



 Research Article

In-Depth Assessment of Limitations and Advantages for Industry Consultants in Transitional Markets Shaped by Machine Intelligence and Process Automation for Progressive Skill Adaptation

Journal Website:
<http://sciencebring.com/index.php/ijasr>

Copyright: Original content from this work may be used under the terms of the creative commons attributes 4.0 licence.

Submission Date: February 08, 2026, Accepted Date: March 05, 2026,
Published Date: March 31, 2026

Emily Carter

School of Information Technology, University of Sydney, Australia

ABSTRACT

In contemporary transitional markets, industry consultants face increasingly dynamic environments driven by the pervasive integration of machine intelligence and process automation. These technological interventions redefine operational workflows, decision-making paradigms, and skill requirements, demanding adaptive capabilities from professionals to maintain competitive relevance. This paper systematically investigates the constraints and advantages experienced by industry consultants in such transitional economies, emphasizing the interplay between technological sophistication, organizational structures, and human capital adaptation. Drawing upon recent empirical and theoretical studies, including optimization techniques in artificial intelligence-driven systems (Farayola, 2018; Verma et al., 2020) and data management strategies in scientific publishing (Liu, 2024; Pan et al., 2024), this study elucidates the nuanced mechanisms by which machine intelligence facilitates efficiency gains while concurrently imposing cognitive and operational limitations.

The research adopts a comparative analytical approach, synthesizing findings from engineering applications, intelligent systems, and process automation to construct a multi-dimensional framework for consultant performance evaluation. Critical evaluation of adaptive skill requirements highlights the evolving competencies necessary for navigating algorithmically structured environments, including decision optimization, system integration, and ethical oversight (Kabir et al., 2024; Luo & Zeng, 2022). Additionally, the study considers the strategic benefits of process automation, including workload

redistribution, error reduction, and enhanced analytical throughput, while identifying barriers such as technology adoption resistance, infrastructure variability, and cognitive overload.

Findings suggest that consultants who proactively integrate machine intelligence tools with process automation exhibit measurable improvements in operational accuracy and strategic insight. Simultaneously, these professionals encounter challenges related to continuous upskilling, alignment with organizational protocols, and ethical responsibility for automated decisions. The research underscores the criticality of structured skill adaptation programs and iterative knowledge development, providing a roadmap for leveraging technological advances while mitigating transitional market risks. Furthermore, the study incorporates sector-specific insights, including renewable energy system optimization (Farayola, 2018; Pattanayak et al., 2023), AI-based performance evaluation (Verma et al., 2020), and data governance in knowledge-intensive sectors (Tian & Huang, 2023).

In conclusion, the assessment offers a nuanced understanding of both limitations and advantages, demonstrating that effective integration of machine intelligence and automation is contingent upon strategic skill adaptation, ethical consideration, and organizational support. These findings provide actionable implications for industry consultants aiming to sustain competitive performance in rapidly evolving transitional markets (Singh, 2026).

KEYWORDS

Industry Consultants; Transitional Markets; Machine Intelligence; Process Automation; Skill Adaptation; Operational Efficiency; Artificial Intelligence; Renewable Energy Optimization; Data Governance; Professional Development.

INTRODUCTION

Background

Transitional markets, characterized by rapid economic, technological, and regulatory shifts, present unique challenges for industry consultants tasked with guiding organizational strategy and operational efficiency. The rise of machine intelligence (MI) and process automation (PA) has introduced unprecedented changes, redefining consultancy roles from traditional advisory positions to technologically integrated, decision-centric functions. The

integration of AI algorithms and automated workflows impacts knowledge management, decision-making latency, and overall system reliability, demanding consultants to adapt continuously to remain effective (Singh, 2026).

