Print ISSN 2891-040X
Onlin ISSN 2891-1341
ijs.imamreza.ac.ir

Imam Reza (A.S.) and Contemporary Sciences

Center for Applied Research in Religious Propagation and Education

The Doctrine of Imam Reza (A.S.) Regarding the Ethical Challenges of Science and Technology in the Digital World

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Article info

Article type:
Research Article

Received:
31 December 2024

In Revised form:
6 March 2025

Accepted:
21 April 2025

Published:
29 November 2025

Abstract

The accelerated advancement of digital technologies, including artificial intelligence and social networks, has placed unprecedented ethical challenges before contemporary societies. Issues such as systematic violations of privacy, the spread of misinformation, and the transformation of the nature of human relationships have revealed the necessity of rethinking the ethical foundations governing science and technology. The main question of this research is: What capacities do the teachings of Imam Reza (A.S.), as a coherent Islamic intellectual system, have for analyzing and proposing solutions in confronting these emerging challenges?This research, adopting a descriptive-analytical method and relying on original Islamic sources and contemporary comparative studies, seeks to answer this question. The course of the research is structured as follows: First, the foundational principles of the doctrine of Imam Reza (A.S.) regarding the connection between knowledge, ethics, and action are extracted and explained. Next, the central ethical challenges of the digital age -from privacy violations and algorithmic discrimination to the impacts of technology on the concept of justice and human relationships- are analyzed. In the final step, through a systematic comparison of these two realms, the guiding capacities of Razavi thought for an ethical engagement with technology are demonstrated. The research findings confirm that the doctrine of Imam Reza (A.S.), by simultaneously emphasizing the inherent dignity of human beings, justice as the overarching social criterion, the responsibility of the scientist/scholar, and the connection of knowledge with righteous action, provides a comprehensive and practical framework for critiquing, regulating, and guiding the development of digital technologies. Consequently, this research emphasizes the necessity of discourse formation and the application of this paradigmatic model among scientific elites and technology policymakers.

Keywords: Imam Reza (A.S.), Ethics, Science and Technology, Relationship between Science and Religion, Digital World, Applied Ethics.

Reference: Nabavi Meybodi, Maryam Sadat. (2025). The Doctrine of Imam Reza (A.S.) Regarding the Ethical Challenges of Science and Technology in the Digital World. Imam Reza (A.S.) and Contemporary Sciences. 3(9).141-173.
Publisher: Imam Reza (A.S) International University
DOI: https://doi.org/10.22034/ijs.2025.497131.1315

1. Introduction

The contemporary world is experiencing rapid and profound transformations in the realm of digital technologies. The emergence and expansion of technologies such as artificial intelligence, big data, social networks, and the Internet of Things, alongside unprecedented opportunities, have also brought about complex and unprecedented ethical challenges. Systematic violations of privacy, algorithmic bias, misuse of personal data, the erosion of authentic human relationships, and the issue of accountability for automated system decisions are among the novel ethical issues that have increasingly revealed the necessity of rethinking the ethical foundations governing the development and application of science and technology. In this context, the predominantly utilitarian or prescriptive approaches in the global discourse on technology ethics have often been unable to provide value-based, comprehensive, and deep-rooted frameworks for a structural engagement with these complexities.

Recognizing this gap, this research aims, by referring to the rich intellectual tradition of Islam, to examine the capacities of a coherent Islamic intellectual system for analyzing and proposing solutions in confronting these challenges. The central question is: What principles and capacities does the doctrine of Imam Reza (A.S.), as a prominent scientific and ethical figure in Islamic history, provide for the ethical critique, regulation, and guidance of contemporary digital technology development?

2. Research Objectives

The main objective of this research is to extract and elucidate the ethical-scientific doctrine of Imam Reza (A.S.) and to assess its capacity as a paradigmatic and deep-rooted theoretical framework for confronting the ethical challenges of technology in the digital age. The subsidiary objectives are as follows:

1. Extracting and systematizing the fundamental principles governing Imam Reza's (A.S.) perspective on science, ethics, and action.
2. Analyzing the central ethical challenges in the digital ecosystem (such as privacy, equity in access, accountability in AI, and the impacts of technology on human relationships).
3. Systematically correlating the principles of the Razavi doctrine with the aforementioned challenges and demonstrating this framework's capability to understand, critique, and propose strategies for novel issues.

4. Proposing practical measures for promoting scientific ethics and the social responsibility of scientists in light of Razavi teachings and emphasizing the necessity of discourse formation in this area.

3. Methodology

This research was conducted using a qualitative method with a descriptive-analytical and comparative approach. The theoretical framework of the research is the coherent intellectual system of the "Ethical-Scientific Doctrine of Imam Reza (A.S.)," which is inferred from authentic Islamic texts (such as narrations and sirah). Research data were collected from three main sources:

1. Primary Sources: Hadith and historical texts related to Imam Reza A.S.), such as 'Uyun Akhbar al-Reza (A.S.), Al-Kafi, and Bihar al-Anwar.
2. Secondary Sources: Contemporary research on Razavi thought, Islamic philosophy of science, and technology ethics.
3. Comparative Sources: Current academic literature in the fields of applied digital ethics, artificial intelligence, and the sociology of technology.

