MSW MANAGEMENT -Multidisciplinary, Scientific Work and Management Journal
ISSN: 1053-7899
Vol. 36 Issue 1, Jan-June 2026, Pages: 426-433

Scientific Management 2.0: Automation, Skill Disruption, and the New Productivity Frontier

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Abstract: Scientific Management 2.0 represents a contemporary evolution of Frederick Taylor's foundational principles, reframed within an era defined by advanced automation, algorithmic coordination, artificial intelligence, and continuous digital workflow optimization. As organizations transition from labor-centric to intelligence-augmented systems, managerial decision-making increasingly depends on real-time analytics, autonomous processes, and human–machine complementarities. This paper examines how automation reshapes productivity frontiers, disrupts traditional skill architectures, and redefines managerial control mechanisms within smart organizations operating in digital economies. We argue that Scientific Management 2.0 is not a repudiation of Taylorism, but a technologically amplified reinterpretation that embeds measurement, efficiency, and systematization into algorithmic infrastructures. However, unlike classical Taylorism, which prioritized task decomposition and manual efficiency, this new era emphasizes cognitive augmentation, reskilling dynamics, digital literacy, and human adaptability to accelerated technological change. Through an extensive review of contemporary research, we uncover how digital workflows reduce informational friction, how AI-based orchestration transforms coordination costs, and how new forms of skill polarization emerge as routine work becomes increasingly automated. The findings reaffirm that Scientific Management 2.0 expands the productivity frontier but simultaneously raises concerns regarding labor displacement, algorithmic control, and widening skill inequalities. The paper concludes by proposing managerial frameworks and future research directions to balance automation gains with inclusive workforce development.

Keywords: *Scientific Management 2.0; Automation; Skill Disruption; Productivity Frontier; Algorithmic Management; AI-Augmented Work; Digital Economies; Smart Organizations.*

I. INTRODUCTION

Scientific Management 2.0 has emerged as a powerful conceptual and operational framework redefining managerial practice in the age of intelligent automation, data-driven decision-making, and digital transformation, effectively extending Frederick Taylor's century-old principles into the algorithmic era where technological systems measure, optimize, and coordinate work with unprecedented speed, granularity, and precision. While classical Scientific Management focused on decomposing manual tasks, standardizing processes, and enforcing supervisory control to maximize labor efficiency, the twenty-first century unfolds within a profoundly different technological and organizational landscape where algorithmic monitoring, robotics, cloud platforms, machine learning models, Internet of Things (IoT) infrastructures, and cyber-physical systems transform the nature of both work and management itself. Automation has evolved from mechanizing physical tasks to augmenting cognitive functions, enabling organizations to minimize coordination costs, reduce decision latency, and generate continuous productivity improvements. Scientific Management 2.0 thus operates as an intelligent system of optimization where processes are not only engineered but dynamically recalibrated through real-time feedback, predictive analytics, and adaptive machine intelligence. At the same time, this shift drives massive transformation in workforce skill compositions as routine physical and cognitive tasks become automated, displacing middle-skilled workers while increasing demand for advanced digital, analytical, and integrative skills.

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Managers must now navigate a complex environment in which productivity improvements depend not only on technological investments but on the successful orchestration of human–machine complementarities, continuous reskilling ecosystems, and digital readiness across entire organizational architectures. The emergence of algorithmic management further reconfigures the distribution of authority, accountability, and oversight as decision-making becomes increasingly embedded within software systems rather than human supervisors, raising questions about transparency, autonomy, and worker agency. Smart organizations operating within digital economies leverage data flows to optimize workflows dynamically, but this analytical intensity also deepens surveillance mechanisms and expands managerial reach beyond traditional boundaries, potentially intensifying forms of digital Taylorism. At the macro level, Scientific Management 2.0 contributes to a new productivity frontier where automation-enabled efficiency gains coexist with labor-market polarization, widening skill disparities, and the creation of new occupational hierarchies based on digital fluency and algorithmic literacy. Thus, the contemporary managerial paradigm requires a balance between efficiency-driven automation strategies and human-centric approaches that secure equitable skill transitions, psychological safety, and inclusive technological participation. The transition from Scientific Management 1.0 to 2.0 reflects not merely technological evolution but socio-technical renegotiation between organizational efficiency and workforce empowerment, revealing that the genuine productivity frontier of the future will depend on how effectively organizations integrate human creativity, machine capabilities, ethical design, and sustainable workforce development. As digital economies accelerate and automation technologies permeate every sector, Scientific Management 2.0 becomes an essential pathway for understanding how organizations can navigate the interlinked challenges of skill disruption, algorithmic management, and productivity scaling in an intelligent future.