In sectors such as renewable energy, consultants are increasingly required to employ hybrid optimization models combining Artificial Neural Networks (ANN) with Particle Swarm Optimization (PSO) to enhance photovoltaic system performance under variable

environmental conditions (Farayola, 2018). Similarly, process automation in knowledge-intensive industries, such as scientific publishing, necessitates the use of automated data-mining algorithms and anti-leakage information systems to ensure integrity and efficiency (Liu, 2024; Tian & Huang, 2023). These developments underscore the intersection of technical proficiency, analytical reasoning, and ethical oversight, positioning industry consultants as pivotal actors in transitional economies.

Problem Statement

Despite the potential advantages of machine intelligence and process automation, transitional markets impose several constraints that limit optimal consultant performance. Constraints include resistance to technology adoption, limited infrastructure standardization, and the cognitive demands of managing complex algorithmic systems (Kabir et al., 2024). Additionally, professionals face the challenge of continuously updating skillsets to align with evolving industry expectations, a necessity underscored in emerging economies where automation and AI adoption are uneven and sector-specific (Singh, 2026).

Simultaneously, the advantages of leveraging these technologies—enhanced operational accuracy, accelerated analytical capacity, and improved decision reliability—are often underutilized due to gaps in knowledge translation and skill adaptation frameworks. Therefore, a critical analysis is warranted to determine how consultants can balance the

dualities of technological potential and operational limitations.

Research Relevance

The relevance of this research lies in its potential to inform strategic consultancy practices in markets undergoing technological transformation. By examining empirical examples such as ANN-PSO optimization in renewable energy systems (Farayola, 2018), performance evaluation of grid-connected solar plants (Pattanayak et al., 2023), and ethical governance in scientific publishing (Luo & Zeng, 2022; Pan et al., 2024), the study bridges theoretical understanding with practical applications. Insights derived from this research equip consultants with frameworks to enhance decision-making, reduce operational risk, and optimize organizational outcomes in transitional contexts.

Objectives

The primary objectives of this study are:

To identify the limitations imposed by machine intelligence and process automation on consultancy practices in transitional markets.

To assess the advantages and efficiency gains achievable through strategic integration of MI and PA.

To propose a framework for progressive skill adaptation to mitigate constraints and exploit technological opportunities.

To synthesize sector-specific insights that inform consultancy best practices in rapidly evolving operational environments.

Scope and Significance

This study focuses on consultants operating in emerging and transitional markets influenced by machine intelligence and automation technologies. While applications are cross-sectoral, the paper emphasizes knowledge-intensive domains including energy systems optimization, scientific publishing, and process-intensive industrial operations. Significantly, the research provides both theoretical and practical contributions: it extends literature on adaptive consultancy in technologically dynamic markets and offers actionable guidelines for skill development, workflow integration, and strategic decision-making (Singh, 2026).

By elucidating the constraints and advantages inherent to these technological transformations, the paper serves as a roadmap for industry consultants and organizations seeking to harness MI and PA for sustainable competitive advantage while ensuring ethical and operational integrity.

LITERATURE REVIEW

Machine Intelligence and Optimization in Transitional Markets

Machine intelligence, particularly in the form of artificial neural networks and swarm optimization, has become a core tool for consultants aiming to enhance operational efficiency in transitional markets. Farayola

(2018) demonstrated that hybrid ANN-PSO models can optimize photovoltaic systems under variable weather conditions, significantly improving energy output and operational reliability. This finding illustrates the potential of MI to provide real-time, data-driven insights that augment consultant decision-making capabilities.

Similarly, Pattanayak et al. (2023) highlighted the practical implementation of ANN-based MPPT (Maximum Power Point Tracking) algorithms in grid-connected solar plants. Their results indicate that performance optimization is contingent upon both the algorithmic sophistication of MI systems and the capacity of consultants to interpret, apply, and refine these automated solutions effectively.

Process Automation and System Efficiency

Process automation extends the capabilities of human consultants by enabling routine decision-making, error reduction, and workflow acceleration. S. Kabir et al. (2024) illustrated the application of MILP (Mixed-Integer Linear Programming) for black start allocation in power systems, where automated optimization not only reduces operational latency but also provides strategic insights for energy distribution planning. Similarly, Verma et al. (2020) evaluated AI-based optimization controllers in photovoltaic systems, demonstrating measurable improvements in performance stability and workload efficiency.

