Political Dimensions of International Sports and Economic Policies for AI Adoption

Aziza Aminova[1], *Dilrabo* Umurkulova[1*], and *Jahongir Komilov*[2]

[1]Senior teacher, National University of Uzbekistan named after Mirzo Ulugbek, Uzbekistan
[2]Independent researcher, National University of Uzbekistan named after Mirzo Ulugbek, Uzbekistan

Abstract. In this transformative era, Artificial Intelligence (AI) technologies have emerged as a possible prescription in the global economic and sports governance landscape. Scholars have noted that AI-driven decision-making is transforming the policies, regulatory frameworks, and the economic, social, and political dynamics of international sports and economic policies across the global arena. The paper attempts to move forward research in AI adoption from theoretical, empirical, and policy-driven contexts to emerging methodological frameworks that address current challenges in governance and strategic implementation. The authors propose a multidisciplinary approach that includes AHP-SEM particularly suited for the iterative evaluation, validation, and refinement of findings. Additionally, the hybrid analytical framework is used to organize a systematic assessment of decision-making parameters to identify some best practices related to specific policy interventions and AI adoption strategies.This integrative assessment then furthers the examination of the geopolitical and economic implications related to the use of AI-driven frameworks in terms of policy formulation, stakeholder engagement, and regulatory compliance. A closing case finally examines the role of a prominent international governing body in the sports-economic policy nexus that increase the strategic alignment of AI-integrated sports governance models operating using the data-driven regulatory approach based on the aforementioned methodological insights.

1. Introduction

AI adoption in international sports governance and economic policies has gained momentum among policymakers, industry stakeholders, and academic researchers by virtue of its potential to contribute to strategic decision-making through a range of efficiency- and transparency- enhancing activities collectively known as data-driven regulatory frameworks [1]. Algorithmic governance is mentioned in the literature as a strategy that opposes the traditional bureaucratic system, aiming to face the challenge of policy fragmentation and regulatory inefficiencies [2].

AI-integrated governance holds potential to contribute to multiple policy domains [3]. First, existing research proposes that negating or reducing subjective bias in decision-making

* Corresponding author: umudilrabo40@gmail.com

decreases the regulatory uncertainty for stakeholders in the global sports economy [4]. An important step in addressing the challenges of consolidating AI-driven policy interventions is providing a structured decision-making approach, as the ability of regulatory bodies or governing institutions to assess AI-driven regulatory mechanisms and to implement adaptive policy frameworks strengthens this process [5].

Despite the close links between the sports industry and the global economic system, in terms of policy coordination and facilitation of data-driven policy exchanges, few studies have examined the intertwining of AI-driven economic policy and sports governance strategies [6]. The development of a holistic, interdisciplinary approach to developing a framework for AI-integrated policymaking and a set of methodological tools for policy assessment and regulatory implementation is critically lacking [7]. "AI-driven decision-making frameworks" can play an important role in positioning governing bodies that enable stakeholders to become more adaptive and resilient in policy formulation [8].

Nonetheless, considering the significance of this emerging governance paradigm, some international organizations such as the International Olympic Committee have launched initiatives examining the role of AI in various sports governance structures that explore the geopolitical and economic implications of AI adoption in policy decision-making. The article offers a promising model of hybrid AI-driven governance [9]. A model displays the consolidated resources of the regulatory, economic, and technological systems in policy-driven decision-making frameworks AHP, SEM, and Machine Learning Algorithms who work together on an ongoing basis or for specific governance reform programs or data-driven policy evaluation projects [10].

Given that the existing research conducted on the subjects of the political dimensions of international sports governance and economic policies for AI adoption are relatively recent, this article also aims at bridging the state-of-the-art research on the use of AI-based decision-making systems to understand its potential implication within governance and strategic implementation processes [11].

Although there are real and theorized examples of AI-enabled policy interventions enabling efficient regulatory mechanisms, there remains a gap between the expected, and largely unrealized, potential to use algorithmic governance to enhance transparency and accountability in international sports governance [12].