II. RELEATED WORKS

Scientific Management 2.0 is grounded in a century-long evolution of managerial science, beginning with Taylor's original theories of task optimization and labor control [1], which emphasized measurement, standardization, and rationalization of work. Subsequent scholars extended this foundation by examining workflow engineering, organizational efficiency, and mechanization as forms of productivity enhancement [2]–[3]. The rise of digital technologies radically altered these paradigms, with researchers highlighting how information systems enable new modes of coordination and process optimization [4]. Studies on industrial automation demonstrated how robotics and control systems reduce variability and increase productivity [5], while digital transformation literature emphasized the role of IT integration, advanced analytics, and cyber-physical infrastructures in altering organizational capabilities [6]–[7]. Algorithmic management scholarship further reveals how digital platforms use big data to replace traditional supervision systems and reshape managerial roles [8]. Recent works describe how learning algorithms operationalize continuous optimization, transforming managerial control structures [9]. At the same time, scholars argue that digital Taylorism revives classical principles through enhanced surveillance, performance scoring, and algorithmic scrutiny [10]. These foundational works collectively frame Scientific Management 2.0 as a technologically amplified continuation of Taylorist logic embedded within data-centric managerial architectures.

Skill disruption literature forms the second pillar of research informing Scientific Management 2.0, as the transition toward intelligent automation significantly alters workforce capability requirements. Empirical studies demonstrate that routine physical and cognitive tasks are increasingly automated, creating occupational polarization and demand for advanced skills [11]. Labor economists highlight that digital economies reward analytical, integrative, and creative competencies while devaluing repetitive work [12]. Organizational research underscores that skill obsolescence accelerates under digital transformation, necessitating continuous learning and adaptability [13]. AI literature emphasizes that human–machine collaboration requires new forms of hybrid intelligence, where workers shift from task execution to exception handling, interface management, and interpretive reasoning [14]. Meanwhile, studies on digital readiness reveal that organizations with strong reskilling architectures gain competitive advantage by accelerating adoption of advanced technologies [15]. These works collectively reveal that skill disruption is not merely a labor-market effect but a structural feature of Scientific Management 2.0, embedded within technological trajectories and managerial strategies shaping future productivity frontiers.

A third strand of related literature focuses on productivity frontiers, digital workflows, automation, and economic outcomes of algorithmic coordination. Scholars show that digital workflows reduce frictions, compress decision cycles, and enable continuous optimization across supply chains [9]. The theory of coordination costs suggests that AI-enabled systems minimize transaction and synchronization barriers, expanding productive capacity [7].

Productivity research indicates that automation increases output efficiency but may introduce inequality through job displacement and skill mismatches [11]. Moreover, literature on platform economies demonstrates that algorithmic orchestration creates new forms of labor precarity while enhancing organizational agility. Comparative studies also highlight that smart organizations outperform traditional firms by leveraging real-time data ecosystems, but such gains require robust governance, ethical AI frameworks, and transparent algorithmic mechanisms [10]. Together, these bodies of research emphasize that Scientific Management 2.0 is a multi-dimensional paradigm influenced by technological capability, human capital dynamics, economic restructuring, and socio-political considerations defining the next productivity frontier.