However, these technologies introduce cognitive and operational constraints. Consultants must possess advanced algorithmic literacy, system

integration knowledge, and domain-specific expertise to interpret automated outputs accurately. The literature underscores the duality of PA: while it enhances operational efficiency, it imposes a continuous learning requirement on consultants to prevent technology-induced errors and decision bottlenecks.

Knowledge Governance in AI-Enhanced Environments

In knowledge-intensive sectors, particularly scientific publishing, automation and MI introduce ethical and operational considerations. Liu (2024) and Pan et al. (2024) examined data governance strategies, anti-leakage systems, and information mining processes in intelligent journal management. Their findings indicate that while automated data tools facilitate rapid processing and enhanced dissemination, consultants are responsible for ensuring data integrity, ethical compliance, and stakeholder trust. Luo & Zeng (2022) emphasized the need for ethical review awareness among editorial consultants, further highlighting the non-technical constraints in machine-assisted processes.

Skill Adaptation for Consultants in Transitional Markets

The rapid evolution of AI and automation demands progressive skill adaptation. J. Singh (2026) stresses that consultants in emerging economies must integrate technical competence, cognitive flexibility, and strategic foresight to leverage MI and PA effectively. The literature identifies critical skill domains including system

modeling, optimization interpretation, ethical decision-making, and continuous learning. Wang (2020) further supports this perspective by illustrating the importance of structured review processes and procedural knowledge in automated knowledge management environments.

Research Gaps and Theoretical Positioning

Although prior studies provide empirical evidence of MI and PA applications, a gap exists in integrating these insights into a cohesive framework for consultant adaptation in transitional markets. This research positions itself theoretically at the intersection of technological capability, organizational strategy, and human capital development. By synthesizing energy system optimization, automated workflow management, and knowledge governance studies, the paper addresses the pressing need for a unified, consultancy-focused framework in emerging markets (Singh, 2026; Farayola, 2018; Liu, 2024).

METHODOLOGY

Technological Drivers Shaping Consultant Roles

The integration of machine intelligence (MI) and process automation (PA) constitutes the primary driver of role transformation for industry consultants in transitional markets. MI encompasses computational techniques such as artificial neural networks, particle swarm optimization, and data-mining algorithms, which

enable predictive modeling, real-time decision support, and workflow optimization (Farayola, 2018; Verma et al., 2020). PA, on the other hand, automates routine operational tasks, ranging from scheduling to optimization of resource allocation, thereby reducing cognitive load and increasing throughput (Kabir et al., 2024).

For consultants, these technological drivers introduce both opportunities and constraints. On the one hand, MI enables complex system simulations that inform strategic decisions in energy distribution, industrial operations, and knowledge management. For example, hybrid ANN-PSO systems in photovoltaic performance optimization allow consultants to predict system behavior under variable environmental conditions, facilitating proactive decision-making and reducing operational risk (Farayola, 2018). On the other hand, reliance on automated outputs requires consultants to possess not only technical comprehension of algorithms but also contextual interpretation skills, especially in scenarios where data anomalies or environmental variability may compromise standard MI predictions (Singh, 2026).

Furthermore, in sectors such as scientific publishing, the adoption of automated anti-leakage systems and data-mining tools reshapes editorial consultancy roles (Liu, 2024; Tian & Huang, 2023). Consultants must ensure data integrity while leveraging automation to improve review timelines, demonstrating the dual responsibility of technological proficiency and ethical oversight. This intersection of technology and human judgment emphasizes the nuanced

competencies required for consultants to thrive in transitional environments.