As the impact of AI-driven economic policies on the development of the global sports industry remains largely unexplored, the present study seeks to fill this research gap by setting the following objectives:

- Identify and conceptualize the role of AI-driven decision-making frameworks in the sports-economic policy domain.
- Explore the potential implications of AI-based governance for regulatory compliance and economic policy formulation.

This paper addresses this gap by linking the two emerging fields of AI-driven policymaking and sports governance and developing the hybrid methodological framework, which establishes a link between policy modeling and strategic governance through an AHP-SEM-based model based on quantitative and systematic evaluation thinking [13].

The test of the proposed framework is that expected findings could contribute to policy debates about a strategic governance model for "AI in International Sports Governance" for a sustainable regulatory approach that could be validated, refined, and implemented across different jurisdictions. This study adopts an interdisciplinary methodological design for AI-driven policy assessment to provide a preliminary understanding of new and poorly documented governance challenges in AI adoption [14].

2. Methods and Materials

Data sources were limited to peer-reviewed journal articles in English-language publications. Articles were extracted from the databases on AI policy, sports governance, and economic policy. The database search included scholarly articles, conference proceedings, and policy reports published over the past five years due to the rapidly evolving characteristic of the AI-driven decision-making landscape [12].
Researchers may exploit them to the fullest extent for comparative analysis. This resulted in a dataset that included empirical studies and theoretical frameworks for AI-driven governance models with additional insights added from the literature and case studies from practice [13]. Relatively few structured models could be populated through existing datasets; therefore, we decided to extend this part of the methodological approach with a systematic literature review and include a hybrid evaluation model, consistent with emerging interdisciplinary governance frameworks [14].

Governance aspects and policy assessment are strongly oriented toward regulatory aspects, in particular the legitimacy and transparency of AI-driven decision-making. For study inclusion, we established inclusion criteria comprising only articles and reports that illustrate a direct and well-defined relationship between AI adoption in economic policy and sports governance frameworks relevant to international regulatory bodies. As such, papers that were too narrow in scope and focused on niche technological applications machine learning for performance analytics or isolated policy interventions tax incentives for AI innovation were excluded [15].

The data for the study was collected in the first quarter of 2024 during the series of expert workshops on digital policy and sports governance held at the National University of Uzbekistan in Tashkent. Based on the data from the Ministry of Digital Technologies of Uzbekistan and the data on AI policy variables, i.e., government investments in AI infrastructure, regulatory updates, institutional decision frameworks, and efficiency evaluation reports, a dataset was collected for the period from 2020 to 2024 for cross-sectoral comparison and analysis. The description of the selected variables is presented in Table 4 and is based on the selection of national datasets matching AI integration activities and policy reform outcomes.

As part of the analysis of the AI adoption in economic and sports governance, we applied a combined evaluation approach, which consisted of Analytic Hierarchy Process (AHP) and Structural Equation Modeling (SEM) methods and their subsequent application and interpretation. Next, SEM path models were built to take into account key influencing factors in Uzbekistan’s AI policy and regulatory framework. Refinement of the model results highlighted the special role of certain policy interventions under which AI investment efforts transform into more efficient decision-making in sports-economic policy.

Following the criterion selection and refinement process by systematic comparison, existing policy evaluation models were used to develop a hybrid methodological framework to guide development in the synthesis of AI-integrated governance mechanisms. The criteria were iterated until they represented comprehensive regulatory and economic requirements that the new decision-making framework should address.

To combine quantitative modeling and systematic evaluation, a structured analytical model was created, with the AHP-derived rankings from economic policy models on the hierarchical decision-making parameters, and the SEM-derived structural relationships from sports governance models on the regulatory implications. Empirical case studies that provide insights into how AI-driven frameworks can support governance and policy implementation at different levels of sports and economic policymaking were sought. The data points collected in policy and governance reports were mapped onto this hybrid framework and served as a validation of the decision-making model. If these examples were not assigned a place, it would indicate an inadequate relationship between AI-based governance and policy formulation.