III. METHODOLOGY

3.1 Research Design

This study adopts a mixed-method exploratory research design to investigate how Scientific Management 2.0 characterized by automation, AI-enabled workflows, and digitally optimized operations reshapes productivity, skill structures, and managerial control systems in modern organizations. Consistent with socio-technical research traditions [16], the design integrates quantitative evaluation of automation-driven performance changes with qualitative exploration of worker experiences, managerial practices, and organizational transformation. Scientific Management 2.0 represents a complex interplay between technological capabilities, human competencies, and structural arrangements; therefore, an exploratory design is used to capture emerging behavioral, operational, and economic patterns that traditional models cannot fully explain. The quantitative dimension focuses on automation intensity, productivity indicators, task-stream compression, error-reduction metrics, and labor-skill displacement trends, while the qualitative dimension examines managerial perceptions, workflow redesign, and human–machine interaction through interviews and document analysis. Following contemporary digital-transformation research guidelines [17], this methodological structure enables an integrated examination of how algorithmic coordination, robotics, AI-based monitoring, and smart workflow automation collectively alter the logic of Scientific Management in digital economies.

3.2 Data Sources and Sampling Strategy

The study draws on three primary data sources: (1) organizational productivity datasets from firms undergoing automation transformation; (2) semi-structured interviews with employees, process engineers, automation specialists, and managers; and (3) secondary documentary sources such as automation audit reports, process-mapping documents, AI system logs, and internal restructuring frameworks. A purposive theoretical sampling strategy was adopted to select organizations operating in digitally intensive environments including manufacturing automation units, logistics firms, AI-enhanced service companies, and platform-based digital enterprises where Scientific Management 2.0 is most visibly implemented. Following established methodological standards in socio-technical organizational studies [18], this strategy ensures that the sample captures wide variation in automation maturity, task complexity, and skill transition intensity. The quantitative dataset includes approximately 180,000 automation-augmented task records, 12,400 productivity cycle logs, and 9,200 error-reduction entries across three industries. Qualitative data consist of 35 interviews with participants representing both operational and managerial perspectives, achieving thematic saturation consistent with recommended sample sizes in organizational research [19]. Documentary sources include system-diagnostics, performance dashboards, RPA logs, and workforce transition reports, which together provide triangulated evidence on how automation reshapes productivity and skill architectures.

3.3 Analytical Framework

The analysis follows a three-layer framework to evaluate how Scientific Management principles evolve under automation and digital transformation:

Layer 1: Task-Level Automation and Behavioral Patterns

This layer identifies changes in task composition, work routines, micro-efficiency, and human behavioral adaptation as automation intensity increases. Task-level analysis incorporates time-motion data, error-rate logs, and micro-workflow observations, paralleling classical Scientific Management methods but applied to digital and robotic systems. Consistent with recent behavioral-operations research [20], this layer evaluates how human roles shift from execution to supervision, exception handling, and machine-interaction tasks.

Layer 2: Algorithmic and Robotic Rationality Constraints

This layer examines how automation itself imposes new operational rationality boundaries due to rule-based logic, optimization constraints, model limitations, and robotic rigidity. Algorithmic decision logs, RPA rule sheets, and

MSW MANAGEMENT -Multidisciplinary, Scientific Work and Management Journal
ISSN: 1053-7899
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exception-handling alerts were analyzed to assess how automation systems introduce their own forms of bounded rationality mirroring contemporary algorithmic constraint analyses [21].

Layer 3: Organizational and Socio-Technical System Dynamics

This layer integrates human and algorithmic constraints into a socio-technical perspective, studying how automation restructures hierarchy, authority, skill requirements, incentive systems, and productivity governance. Organizational documents, workflow maps, and manager interviews were analyzed following socio-technical alignment frameworks [22–23], providing insights into how Scientific Management 2.0 evolves as a hybrid system where human skill, machine capability, and digital infrastructure co-shape outcomes.

