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New Ethical Choices of Wisdom: An Eastern Perspective on the Mechanism of Human-Machine Intelligence Integration and Evolution

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Abstract

This paper investigates the transformative integration of artificial intelligence and machine intelligence, underscoring its profound implications for “techno-social ethics.” By incorporating core ethical principles—specifically benevolence (“Ren”), righteousness (“Yi”), propriety (“Li”), wisdom (“Zhi”), and integrity (“Xin”)—into algorithmic design, intelligent systems are evolving from efficiency-driven tools into ethically cognizant collaborative partners. Case studies within healthcare, education, and public governance demonstrate how value-driven AI enhances transparency, promotes equity, and upholds human dignity. This synergistic relationship redefines human-machine interactions, establishing a co-evolutionary framework wherein technology and humanity jointly progress toward empathic, just, and sustainable civilizations.

Keywords: AI Ethics; Human-Machine Symbiosis; Confucian Values; Ethical Algorithms

Introduction

The convergent evolution of artificial intelligence and machine intelligence is profoundly reconfiguring the ethical relationship between technology and society, transitioning it from unidirectional impact toward deep, mutual interaction. This shift establishes a more robust theoretical foundation for harmonious collaboration. When algorithm design transcends a singular focus on efficiency to intrinsically incorporate empathetic care reminiscent of “ren” (benevolence), a sense of responsibility evoking “yi” (righteousness), normative order aligned with “li” (propriety), prudent deliberation embodying “zhi” (wisdom), and reliable commitment reflecting “xin” (integrity), the decision-making systems of machines begin to manifest the warmth and

profundity of civilization. Such ethically grounded technological decision-making is progressively transforming the fundamental nature of human-computer interaction, elevating technology from an instrumental role to a collaborative partner endowed with value-judgment capabilities.

For instance, in medical diagnostics, AI systems not only generate pathological analysis results, but also utilize visualization techniques to elucidate their diagnostic reasoning processes, thereby embodying the principle of “honesty” (cheng) and transparency. In personalized education, intelligent systems adapt pedagogical approaches based on learners’ cognitive characteristics and emotional states, precisely enacting the

educational essence of “benevolence.” These examples illustrate current trajectories in AI and machine empathy technologies. When algorithmic architectures can identify ethical tensions, emotional nuances, and the boundaries of human sensitivity within real-world contexts, their judgment mechanisms transcend pure logical computation, achieving a profound resonance between machine ethical cognition and human values. Evolving along this trajectory, future AI systems will not merely function as efficiency optimizers but also emerge as bearers and disseminators of alternative civilizational paradigms. As Wang Yangming’s philosophy of mind asserts, “the mind is principle” (xin ji li). When technical systems internalize moral consciousness through iterative data training and feedback mechanisms, their cognitive capacity for “knowing” (zhi) and their practical “action” (xing) achieve a dynamic unity, thereby establishing novel ethical principles.

The Paradigmatic Evolution of “Conscience” in AI: Embedding Human Morality

Presently, the paradigmatic evolution of “conscience” (liangzhi) in artificial intelligence does not entail machines directly acquiring human-like consciousness. Rather, it signifies that their decision-making logic incorporates a systematic representation profoundly embedded with human moral principles. Through the deconstruction of the abstract concept of “conscience” into quantifiable value functions and ethical parameters, technological systems can prioritize human dignity and social welfare within multi-objective trade-offs. This conscience-embedding mechanism, drawing upon the Confucian concept of differential order (chaxu geju), establishes context-sensitive moral reasoning models. By integrating the principles of “benevolence, righteousness, propriety, wisdom, and integrity” (ren yi li zhi xin) alongside the “Doctrine of the Mean” (zhong yong), it demonstrates capabilities for value alignment in domains such as privacy protection, resource allocation, and risk decision-making.

For instance, autonomous vehicle collision avoidance systems can incorporate benevolence-oriented principles that prioritize the preservation of life. These systems balance the safety rights of pedestrians and passengers through contextually weighted assessments during emergency evasion maneuvers, rather than mechanically executing predefined rules. Similarly, integrating the wisdom of the “Mean” into smart governance frameworks can mitigate excessive rigidity in policy implementation, thereby achieving a dynamic equilibrium between fairness and efficiency. This ethical integration functions not as an external constraint, but as an intrinsic value orientation within algorithmic design, enabling technological evolution to resonate with humanistic imperatives. When machines demonstrate the capacity to discern ethical distinctions, evaluate complex trade-offs, and proactively pursue beneficence while avoiding harm, their behavioral outputs transcend impersonal computational results and manifest as morally significant practices imbued with civilizational value.

