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# The Application of Artificial Intelligence in Policy Formulation (Intelligent Policy Formulation)

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## 1. Round 1

## 1.1 Reviewer 1

Reviewer:

You assert that unemployment became a crisis due to hasty outsourcing and privatization decisions. Please provide empirical evidence, statistics, or citations that support this specific link between privatization policies and increased unemployment, enhancing the credibility of your argument.

You mention that AI could eliminate "human interference and corruption," but it would be valuable to discuss potential limitations or unintended consequences of AI applications explicitly. Balance the narrative by including critical perspectives or limitations noted in the literature.

You cite Minsky's (1985) and Roza's (2020) definitions of intelligence. However, you should clarify explicitly how these definitions directly relate to policymaking processes, rather than general definitions of intelligence. Consider refining the connection clearly.

You argue for the establishment of an "AI-based—or smart—bureaucracy" but do not elaborate sufficiently on how precisely AI would overcome traditional bureaucratic challenges (e.g., Weber's "iron cage"). Provide a clearer theoretical linkage or specific practical examples from existing cases or studies to strengthen this claim.

The importance of "quality and integration of system data" in AI is correctly highlighted; however, you might explicitly mention or cite specific examples or studies where poor-quality data led directly to AI system failure, demonstrating the practical implications clearly.

You note that neural networks "function similarly to the human brain," yet this analogy is oversimplified. Provide a clearer, scientifically precise explanation of how neural networks operate distinctly from human cognition, avoiding potentially misleading simplifications.

The criterion for selecting articles ("limiting the time frame to 2017–2020") is justified, but the exclusion of seminal articles or foundational literature prior to 2017 should be explicitly justified. Explain why such a recent timeframe was chosen, and whether critical older foundational literature was consulted or excluded.

You state, "limited research has been conducted on artificial intelligence within the public sector," yet later list multiple studies. Clarify explicitly how your research differs from or adds significantly to these existing studies, clearly outlining the novelty or contribution of your current work.

Author revised the manuscript and uploaded the updated document.

### 1.2 Reviewer 2

#### Reviewer:

In reference to demographic issues, the phrase "low fertility gradually became an accepted and prevailing cultural norm" lacks elaboration. Consider explicitly detailing the policy mechanisms or cultural changes influenced directly by policy, accompanied by statistical trends or demographic data to strengthen your analysis.

Regarding veteran benefits, the assertion that "these benefits and regulations are no longer needed by these individuals" appears speculative. Clarify with supporting evidence or data whether veterans themselves view these policies as unnecessary or obsolete.

You state, "if policies are not formulated intelligently, they can steer people's lives in an adverse direction," yet the definition or characteristics of "intelligent formulation" remain vague. Please explicitly define or provide clear criteria for what constitutes intelligent policy formulation within this research context.

You quote Wang's (2019) definition extensively, noting that intelligence is an "information processing system that operates with insufficient knowledge." Clarify specifically how this attribute is advantageous or disadvantageous in a policy-making context, supported by relevant examples.

In the sentence, "Technology expands opportunities, and policymakers must keep in mind the diverse and rich possibilities provided by AI," you could strengthen the argument by briefly mentioning concrete examples from policy domains in which AI has already demonstrated potential or achieved outcomes.

You state, "Artificial intelligence can reduce the burden of searching through vast data sets." Consider providing an explicit example or case study from existing literature to support how AI has specifically enhanced decision-making efficiency or effectiveness in a governmental context.

You briefly mention that "AI has evolved through three waves of research," referencing Sharma et al. (2019). However, a brief description or summary of what these three waves encompass and their relevance to policy formulation would significantly enhance understanding and context for readers.

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You note, "Legislation and policymaking must adapt to the new transformations," but do not specify particular legislative challenges or gaps. Identify explicitly what legislative adaptations or policy changes are most urgently needed to facilitate the integration of AI into policymaking.

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## 2. Revised

Editor's decision after revisions: Accepted.

Editor in Chief's decision: Accepted.