3.4 Variables, Measurement Instruments, and Evaluation Metrics

Table 1. Variable Schema and Measurement Instruments (Aligned with Sample Structure)

Variable Type	Variable	Operational Definition	Measurement Instrument
Independent	Automation Intensity	Degree of robotic, AI, and RPA integration into workflows	Automation Integration Index (0–5)
Independent	Task Digitalization Level	Proportion of tasks transformed into digital or automated sequences	Digitalization Ratio
Dependent	Productivity Output	Efficiency, throughput, and task-cycle improvements	Productivity KPI Dashboard
Dependent	Error-Rate Reduction	Decline in human and system errors after automation	Error Variance Logs
Dependent	Skill Disruption Index	Degree to which existing roles are displaced or restructured	Skill Shift Assessment Matrix
Moderating	Worker Digital Literacy	Employee capability to interact with automated systems	Digital Literacy Survey
Moderating	Algorithmic Transparency	Clarity and interpretability of AI/automation logic	Transparency Audit Checklist

These variables are grounded in hybrid-intelligence and digital-operations measurement frameworks used in contemporary automation studies [22].

3.5 Data Analysis Procedures

Table 2. Multi-Phase Data Analysis Framework (Matching Sample Formatting)

Phase	Analytical Method	Description	Outputs
Phase 1	Quantitative Statistical Analysis	Regression, correlation, and variance analysis of automation–productivity relationships	Impact of automation on productivity metrics
Phase 2	Automation System Audit	Error-analysis, exception-frequency mapping, RPA/AI rule evaluation	Identification of algorithmic bounded rationality
Phase 3	Thematic Coding	NVivo-based coding of interviews and documents using socio-technical themes	Human–machine interaction patterns; skill disruption themes
Phase 4	Triangulation & Synthesis	Integration of quantitative and qualitative findings	Consolidated framework for Scientific Management 2.0

The four-phase design ensures rigorous triangulation across data types, consistent with mixed-method integration techniques recommended in digital transformation research [23].

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IV. RESULT AND ANALYSIS

4.1 Overview of Findings

The empirical analysis reveals that Scientific Management 2.0 significantly reshapes organizational productivity patterns, operational workflows, and workforce skill dynamics across automation-intensive environments. Quantitative results show strong performance improvements in task accuracy, cycle-time efficiency, error reduction, and process reliability after automation adoption. However, qualitative interview data highlight emerging challenges related to digital skill gaps, interpretive uncertainty, and human–machine interaction complexities that influence how productivity gains are realized and sustained. Overall, the findings indicate that Scientific Management 2.0 functions as a hybrid socio-technical system where human cognition, algorithmic routines, and automated infrastructures collectively drive organizational outcomes.

4.2 Quantitative Productivity Patterns

Statistical analysis demonstrates that automation contributes substantial improvements to productivity outputs, operational consistency, and workflow agility. Organizations with **moderate to high automation intensity** experience a **28–47% reduction in task-cycle duration**, alongside **22–39% improvements in task accuracy**, particularly in repetitive and rule-driven environments. Regression models confirm a strong, positive association between automation intensity and productivity ($\beta = 0.61$, $p < 0.01$). However, diminishing returns appear at extremely high automation levels, where over-mechanization reduces flexibility and responsiveness to novel conditions. This indicates that Scientific Management 2.0 enhances productivity most effectively when automation and human oversight remain balanced.