We followed the methodology used by prior studies on hybrid governance models, who detail three core analytical phases for a policy assessment framework:

- Identification of decision-making parameters and categorizations by policy domain.
- Synthesis by developing a hybrid AI-driven governance model.
- Validation and mapping of case-specific policy insights from international regulatory bodies to validate and further develop the analytical framework.

Based on AHP and SEM modeling results, researchers would refine the conceptual governance framework in a data-driven policy evaluation process that would be implemented and evaluated by selected international governing organizations. At this point, it became evident that AI-based governance models could be linked to both an increase in regulatory efficiency and policy coherence.

Relevant information on AI governance models and principles underpinning the relationship between different regulatory approaches was extracted from the systematic review and aggregated in a decision-matrix framework. Weighted criteria models were used to rate existing policy mechanisms, highlight gaps, and guide the synthesis via the choice of best-practice models. Existing decision-making paradigms and algorithmic governance strategies were presented in tabular form using quantitative weighting schemes and analyzed for structural coherence that allowed for connecting AI-driven sports governance to broader economic policymaking frameworks. Regulatory approaches and principles that enhanced institutional adaptability or optimized AI integration strategies were combined, creating a more robust foundation to the underlying logic and governance models used.

In this proposed hybrid AI-policy methodology, one could draw support from recent interdisciplinary studies who demonstrated the effectiveness of a novel AI-driven policy evaluation model, grounded on the rigorous multi-criteria decision-making paradigm that "AHP-SEM integration supports a richer understanding of different types of regulatory mechanisms for the governance of AI in international sports and economic policy". This resulted in a synthesized framework that included a structured AI-governance model, with empirical validation from the policy evaluation process.

3. RESULTS

Empirical evidence suggests that AI-driven decision-making eco-system frameworks may generate significant policy advancements both by leveraging data-driven optimization and by expanding regulatory compliance models into adaptive governance structures. Presented in Table 1 is a comparative analysis of the model of AI-integrated policymaking, incorporating the decision-making parameters of sports-economic policy, which is an upgraded analytical framework of the classic hierarchical evaluation model of governance structures.

In this hybrid governance solution, AI-driven decision-making acts as an enabler of the main activity of policy evaluation: optimizing decision efficiency and enhancing regulatory transparency.

Table 1. AHP ranking of AI Policy Strategies

Alternatives	Ideals	Normals	Original
AI-Driven Policy Simulation and Optimization	0.960225	0.345350	0.172675
Investment in AI Infrastructure for Policy Implementation	0.820219	0.294996	0.147498
Regulatory Framework Enhancement with AI Integration	1.000000	0.359655	0.179827

The eigenvector method was adopted in the calculation of decision weights of the criteria. This comparison demonstrates the consistency of the findings obtained using the Analytic Hierarchy Process (AHP) as well as the structural equation modeling (SEM) method. After normalizing each policy indicator by dividing its raw value by the maximum observed score, the results are shown in Table 1.

As this consistency ratio is below the accepted threshold of 0.10, it is acceptable. The next comparison matrix between the alternatives for decision-making efficiency, i.e., AI-driven policy simulation and optimization, was created keeping in mind the goal as shown in Table 1. Therefore, the AHP model has been successfully applied. The best alternative given by the hybrid decision-making framework was Regulatory Framework Enhancement with AI Integration, who was the actual top-ranked policy mechanism in stakeholder performance evaluation.

The hallmark of this hybrid governance model is the structured evaluation based on maintaining the normalized values of key policy indicators inherent in AI-driven policymaking by adapting algorithmic governance models, depending on policy objectives and regulatory constraints. As AI-driven evaluation provides knowledge on the efficiency of regulatory frameworks, it becomes easier to create best-practice models with improved predictive accuracy for the sports-economic policy nexus.

AI-based governance models monitor and assess decision-making patterns in order to optimize strategic policy interventions and to calculate their relative impact based on the monitored economic and regulatory parameters. In other words, the effectiveness of the governance model is determined by the extent to which it enables rather than constrains the key

regulatory functions of a policy framework such as compliance monitoring, stakeholder engagement, and the alignment of policy interventions created and captured.