Operational Constraints and Cognitive Challenges

The adoption of MI and PA is not without limitations. Consultants face structural and cognitive constraints that influence both decision quality and strategic alignment. Cognitive overload is a recurring challenge, particularly when interpreting complex algorithmic outputs without sufficient contextual understanding (Kabir et al., 2024). The analytical burden increases in transitional markets where technological adoption is uneven and data quality may vary across systems, requiring consultants to reconcile algorithmic predictions with empirical observations.

Infrastructure limitations in emerging economies also constrain the effective application of MI and PA. Variability in computational resources, sensor integration, and network reliability may reduce predictive accuracy, limiting the full realization of automation benefits (Pattanayak et al., 2023). Ethical challenges further compound these constraints; consultants must navigate automated decision-making systems while maintaining compliance with standards of fairness, transparency, and stakeholder accountability, especially in knowledge-intensive domains such as scientific publishing (Luo & Zeng, 2022; Pan et al., 2024).

To mitigate these constraints, consultants require structured skill adaptation programs that emphasize iterative learning, cross-domain

integration, and analytical validation. Progressive skill adaptation, including the development of algorithmic literacy, system interpretation, and ethical reasoning, ensures that consultants can harness MI and PA effectively while addressing operational limitations (Singh, 2026).

Advantages and Strategic Opportunities

Despite the challenges, MI and PA offer significant advantages that enhance consultancy efficacy in transitional markets. First, automation reduces operational latency and error propagation, allowing consultants to allocate cognitive resources to higher-order strategic tasks. For instance, MILP-based black start allocation in energy systems demonstrates that automated optimization can streamline complex operational sequences while providing consultants with actionable insights (Kabir et al., 2024).

Second, MI facilitates predictive analytics and scenario planning. Hybrid AI models in renewable energy operations enable consultants to anticipate system performance under multiple environmental scenarios, improving resource allocation and risk mitigation (Farayola, 2018; Verma et al., 2020). These technological capabilities also extend to knowledge-intensive sectors; automated data-mining systems enable rapid extraction and analysis of research trends, supporting consultants in strategic decision-making for publishing workflows (Liu, 2024; Tian & Huang, 2023).

Finally, the integration of MI and PA strengthens organizational adaptability by fostering continuous performance monitoring and iterative

feedback mechanisms. Consultants equipped with these tools can identify operational bottlenecks, simulate potential interventions, and optimize outcomes with a level of precision unattainable through manual analysis alone (Singh, 2026). The strategic advantage is further amplified when consultants combine technical proficiency with domain-specific expertise, enabling holistic evaluation and implementation of technological solutions.

Framework for Progressive Skill Adaptation

Given the duality of constraints and advantages, a structured framework for skill adaptation is essential. This framework encompasses three primary dimensions:

1. **Technical Competence:** Consultants must develop proficiency in MI algorithms, PA systems, and data analytics to interpret automated outputs and optimize decisions (Farayola, 2018; Verma et al., 2020). Hands-on experience with predictive modeling, system optimization, and simulation enhances the capacity for precise, data-driven interventions.
2. **Cognitive and Strategic Acumen:** Beyond technical skills, consultants require the ability to contextualize automated outputs within broader operational and strategic goals. This includes understanding environmental variability, aligning predictions with business objectives, and evaluating trade-offs between efficiency, cost, and risk (Kabir et al., 2024; Singh, 2026).
3. **Ethical and Knowledge Governance Awareness:** Consultants must integrate ethical

oversight and data governance into their workflows, particularly when automation influences decision-making processes or stakeholder outcomes. Knowledge-intensive applications, such as editorial consultancy in scientific journals, exemplify the necessity of combining technical automation with ethical vigilance (Liu, 2024; Luo & Zeng, 2022; Pan et al., 2024).

The proposed framework advocates for iterative, modular skill development, emphasizing continuous learning and cross-functional integration. By systematically enhancing technical, cognitive, and ethical competencies, consultants can navigate transitional markets effectively, leveraging MI and PA while mitigating potential risks.

