC Switching Converters," in *IEEE Transactions on Power Electronics*, vol. 35, no. 4, pp. 3997-4008, April 2020, doi: 10.1109/TPEL.2019.2939415.
- [28] Dhabliya, D., Dari, S. S., Sakhare, N. N., Dhablia, A. K., Pandey, D., Muniandi, B., ... & Dadheech, P. (2024). New Proposed Policies and Strategies for Dynamic Load Balancing in Cloud Computing. In *Emerging Trends in Cloud Computing Analytics, Scalability, and Service Models* (pp. 135-143). IGI Global.
- [29] Dhabliya, D., Dari, S. S., Sakhare, N. N., Dhablia, A. K., Pandey, D., Muniandi, B., George, A. S., Hameed, A. S., & Dadheech, P. (2024). New Proposed Policies and Strategies for Dynamic Load Balancing in Cloud Computing. In D. Darwish (Ed.), *Emerging Trends in Cloud Computing Analytics, Scalability, and Service Models* (pp. 135-143). IGI Global. <https://doi.org/10.4018/979-8-3693-0900-1.ch006>
- [30] Fayshal, M. A., Uddin, M. J., Haque, M. N., & Niloy, M. N. R. (2024). Unveiling the impact of rapid urbanization on human comfort: a remote sensing-based study in Rajshahi Division, Bangladesh. *Environment, Development and Sustainability*, 1-35.
- [31] Mizan, T., Islam, M. S., & Fayshal, M. A. (2023). Iron and manganese removal from groundwater using cigarette filter based activated carbon
- [32] Dhara, F. T., & Fayshal, M. A. (2024). Waste Sludge: Entirely Waste or a Sustainable Source of Biocrude? A Review. *Applied Biochemistry and Biotechnology*, 1-22.
- [33] T. -F. Yang *et al.*, "Implantable biomedical device supplying by a 28nm CMOS self-calibration DC-DC buck converter with 97% output voltage accuracy," *2015 IEEE International Symposium on Circuits and Systems (ISCAS)*, Lisbon, Portugal, 2015, pp. 1366-1369, doi: 10.1109/ISCAS.2015.7168896.
- [34] Lee, J. J., Yang, S. H., Muniandi, B., Chien, M. W., Chen, K. H., Lin, Y. H., ... & Tsai, T. Y. (2019). Multiphase active energy recycling technique for overshoot voltage reduction in internet-of-things applications. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, 9(1), 58-67.
- [35] J. -J. Lee *et al.*, "Multiphase Active Energy Recycling Technique for Overshoot Voltage Reduction in Internet-of-Things Applications," in *IEEE Journal of Emerging and Selected Topics in Power Electronics*, vol. 9, no. 1, pp. 58-67, Feb. 2021, doi: 10.1109/JESTPE.2019.2949840.