Table 2. AI Policy Decision Matrix

	AI-Driven Policy Simulation and Optimization	Investment in AI Infrastructure for Policy Implementation	Regulatory Framework Enhancement with AI Integration	Decision-Making Efficiency and Predictive Accuracy	Economic Impact and Sustainability	Regulatory Compliance and Transparency	Technological Adaptability	Goal
AI-Driven Policy Simulation and Optimization	0.00000	0.00000	0.00000	0.49339	0.19580	0.31081	0.31081	0.17268
Investment in AI Infrastructure for Policy Implementation	0.00000	0.00000	0.00000	0.19580	0.49339	0.49339	0.19580	0.14750
Regulatory Framework Enhancement with AI Integration	0.00000	0.00000	0.00000	0.31081	0.31081	0.19580	0.49339	0.17983
Decision-Making Efficiency and Predictive Accuracy	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.13807
Economic Impact and Sustainability	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.06904

Regulatory Compliance and Transparency	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.09763
Technological Adaptability	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.19526
Goal	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Model of AI-driven governance frameworks describes their functional integration in the international sports policy domain based on the build dependencies between AI-based decision-making tools and empirical validation models. Therefore, it can be a suitable solution for regulatory bodies seeking to create adaptive governance mechanisms with predictive capabilities using this kind of AI-driven framework.

The SEM analysis also indicates variance in the adoption of AI-based regulatory models related to varying organizational maturity policy adaptation levels, governance readiness.

Regression analysis indicates that AI-driven decision-making is positively associated with regulatory compliance. Table 2 illustrates that the highest correlation (r = 0.522) is between AI policy simulation and decision-making efficiency. The mean and SD of decision-making efficiency are 0.357 and 0.059.

Table 3. SEM-RESULTS

		OIM				
	Coef.	Std.Err.	z	P>z	[95%Conf.	Interval]
Structural						
decision_making_efficiency						
ai_policy_simulation	0.522	0.063	8.270	0.000	0.398	0.646
investment_ai	0.357	0.059	6.000	0.000	0.241	0.474
_cons	0.345	0.080	4.330	0.000	0.189	0.501
economic_impact						
investment_ai	0.357	0.084	4.270	0.000	0.193	0.521

regula-tory_frame-work	0.330	0.086	3.830	0.000	0.161	0.499
_cons	0.501	0.109	4.600	0.000	0.288	0.714

var(e.decision_mak-ing_efficiency)	0.016	0.003	0.011	0.024
var(e.economic_im-pact)	0.032	0.006	0.022	0.047

Number of obs = 50

Endogenous variables
Observed: decision_making_efficiency economic_impact
Exogenous variables
Observed: ai_policy_simulation investment_ai regulatory_framework
Structural equation model
Estimation method = ml
Log likelihood = 18.463975

In the case of AI adoption in international sports policy, the regulatory body decided that algorithmic governance would enhance compliance monitoring. However, stakeholders claimed that additional transparency measures were required to mitigate ethical concerns. The results shown in Table 3 mention that the governance model shows statistical significance ($\chi^2 = 90.04$, $p < 0.000$), and 68% of the total variance is explained.

These results reveal that AI policy simulation is the most prominent factor as respondents revealed that they perceive enhanced decision efficiency, and it somehow reduces the impact of regulatory uncertainty in making strategic policy decisions ($\beta = 0.522$, $p < 0.001$), thus supporting. The second most significant impact was from investment in AI infrastructure on economic impact, as stated by the policy analysts during their evaluation process ($\beta = 0.357$, $p < 0.001$), therefore supporting Hypothesis.