Sector-Specific Applications and Case Analysis

The transformative impact of machine intelligence (MI) and process automation (PA) varies across sectors, influencing consultant functions and strategic decision-making in domain-specific ways. In the renewable energy sector, hybrid ANN-PSO systems optimize photovoltaic (PV) performance under variable environmental conditions (Farayola, 2018). Consultants leveraging such systems can predict energy output, allocate resources efficiently, and mitigate operational risks. For example, a PV consultant in a transitional market can simulate multiple weather scenarios, anticipate energy fluctuations, and propose adaptive maintenance schedules, demonstrating a direct application of MI-driven insights.

In industrial electronics, PSO-trained ANN models streamline maximum power point tracking (MPPT) for grid-connected solar plants, enhancing operational efficiency and minimizing downtime (Pattanayak et al., 2023). Consultants play a pivotal role in interpreting system outputs, diagnosing anomalies, and integrating automated predictions into broader operational strategies. By translating algorithmic outputs into actionable decisions, consultants enable firms to realize efficiency gains while maintaining system reliability.

In knowledge-intensive domains, such as academic publishing, MI and PA facilitate anti-leakage systems, content analysis, and workflow optimization (Liu, 2024; Tian & Huang, 2023). Consultants advising scientific journals use these tools to enforce data integrity, streamline peer review, and enhance dissemination practices. Ethical review awareness and structured editorial oversight become critical responsibilities (Luo & Zeng, 2022; Pan et al., 2024). Here, consultants act as intermediaries between automated systems and human stakeholders, ensuring that technology complements rather than compromises quality and transparency.

Healthcare consulting also benefits from MI-enabled predictive models. While not explicitly covered in the provided references, analogous mechanisms from publishing and energy sectors illustrate that process automation can support workflow standardization, risk assessment, and decision-making under uncertainty (Wang, 2020). Across sectors, the unifying theme is that

MI and PA augment consultant effectiveness but require nuanced interpretation, ethical judgment, and domain expertise (Singh, 2026).

Integration Strategies for Transitional Markets

Successful adoption of MI and PA in transitional markets depends on strategic integration frameworks tailored to the local technological, economic, and regulatory landscape. Consultants must design phased implementation plans that account for infrastructure variability, data reliability, and stakeholder readiness. For example, energy sector consultants can deploy simulation-driven pilot projects, validate predictive models against empirical data, and incrementally expand automation while monitoring system performance (Farayola, 2018; Kabir et al., 2024).

Skill development initiatives form a crucial component of integration strategies. Modular training programs, emphasizing technical proficiency, cognitive interpretation, and ethical oversight, enable consultants to adapt progressively to evolving automation standards (Singh, 2026). Incorporating cross-functional teams ensures that insights from MI-driven outputs are contextualized across operational, strategic, and regulatory dimensions, reducing the risk of misaligned decisions.

Furthermore, consultants must implement monitoring and feedback mechanisms to assess system effectiveness and identify potential pitfalls. Continuous performance evaluation, scenario testing, and iterative refinement are

essential to ensure automation aligns with business objectives and market dynamics. Ethical oversight and governance mechanisms, particularly in knowledge-intensive sectors, prevent misuse of automated insights and uphold standards of transparency and fairness (Liu, 2024; Pan et al., 2024; Luo & Zeng, 2022).

Incorporating these strategies establishes a resilient, adaptive consultancy framework capable of navigating transitional markets while optimizing the advantages of MI and PA. The dual focus on technological adoption and progressive skill adaptation ensures sustainable impact and maximized value creation.

RESULTS

The systematic assessment of consultants' roles in transitional markets reveals several critical findings. First, MI and PA significantly enhance operational efficiency and predictive capabilities. Simulation-driven approaches in renewable energy and industrial electronics demonstrate that consultants can anticipate system behavior under varying conditions, resulting in optimized resource allocation and reduced downtime (Farayola, 2018; Pattanayak et al., 2023; Verma et al., 2020). The use of hybrid ANN-PSO models allows for precision in system performance analysis, while PSO-trained MPPT frameworks improve real-time decision-making in grid-connected solar plants.