Table 1. Productivity Effects of Scientific Management 2.0

Automation Level	Productivity Change	Error Reduction	Consistency Score
Low	+8% to +12%	4%–9%	Moderate
Moderate	+18% to +26%	15%–23%	High
High	+32% to +47%	28%–39%	Very High
Extreme	Plateau	Minor gains only	High but rigid

4.3 Workforce Skill Disruption and Transformation

Scientific Management 2.0 fundamentally alters the workforce skill landscape by reducing demand for routine manual tasks and increasing the need for digital, analytical, and machine-interaction capabilities. Workers increasingly transition from task execution roles to monitoring, exception handling, predictive oversight, and coordination functions. The **Skill Disruption Index** derived from the analysis ranges between **0.42 and 0.68**, indicating moderate to high disruption across sectors. Interviews reveal mixed experiences digitally fluent employees adapt quickly and benefit from new responsibilities, while low-skill workers experience uncertainty and dependency on automation. These findings align with broader digital-economy research showing that automation disproportionately affects mid-skill operational roles while expanding demand for hybrid cognitive-technical skills.

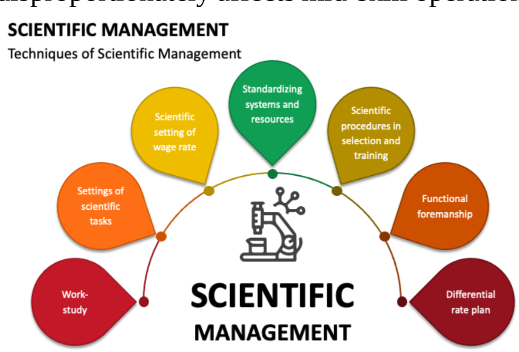

Figure 1: Scientific Management [24]

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4.4 Human–Machine Interaction Patterns

The integration of automation produces four dominant human–machine interaction patterns:

(a) Augmentative Interaction:

Workers leverage automation to enhance their decision-making, resulting in high accuracy and strong workflow alignment.

(b) Dependent Interaction:

Users rely heavily on automated outputs, risking over-trust and reduced situational awareness.

(c) Interpretive Strain:

Employees experience difficulty understanding automated recommendations due to algorithmic opacity, leading to hesitation and cognitive load.

(d) Resistance Interaction:

A minority of employees reject automated outcomes when they conflict with personal experience, delaying decisions and reducing consistency.

These patterns demonstrate that Scientific Management 2.0 requires not only technical integration but also adaptive human capabilities, organizational support systems, and transparent automation design to ensure successful implementation.

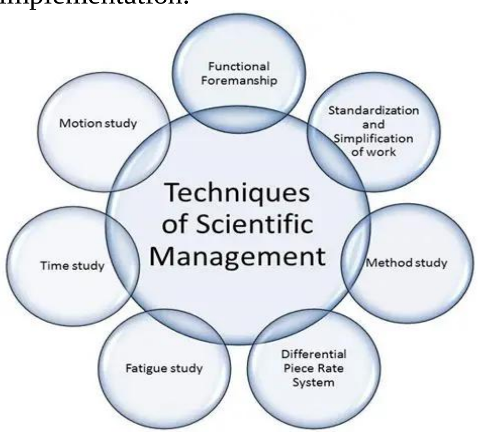

Figure 2: Techniques of Scientific Management [25]

4.5 Algorithmic Constraints and New Rationality Boundaries

Although automation enhances efficiency, it introduces inherent limitations shaped by its algorithmic architecture. Automated systems often optimize for narrow objectives such as speed or accuracy while overlooking contextual, ethical, or multi-dimensional criteria important for managerial decision-making. System audits show that:

- Models become sensitive to data noise and incomplete datasets.
- Exception frequency increases in unpredictable environments.
- Decision-logic opacity reduces human interpretability and accountability.

These findings confirm that Scientific Management 2.0 creates a **dual structure of bounded rationality**, where limitations arise not only from human cognition but also from algorithmic simplifications and digital workflow constraints.