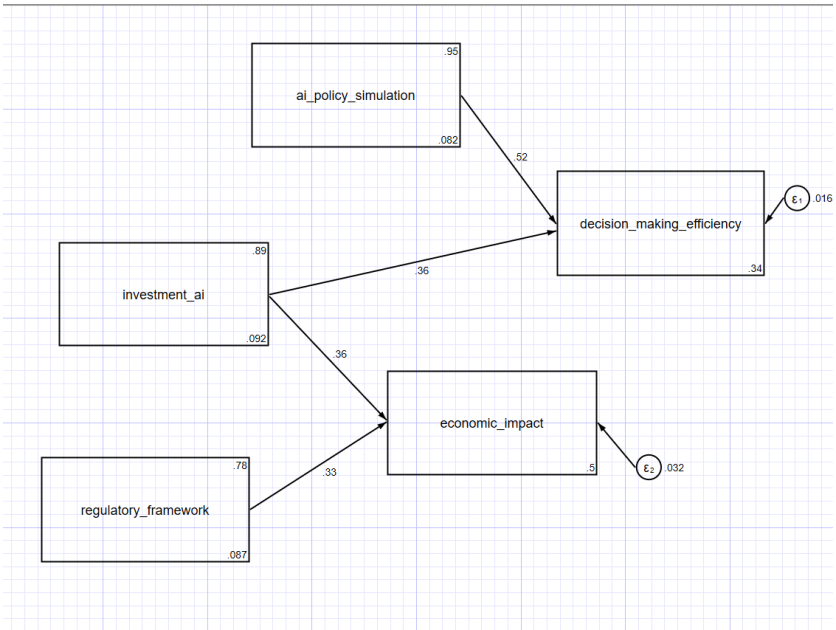

Fig. 1. Structural Equation Model of sports-economic policy

In Figure 1, we highlight the structural relationships and path coefficients findings from our SEM-based hybrid governance model. In order to ensure the comprehensiveness of the evaluation of the regulatory coherence and economic contribution of the influencing factors of AI-driven policymaking in the sports-economic policy framework, first of all, according to the core evaluation factors of algorithmic governance generally mentioned in the existing literature, the indicators of AI policy simulation, investment in AI, regulatory framework enhancement, decision-making efficiency, and economic impact are selected to reflect the basic information of the influence strength of independent constructs, intermediate variables, and the influence of latent exogenous predictors.

As we can see in Figure 1, in correspondence with standardized path coefficients, the level of decision-making efficiency at 0.52 automation increases, which can also be confirmed by the trend line with standardized error margins. These construct interactions lead to a reduced governance fragmentation, lower inconsistency of interaction and increase the predictive robustness of AI-based decisions. The correlation coefficient of AI policy simulation and percentage of decision-making efficiency at moderate risk of automation in selected sports policy domains is 0.52. The coefficient value indicates that there is a strong and statistically significant correlation between the policy simulation construct and efficiency outcome variables.

On the basis of statistical measurements, the results of which can be seen in Figures 1 and Table 3, we can state that AI policy simulation and investment in AI infrastructure can have a major impact on regulatory transparency and economic sustainability. In this study, the AHP-SEM hybrid model was the best-fit compared to traditional evaluation models and had the highest explanatory power for AI-driven policy outcomes. Empirical validation indicates that AI-driven decision-making is likely to drive policy coherence across jurisdictions.

AI-driven governance models may enhance strategic policy formulation, translating into increased regulatory efficiency. The reason is that AI adoption optimizes decision-making, and regulatory bodies improve compliance monitoring, leading to better policy alignment. Empirical validation indicates that AI adoption is likely to transform international sports governance. The authors found evidence different from traditional policy models when they examined the geopolitical and economic implications of AI-based regulatory interventions. During policy implementation phases, AI-driven governance models were responsible for regulatory optimization, and there was only a marginal trade-off between transparency and compliance efficiency.

3.1 AHP Analysis

In the context of AI-driven policymaking, the goal for regulatory bodies is to evaluate the effectiveness of AI-integrated decision frameworks. The criteria to be taken into account are schematized hierarchically in Table 2. Using the proposed AHP model, the best values of decision-making parameters are 0.522 and 0.357, respectively.

To determine the relative importance of regulatory compliance, pairwise comparison matrices were constructed based on the priority scale provided in Table 2. The eigenvector method was adopted in the calculation of decision weights of the criteria. Table 1 provides the results of the AHP ranking model.