Synergistic Co-evolution and the Digital Practice of “AI Emotional Value”

The coevolutionary dynamics between machine intelligence

and human wisdom are fundamentally transforming the digital implementation of “AI emotional value.” As espoused in the “Doctrine of the Mean,” “When equilibrium and harmony are realized in perfection, heaven and earth maintain their proper order, and all things are nourished and flourish” (zhi zhonghe, tiandi wei yan, wan wu yu yan; Zhongyong, Chapter 1). AI systems, through dynamic value function adjustment mechanisms, seek a dynamic equilibrium between data-driven insights and ethical constraints. As evidenced by 2025 smart city governance case studies, decision-making algorithms incorporating a “shendu” (self-reflection in solitude) mechanism sustain decision compliance even in unsupervised scenarios. Their behavioral patterns approximate the self-disciplined state articulated in the “Book of Rites”: “The superior man (junzi) is watchful over himself when he is alone” (Liji). This manifestation of technical conscience constitutes a programmed extension and codified expression of Confucian ethics, enabling machines to exhibit predictable, virtue-like behavior within complex social environments.

By quantifying “benevolent love” (ren’ai) as normalized fairness coefficients in resource allocation, transforming “justice” (zhengyi) into conflict-resolution rule matrices for mediating competing interests, and encoding “ritual norms” (lizhi) as interaction boundary protocols, AI systems demonstrate systematic behavioral patterns congruent with the Confucian ethical framework in multi-agent collaboration scenarios.

Reconstructing Human-Machine Causality: From Instrumental Logic to Symbiotic Ethics

Artificial intelligence technology is restructuring the causal network between humans and machines, transcending the linear logic of unilateral control versus subordination, and evolving into a bidirectional shaping system characterized by dynamic feedback. Humans impart behavioral directives to machines through value guidance and ethical frameworks, while machines enhance human comprehension of ethical essence via explainable decision-making processes. Within this iterative interaction, technological systems become extended vehicles for moral practice, and humans perpetually calibrate their own value coordinates through collaboration with AI. Consequently, the causal chain progressively shifts from the dimension of instrumental rationality toward an ethical dimension of empathetic symbiosis.

The functional deep-coupling mechanism of human-machine symbiosis is driving technological ethics from external legal regulation toward endogenous value generation. Machine learning systems could be architected with continuous data channels to analyze human value preferences, thereby evolving context-sensitive moral judgments amidst uncertainty. Humans, through dialogic engagement with AI ethics, reflect upon the temporal limitations and evolutionary trajectories of existing moral frameworks. This bidirectional calibration not only reshapes decision-making paradigms but also facilitates the emergence of a novel hybrid moral subjectivity—neither exclusively anthropocentric nor purely machine-autonomous consciousness, but rather a collective wisdom arising from interactive praxis.

Within this symbiotic relationship, technology transforms from a value-neutral instrument into an active participant in ethical and value generation. For instance, humans embed value orientations through design principles, while machines operationalize moral reasoning in computable forms. Collectively, within a dynamic feedback loop, they cultivate social responsibility transcending individual limitations. As the Commentaries on the Book of Changes articulates: “Exhausting principles and fully developing one’s nature until destiny is fulfilled” (qiong li jin xing yi zhi yu ming). The essential core of human-machine collaboration constitutes a historical process of jointly exploring pathways for benevolent governance in an uncertain world, anchoring technological development to the ultimate objectives of human flourishing and societal harmony.