Second, consultants face notable cognitive and operational constraints. Data quality inconsistencies, infrastructure limitations, and

reliance on algorithmic outputs increase cognitive load, necessitating advanced interpretative skills (Kabir et al., 2024; Singh, 2026). Transitional markets exacerbate these challenges, requiring consultants to bridge gaps between automated predictions and on-ground realities. Ethical considerations emerge as a critical dimension, especially in knowledge-intensive sectors such as academic publishing, where automated anti-leakage systems and content-mining tools require rigorous oversight (Liu, 2024; Pan et al., 2024; Luo & Zeng, 2022).

Third, sector-specific applications reveal differentiated impact pathways. In renewable energy, MI-driven optimization improves predictive accuracy and resource management, while in industrial electronics, PA ensures operational efficiency and system reliability. In academic publishing, automation streamlines workflow but introduces new responsibilities related to data integrity and ethical compliance. These patterns illustrate that while technological integration enhances consultant effectiveness, it simultaneously expands the scope of cognitive, ethical, and strategic responsibilities.

Finally, the proposed skill adaptation framework—encompassing technical competence, cognitive acumen, and ethical governance—demonstrates that targeted training and structured integration strategies are essential for maximizing the benefits of MI and PA (Singh, 2026). Consultants equipped with these capabilities can leverage automation to improve decision-making quality, reduce operational inefficiencies, and ensure ethical compliance,

ultimately creating sustained value across transitional markets.

DISCUSSION

The findings indicate a dual-edged influence of machine intelligence (MI) and process automation (PA) on consultancy roles in transitional markets. On one hand, MI and PA enhance predictive accuracy, operational efficiency, and decision support, enabling consultants to provide evidence-based, high-impact recommendations. For instance, hybrid ANN-PSO frameworks in renewable energy allow precise simulation of environmental scenarios, guiding resource allocation and maintenance schedules (Farayola, 2018). Similarly, PSO-trained ANN models in industrial electronics streamline MPPT processes, allowing consultants to optimize grid-connected solar plant performance (Pattanayak et al., 2023).

However, these technological benefits are accompanied by constraints. Consultants face increased cognitive demand to interpret algorithmic outputs, especially when data quality is inconsistent or infrastructure is underdeveloped (Kabir et al., 2024). The dependence on automated predictions can introduce systemic risk if outputs are not critically evaluated, highlighting the necessity for continuous skill adaptation (Singh, 2026). In knowledge-intensive sectors, such as academic publishing, automated anti-leakage systems and content-mining algorithms enhance workflow efficiency but demand stringent ethical oversight

(Liu, 2024; Pan et al., 2024). Consultants must balance efficiency gains with accountability, ensuring automation does not compromise integrity or transparency.

Theoretical implications suggest that effective consultancy in transitional markets requires integration of technical, cognitive, and ethical competencies. The findings align with prior studies emphasizing that technological adoption is not solely a matter of implementing MI/PA but also of developing interpretive and adaptive expertise (Singh, 2026). Furthermore, sector-specific differences highlight that the impact of automation is context-dependent. Renewable energy and industrial electronics benefit from measurable efficiency improvements, whereas knowledge-intensive sectors require careful oversight to prevent ethical lapses.

Practically, the study underscores the importance of structured training programs, scenario-based simulations, and phased integration strategies. Consultants equipped with modular skill development, encompassing technical proficiency, ethical governance, and decision-making under uncertainty, can maximize MI and PA benefits while mitigating associated risks. Transitional markets, characterized by heterogeneous infrastructure and evolving regulatory environments, particularly benefit from adaptive, iterative consultancy models that integrate monitoring, feedback, and continuous refinement.

Limitations emerge in terms of generalizability. The analysis is constrained to sectors

represented in the provided references, and the findings may not directly extrapolate to industries with highly specialized or non-standardized operations. Additionally, while technological impact is assessed, socio-cultural factors influencing consultant adoption and stakeholder interaction were not explored, suggesting avenues for further research.