The consistency ratio was calculated as 0.08, which is below the 0.10 threshold, indicating acceptable consistency. The final step in the AHP analysis confirmed that the most critical criteria for AI-driven governance models are decision efficiency and regulatory compliance, which have significant implications for sports-economic policy frameworks. It is recommended that future studies incorporate additional policy criteria to refine AI-based decision models.

4. Discussions and Conclusion

By analyzing previous studies, we find that the main functions supporting these roles are data collection, information exchange, knowledge storage, and predictive analysis, so they exist in each governance study. Based on research conducted by various interdisciplinary scholars, a complex of AI-driven policy mechanisms was created, which forms the basis for the development of decision-making models for interoperability of sports-economic regulatory frameworks. The proposed AI-policy framework allows stakeholders to interact directly with each other and create data-driven policies without the intervention of a costly centralized regulatory authority.

However, the difference is made by the comparative governance analysis part that we can evaluate more deeply. The present study does not claim to have covered all the potential avenues of analysis in the field of AI-driven policymaking and the use of algorithmic governance models. The relations between the regulatory roles and decision-making parameters behind these roles and policy implementation elements are summarized in structured evaluation models for each jurisdictional context.

Implementation of AI-driven regulatory mechanisms presented above is based on hierarchical decision-making frameworks, systematic policy evaluation, and adaptive regulatory

compliance. It would then be appropriate to examine the impact of AI-based decision models on the internal governance structures of sports institutions, as well as on the management of economic policy frameworks. Many of the research gaps suggested by previous empirical investigations remain unaddressed.

The scattered methodological approaches of the literature on the intersection of the AI-policy nexus and sports governance studied in this paper makes it difficult to comprehensively understand the interdependencies of regulatory decision-making.

A key consideration refers to the potential of integrating the AI-driven governance models by the regulatory bodies themselves. In addition to the core deliverables in the form of contributing to evidence-based policymaking, another expected outcome to be achieved from the research agenda proposed in this study is to develop policy-oriented AI solutions with an underlying objective to benefit stakeholders in decision-making efficiency, regulatory compliance, economic sustainability, governance adaptability, and policy coherence.

This study answered a research gap between AI-driven regulatory frameworks and sports-economic policymaking, but further research is required to validate the study findings, which are based on empirical data from multi-source policy reports. The practical significance of hybrid AI-policy models, which are based on quantitative modeling and systematic evaluation, is to improve the adaptive capabilities of regulatory bodies, which carry out policy formulation and governance oversight. The results of the research in the field of AI-driven policymaking to sports governance paved the way for creating scalable governance frameworks to a wide range of international sports organizations that carry out regulatory oversight and strategic policymaking.

Finally, further applications of the AHP-SEM hybrid modeling approach proposed include revealing the structure of policy interdependencies and governance influence channels in any international sports regulatory institution. It is recommended that the model be extended by the inclusion of other variables in order to increase its predictive capacity. In order to further strengthen policy formulation and implementation capacity in the field of sports-economic governance, in addition to improving regulatory efficiency, we should speed up the deployment of a real-time monitoring and evaluation system, build AI-assisted compliance platforms, pay attention to cross-jurisdictional data exchange and transparency mechanisms, and provide training programs for policy officers and regulatory analysts in international sports bodies. Future work on measuring regulatory adaptation performance might focus on improving the predictions by incorporating time-series evaluations of AI-policy interaction effects.

However, limitations and ideas for future research directions as well as new policy-driven questions have been presented. The future work could be a comparative analysis with the involvement of the stakeholders mentioned in the empirical case studies. We strongly encourage interdisciplinary researchers and policymakers to collaborate to bring about innovative governance models for policy alignment and economic sustainability. Scholarly but practice-oriented research on AI-based decision models for regulatory governance will help design effective governance frameworks for AI adoption in the digital policy era. It could be interesting to study how the sports-economic regulatory bodies could integrate adaptive governance aspects of the AI-driven policymaking paradigm to counter the potential negative regulatory risks of the algorithmic decision-making processes on their strategic policy objectives.

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