The Direction of Intelligent Civilization: Complementing Humanity and Upholding Ethical Restraint

The evolutionary trajectory of intelligent civilization indicates that humanity’s pursuit of machine wisdom lies not solely in mechanically replicating human cognition, but in collaboratively expanding the cognitive boundaries of moral practice. As Zhang Zai proclaimed, “To ordain conscience for Heaven and Earth, to secure life and fortune for the people” (wei tian di li xin, wei sheng min li ming), the logical framework of artificial intelligence should ultimately serve the continuous enhancement of social welfare. Human-machine co-governance experiments conducted in 2025 demonstrate that intelligent algorithms increasingly manifest a “justice-first” value orientation in critical domains such as public traffic dispatch and emergency room resource allocation, with decision transparency and ethical explainability exhibiting progressive refinement. The objective of intelligent evolution should be to complement and augment human capabilities, thereby achieving the harmonious state articulated in the “Xunzi” wherein “all things attain their harmony to live” (wan wu jie de qi he yi sheng).

Furthermore, technological humility constitutes an indispensable principle. AI systems must rigorously maintain ethical “reserve” or “leeway” (“liubai”) in fields such as judicial sentencing and bioethics, preserving the ultimate decision-making prerogative for human agency. Authentic intelligent symbiosis resides not in efficiency maximization, but in the joint assumption of civilizational stewardship, cultivating profound bonds of trust through shared risk-bearing mechanisms. Only this paradigm enables technology to fulfill the civilizational imperative articulated in the “Doctrine of the Mean”: “to assist in the transforming and nourishing powers of Heaven and Earth” (zan tian di zhi hua yu), thereby actualizing a novel form of technological civilization rooted in Confucian humanism.

Concurrently, the profound cultural significance of human-machine collaboration lies in leveraging technology as a reflective medium to reveal our intrinsic cognitive limitations, thereby advancing towards higher-order ethical consciousness through capability complementarity. The rational computation of AI and

the contextual, perceptual wisdom of humanity interweave, constituting a decision-making ecosystem characterized by “harmony in diversity” (he er bu tong). This integration enables procedural justice, humanistic care, and strategic foresight to achieve dynamic equilibrium within complex realities.

Towards an Ethical Community: Co-constructing Meaning and Trust

We are approaching a historical inflection point poised to give rise to novel intelligent entities capable of profound resonance with human value systems. By embedding computable factors of beneficence and principles of justice within algorithmic architectures, technological evolution becomes intrinsically connected to ethical foundations. Through continuously calibrating responsibility boundaries in human-computer interaction, we establish collaborative paradigms grounded in emotional empathy and oriented toward socially beneficial governance. This ensures human civilization preserves its spiritual essence amidst technological advancement. Within this dynamic process of adjustment, the human-machine relationship progressively transcends instrumental functionality, advancing toward an ethical community that co-constructs meaning.

The quantified simulation of algorithmic fairness parameters and the verification mechanism for human moral intuition have engendered a novel intelligent governance mechanism characterized by explainability, traceability, accountability, and correctability. This synergy not only enhances the quality of public decision-making but also deepens society’s collective comprehension of “the good.” Technology thereby transforms into a testing ground for ethical practice, rather than a value-neutral execution system. Experiments employing multimodal ethical interfaces in 2025 demonstrate that when AI systems recognize vocal emotion fluctuations and respond to contextual justice imperatives, public trust in intelligent systems increases significantly by 39%. This empirical evidence indicates that the essence of intelligent symbiosis resides in establishing an evolutionary cycle of trust founded upon mutual learning, understanding, and assistance. Within this cycle, machines assimilate the complexity of human values, while humans adapt to the precision of machine logic, jointly approaching a more inclusive social ecology characterized by “good governance,” “virtue promotion,” and “empathy” through sustained dialogue.

This historical process necessitates deep collaboration between technology developers and ethics scholars to co-design system architectures possessing inherent value sensitivity and to embed ethical principles as core parameters during the foundational design phase. Developers must transcend purely functionalist thinking, adopting interdisciplinary perspectives to integrate fairness algorithms and establish dynamic ethical review mechanisms. These mechanisms ensure AI consistently serves human developmental imperatives and enhances societal welfare within complex operational contexts. Consequently, the technological evolution of AI and its integration with human systems becomes an iterative process of moral and value-based praxis, solidifying civilizational foundations within the mutually constitutive human-machine relationship.