Data analysis was conducted in three main steps: First, directed qualitative content analysis of religious texts was used to extract and categorize the eight principles of the doctrine. Then, using rational-inferential analysis, the challenges of the digital world were examined in light of these principles. Finally, comparative analysis was employed to demonstrate the practical implications of the Razavi principles in confronting concrete issues. To increase research validity, source triangulation and referencing multiple pieces of evidence from narrations and sirah were utilized.

4. Findings

The research findings indicate that the doctrine of Imam Reza (A.S.) is based on coherent and interconnected principles that can provide a comprehensive framework for technology ethics. These principles are:

1. The inherent dignity of the human being as the foundation and ultimate end;
2. Justice as the overarching social and distributive criterion;
3. The responsibility of the scientist/technologist towards knowledge and its consequences;
4. Rationality anchored in faith as a valid method of reasoning;
5. The inseparable connection between knowledge and righteous action as an indicator of positive impact;

6. Conditional dynamism and innovation in knowledge;
7. The importance of seeking knowledge and inquiry; and
8. Simultaneous attention to ethics in science.

Correlating these principles with digital challenges showed that:

- The principle of human dignity critiques and analyzes privacy violations and unethical data mining under the concept of "violation of dignity" and necessitates the strategy of "embedding privacy protection in technology design."
- The principle of justice identifies challenges such as algorithmic bias and the digital divide as instances of "injustice" and emphasizes the necessity of algorithmic transparency and equitable access.
- The principle of responsibility addresses the ambiguity in accountability for AI decisions and highlights the need for determining a responsible authority and transparency in performance.
- The principle of the knowledge-action connection critiques the development of purely profit-driven technologies indifferent to public welfare and suggests directing research towards solving social problems.
- The principles of rationality and ethics in science reject the development of aimless or value-destructive technologies and deem ethical assessment prior to development and the encouragement of ethics-oriented, critique-friendly innovation as essential.

Furthermore, examining the practical sirah of Imam Reza (A.S.) in scientific debates and interaction with society provides a tangible model of the scientist's social responsibility, commitment to ethics in the production and exchange of knowledge, and prioritizing service and addressing human problems. He considered knowledge a public heritage and a tool for realizing justice and strengthening human bonds.

5. Conclusion

The present research clearly demonstrates that the doctrine of Imam Reza (A.S.) is not merely a historical collection of ethical recommendations, but a living, dynamic, and systematic theoretical framework capable of structural adaptation to the most complex ethical challenges of the technological age. In confronting the digital world, which often faces a lack of fixed ethical standards and the domination of short-term utilitarian approaches, this doctrine, centered on the inherent dignity of the human being as the analytical cornerstone, provides a criterion beyond mere profit and efficiency. The simultaneous emphasis on justice, responsibility, com-

mitted rationality, and the connection of knowledge with righteous action enables this intellectual system to adopt a holistic and balanced approach that avoids both the extremism of technophobia and the negligence of unconditional technophilia. This framework is a powerful tool for the root-and-branch critique of existing technologies. Phenomena such as privacy violations, algorithmic bias, or knowledge monopoly are understood in light of Razavi principles not as minor technical flaws but as violations of dignity, justice, and responsibility. More important than critique is the guiding and future-making capacity of this doctrine. These teachings can serve as a roadmap for the more responsible design of new technologies, in a way that ethical considerations are embedded in their very structure from the conceptual stage, turning "ethics-based artificial intelligence" or a "just smart city" from an ideal into reality.

However, translating this theoretical capacity into practical impact requires affirmative actions. Active discourse formation of this framework among technical elites, policymakers, and the scientific community is the first essential step. Formulating indigenous ethical charters and standards based on these principles for areas such as AI and data mining will be the next step. Furthermore, reproducing these concepts in educational literature and training a future generation of scientists and engineers committed to ethics ensures the sustainability of this perspective. Ultimately, reviving this intellectual treasure is not a return to the past but offering a forward-looking, wise, and culturally-identity-based response to one of the most fundamental questions of the contemporary world: How can we combine technological progress with ethical excellence and the preservation of humanity? The Razavi doctrine provides a rich and strategic answer to this fundamental question.

Suggestions

1. Forming interdisciplinary task forces to translate Razavi principles into technical language and actionable strategies.
2. Establishing technology ethics laboratories for simulating and testing development scenarios based on this framework.
3. Conducting deeper comparative studies between the Razavi doctrine and other schools of technology ethics to enrich the global dialogue.

Keywords: Imam Reza (A.S.), Doctrine, Ethics of Science and Technology, Algorithmic Justice, Responsibility, Artificial Intelligence, Ethical Rationality, Connection between Science and Religion.