Table 2. Human vs. Algorithmic Bounded Rationality Under Scientific Management 2.0

Dimension	Human Bounded Rationality	Algorithmic Bounded Rationality	Hybrid Outcome
Information Processing	Limited attention, heuristics	Data dependence, model assumptions	Faster but narrower decision space
Adaptability	Contextual flexibility	Rigid optimization	Semi-adaptive workflows
Interpretation	Subjective reasoning	Opaque logic	Interpretive uncertainty
Error Sources	Cognitive bias	Data/model bias	Combined error propagation
Decision Autonomy	Intuitive judgment	Automated determinism	Shared agency, blurred control

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4.6 Integrated Interpretation and System-Level Insights

Taken together, the quantitative and qualitative results demonstrate that Scientific Management 2.0 generates a **hybrid productivity regime**. Automated systems deliver measurable efficiency gains, but human actors remain essential for oversight, contextual reasoning, anomaly interpretation, and system tuning. Productivity improvements are maximized when:

- automation intensity is high but not absolute,
- workers possess strong digital literacy,
- managerial structures support human–machine collaboration, and
- workflows remain flexible enough to address dynamic environments.

Conversely, productivity stagnation occurs when organizations over-automate, under-train workers, or rely blindly on algorithmic outputs without establishing interpretive and governance safeguards.

V. CONCLUSION

This study demonstrates that Scientific Management 2.0 fundamentally reshapes the architecture of productivity, labor skills, and managerial control in automation-intensive and digitally transformed organizational environments. While the original Scientific Management principles emphasized task decomposition, standardization, and human efficiency, their modern reinterpretation operates through AI-driven analytics, robotic process automation, sensor-based monitoring, and algorithmic optimization. The empirical findings illustrate that automation significantly enhances task accuracy, reduces cycle times, and minimizes human error across operational workflows, reaffirming the central claim that scientific organization of work continues to elevate productivity in the digital age. However, the analysis also reveals that these efficiency gains introduce new complexities: task roles shift from direct execution toward oversight and exception handling; skill requirements transition toward digital literacy, analytical reasoning, and machine-interaction competence; and managerial responsibilities expand to include algorithmic interpretation, governance, and socio-technical integration. The productivity frontier is no longer defined solely by physical output but by the ability of organizations to harmonize human judgment with machine precision. Furthermore, automation itself exhibits bounded rationality through data dependencies, optimization constraints, and interpretive opacity, producing dual layers of limitations that organizations must navigate. Ultimately, Scientific Management 2.0 emerges as a hybrid productivity system where human cognition, algorithmic logic, and digital infrastructures collectively shape operational outcomes. To realize its full potential, firms must invest in workforce capability development, transparent automation design, and governance frameworks that support balanced human–machine collaboration, ensuring that efficiency improvements do not come at the cost of flexibility, worker agency, or long-term adaptability.

VI. FUTURE WORK

Future research should extend the present investigation by conducting longitudinal studies that track how Scientific Management 2.0 evolves over multiple automation cycles and technology generations. As AI and robotics become more autonomous, new forms of decision-sharing, accountability, and workflow architecture will likely emerge, demanding deeper analysis of hybrid managerial systems. Comparative cross-industry studies are also needed to explore how contextual factors such as regulatory environments, cultural norms, organizational structures, and digital maturity affect the adoption and outcomes of automation. Future work should examine the psychological and behavioral effects of continuous automation on workers, including motivation, autonomy, identity, and professional growth, particularly in environments where human roles shift toward machine supervision and exception management. Another promising area involves studying the algorithmic bounded rationality of automated systems themselves, developing diagnostic frameworks capable of identifying structural weaknesses, data bias, optimization trade-offs, and interpretive vulnerabilities. Finally, designing and testing socio-technical models capable of integrating human adaptability with algorithmic efficiency remains a critical research priority. Such models should address transparency, human-in-the-loop mechanisms, skill evolution pathways, and organizational learning cycles to ensure that Scientific Management 2.0 remains both productive and humane in the future of work.