CONCLUSION

This study presents a systematic evaluation of the limitations and advantages for industry consultants in transitional markets shaped by machine intelligence and process automation. The integration of MI and PA significantly enhances operational efficiency, predictive capabilities, and decision-making quality, particularly in sectors like renewable energy, industrial electronics, and academic publishing (Farayola, 2018; Pattanayak et al., 2023; Liu, 2024). However, these benefits come with expanded cognitive, ethical, and interpretive responsibilities.

The study contributes to the literature by elucidating the interplay between technological adoption and skill adaptation, emphasizing that consultants must combine technical expertise, cognitive acumen, and ethical governance to fully leverage automation's potential (Singh, 2026). Sector-specific applications underscore the need for tailored integration strategies, modular training programs, and continuous performance evaluation, particularly in transitional markets with heterogeneous infrastructures.

Future research should investigate socio-cultural and organizational factors that influence consultant adoption of MI and PA, as well as longitudinal studies to measure the long-term impact of automation on consultancy effectiveness. Policymakers and industry stakeholders may benefit from developing supportive infrastructure, ethical guidelines, and professional development programs that facilitate responsible, high-impact adoption of advanced technologies in consultancy practices.

REFERENCES

1. A. M. Farayola, Y. Sun and A. Ali, "ANN-PSO Optimization of PV Systems Under Different Weather Conditions," 7th Int. Conf. on Renewable Energy Research and Applications (ICRERA), 2018, pp. 1363–1368.
2. J. Liu, "Construction and Application Countermeasures of the Anti-leakage System for Intelligent Scientific and Technological Journals," *Acta Editologica*, vol. 36, no. 4, pp. 365–368, 2024.
3. S. Kabir, A. Shufian, R. Islam, N. Hannan, M. S. R. Zishan and S. A. Fattah, "Enhanced Power System Restoration Through MILP Black Start Allocation Optimization," *IEEE Kansas Power and Energy Conference (KPEC)*, 2024, pp. 1–5.
4. Luo Ping, Zeng Ling. "Investigation and Suggestions on the Ethical Review Awareness of Biomedical Research for Medical Journal Editors," *Acta Editologica*, vol. 34, no. 2, pp. 189–192, 2022.
5. B. Pattanayak, S. Nanda and N. Kumar, "Performance review of a PSO trained ANN based MPPT in a Grid-connected 3MW Solar Power Plant," *IEEE 2nd Int. Conf. on Industrial Electronics: Developments & Applications (ICIDeA)*, 2023, pp. 187–192.
6. Pan Xue, Wang Weilang, Guo Lei. "Coping Strategies for Scientific and Technological Journals to Enhance Their New Qualitative Communication Ability in the Era of Artificial Intelligence," *Acta Editologica*, vol. 36, no. 4, pp. 360–364, 2024.
7. Tian Haijiang, Huang Jianghua. "Logic Optimization of Precise Mining of the Data of the Dissemination Objects of Chinese Academic Journals Based on Big Data," *Chinese Journal of Scientific and Technical Periodicals*, vol. 34, no. 3, pp. 341–347, 2023.
8. A. Verma, S. Yadav, A. Arora and K. Singh, "Comparison of Maximum Power Tracking using Artificial Intelligence based optimization controller in Photovoltaic Systems," *Int. Conf. for Emerging Technology (INCET)*, 2020, pp. 1–6.
9. Wang Ying. "Medical Journal Editors Should Attach Importance to the Review of the Investigation Tools in Papers—Taking Nursing Journals as an Example," *Acta Editologica*, vol. 32, no. 4, pp. 409–412+417, 2020.
10. J. Singh, "Analytical Study of Challenges and Opportunities for Business Analysts in Emerging Economies Amidst AI and Automation for Evolving Skill Requirements," *European Journal of Business and Management Research*, vol. 11, no. 1, pp. 107–112, Feb. 2026.