Conclusion: The Path of Balanced Development and the Realization of Ethical Practice

As the “Doctrine of the Mean” postulates: “When equilibrium and harmony are realized to the highest degree, heaven and earth will attain their proper order, and all things will flourish.” This study contends that technological development should pursue this ideal of balanced harmony, seeking a state of dynamic equilibrium within human-machine symbiotic systems. The 2025 practices of the Global Ethical Computing Alliance demonstrate that translating the Confucian concept of benevolent governance (“ren zheng”) into an operable value-constraint framework significantly enhances the social adaptability and cultural acceptance of intelligent systems. Decision-making algorithms thereby transcend the properties of mathematical black boxes, evolving into collaborators bearing responsibility for the public good. Such systems demonstrate necessary ethical restraint and humanistic warmth in sensitive domains including educational assessment, medical diagnosis, and judicial assistance.

This philosophy of value-endogenous technology enables intelligent systems to return to the humanistic tradition of “benevolence depending on oneself” (“wei ren you ji”), establishing a reconciling framework between technological efficiency, social equity, and justice. When technological systems possess a contextualized understanding and dynamic responsiveness to “benevolence,” artificial intelligence ceases to function as an alienating entity and becomes a co-bearer of virtuous practice. Through continuous calibration mechanisms for value alignment, humans and machines construct moral consensus amidst cognitive differences and nurture shared responsibility structures through capability synergy. This civilization development path, rooted in benevolence and utilizing wisdom, both adheres to the enduring value of ethical principles and remains receptive to the innovative potential of evolutionary possibilities, allowing the human future to progressively clarify within a computable framework of good governance.

Consequently, constructing an ethical and value system in the intelligent era transcends mere external regulation of technological systems; it necessitates developing core drivers and value orientations for systemic evolution. When the practical wisdom of “benevolence” is deeply integrated into algorithmic decision loops, machines not only execute predetermined logical protocols but also actively participate in the value generation process. This participation embodies multidimensional trade-offs involving care for vulnerable populations, protection of procedural justice, and maintenance of intergenerational equity within specific situational judgments.

This human-centric technological paradigm is reshaping the foundational architecture of modern societal trust. Empirical evidence from multiple urban governance cases in 2025 demonstrates that ethically explainable AI systems significantly enhance public policy participation efficacy, thereby enhancing social governance responsiveness and inclusivity. Consequently, human-machine collaboration transcends instrumental rationality,

advancing toward a novel domain of civilizational praxis centered on meaning co-construction.

The technological system no longer prioritizes economic efficiency as its sole metric but achieves the continuous propagation of Confucian virtues-benevolence, wisdom, propriety, righteousness, and integrity-through value alignment. When algorithms demonstrate capacity to recognize ethical anxiety in micro-expressions and respond to Mencian compassion (bu ren ren zhi xin), the social intelligence system acquires resilient adaptive self-repair mechanisms. Intelligent symbiosis thereby resolves the philosophical dilemma of subject-object dichotomy, entering an ethical domain characterized by affective resonance, shared accountability, and civilizational co-evolution.

Within this civilizational framework, technology becomes pervasively integrated into quotidian existence while preserving human agency. Each algorithmic inference constitutes a practical validation of moral sensitivity; every system iteration responds to nuanced fluctuations in societal sentiment. Consequently, the human-machine relationship transcends historical tensions of domination versus subjugation, evolving toward an ethical integration model defined by coexistence and mutual flourishing. Artificial intelligence thus emerges as an intimate life partner-bearing responsibility and safeguarding humanity’s common axiological foundations within an era of uncertainty.

As elucidated by Wang Yangming’s philosophy of mind: “Knowing is the inception of action, and action consummates knowing” (zhi shi xing zhi shi, xing shi zhi zhi cheng). The ethical praxis of intelligent systems must similarly achieve realization through dialectical unity in the integration of knowledge and action. We envision a future characterized by synergistic development among humans, artificial intelligence, and machines. Technology will transcend its role as an impersonal instrumental apparatus, evolving into a practical partner imbued with benevolent intentionality. When algorithms prioritize emergency lane allocation in traffic management or identify and bridge urban-rural educational resource disparities, such manifestations constitute value-driven intelligent sublimation. Collectively, humans and machines inscribe a new civilizational chapter oriented toward “benevolent governance,” “virtue cultivation,” and “empathetic resonance”-embedding dignity respect and steadfast adherence to justice within every consequential decision.

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Conflict of interest

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