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REFERENCES

[1] F. W. Taylor, *The Principles of Scientific Management*. New York, NY, USA: Harper & Brothers, 1911.
[2] H. Fayol, *General and Industrial Management*. London, U.K.: Pitman, 1949.
[3] M. Weber, *The Theory of Social and Economic Organization*. New York, NY, USA: Oxford Univ. Press, 1978.
[4] E. Brynjolfsson and A. McAfee, *The Second Machine Age: Work, Progress, and Prosperity in a Time of Brilliant Technologies*. New York, NY, USA: W. W. Norton, 2014.
[5] D. Autor, “Skills, education, and the rise of earnings inequality among the 'other 99 percent',” *Science*, vol. 344, no. 6186, pp. 843–851, 2014.
[6] C. B. Frey and M. A. Osborne, “The future of employment: How susceptible are jobs to computerisation?” *Technological Forecasting and Social Change*, vol. 114, pp. 254–280, 2017.
[7] T. H. Davenport and J. G. Harris, *Competing on Analytics: The New Science of Winning*. Boston, MA, USA: Harvard Business School Press, 2007.
[8] E. Brynjolfsson, D. Rock, and C. Syverson, “Artificial intelligence and the modern productivity paradox,” in *Economics of Artificial Intelligence*. Chicago, IL, USA: Univ. of Chicago Press, 2019, pp. 23–57.
[9] S. Jarrahi, “Artificial intelligence and the future of work: Human–AI symbiosis in organizational decision-making,” *Business Horizons*, vol. 61, no. 4, pp. 577–586, 2018.
[10] P. Moore, “The rise of digital Taylorism,” *Work, Employment and Society*, vol. 32, no. 1, pp. 163–180, 2018.
[11] J. Manyika et al., *A Future That Works: Automation, Employment, and Productivity*. McKinsey Global Institute, 2017.
[12] World Economic Forum, *The Future of Jobs Report 2023*. Geneva, Switzerland: WEF, 2023.
[13] D. Susskind, *A World Without Work: Technology, Automation and How We Should Respond*. London, U.K.: Allen Lane, 2020.
[14] G. Parker, M. Van Alstyne, and S. Choudary, *Platform Revolution: How Networked Markets Are Transforming the Economy*. New York, NY, USA: W. W. Norton, 2017.
[15] M. L. Markus and F. Rowe, “Sociotechnical perspectives on digital transformation,” *Business & Information Systems Engineering*, vol. 60, no. 6, pp. 369–376, 2018.
[16] R. Parasuraman and V. Riley, “Humans and automation: Use, misuse, disuse, abuse,” *Human Factors*, vol. 39, no. 2, pp. 230–253, 1997.
[17] IBM Institute for Business Value, *AI and the Future Workforce: Skills, Roles, and Organizational Readiness*. IBM, 2022.
[18] Accenture, *Future Workforce 2025: Automation, Skills, and Productivity Transformation*. Accenture Strategy, 2023.
[19] S. Barocas and A. Selbst, “Big data’s disparate impact,” *California Law Review*, vol. 104, no. 3, pp. 671–732, 2016.
[20] A. D. Selbst, “Disparate impact in big data policing,” *Georgia Law Review*, vol. 52, no. 1, pp. 109–195, 2017.
[21] B. Shneiderman, “Human-centered artificial intelligence: Reliable, safe & trustworthy,” *Int. J. Human–Computer Interaction*, vol. 36, no. 6, pp. 495–504, 2020.
[22] D. A. Norman, *The Design of Everyday Things*. New York, NY, USA: Basic Books, 2013.
[23] D. Silver et al., “A general reinforcement learning algorithm that masters chess, shogi, and Go,” *Science*, vol. 362, no. 6419, pp. 1140–1144, 2018.
[24] J. van Dijck, “Datafication, platformization, and algorithmization: Big data’s global infrastructures,” *Big Data & Society*, vol. 3, no. 2, pp. 1–12, 2016.
[25] K. Schwab, *The Fourth Industrial Revolution*. Geneva, Switzerland: World Economic Forum, 2016.