

REVIEWER'S REPORT

Manuscript No.: **IJAR-58426**

Title: **GLOBAL CYBER SUBSYSTEMS IN THE FOOD SECURITY DOCTRINE**

Recommendation:

Accept as it is

Accept after minor revision.....

Accept after major revision✓.....

Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality			✓	
Clarity		✓		
Significance			✓	

Reviewer's ID: JPR- **098**

Detailed Reviewer's Report

Decision: Accept after Major Revision

The manuscript discusses the **integration of cybersecurity into global food security systems**, proposing a conceptual framework that links digital transformation, cyber protection, food supply chains, and national security within the context of geopolitical instability and global food governance.

Strengths:

- Addresses a **timely and globally important topic** at the intersection of food security and cybersecurity.
- Highlights the influence of digitalization and geopolitical conflicts on modern food systems.
- Emphasizes the importance of cyber protection for critical food infrastructure and supply chains.
- Introduces concepts such as **cyberbiosecurity**, zero-trust access management, and integrated food–cyber systems.
- The topic has potential policy relevance for governments and international organizations.

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Major Issues:

- The manuscript is **entirely conceptual** and contains **no empirical analysis, case study, simulation, or quantitative validation** to support its claims.
- The methodology is limited to broad philosophical and deductive descriptions without a rigorous research design or analytical framework.
- The proposed "cyber-food system" and cybersecurity subsystems are discussed only at a high level and are not formally defined or modeled.
- Many geopolitical statements are opinion-based and insufficiently supported by scientific evidence or authoritative references.
- The reference list is **very limited (only three references)**, which is inadequate for a scholarly article on such a broad topic.
- The manuscript lacks comparison with existing cybersecurity frameworks (e.g., NIST CSF, ISO/IEC 27001) and current food security policies.

Minor Issues:

- Numerous grammatical, stylistic, and language-quality issues require extensive proofreading.
- Several concepts are repetitive and insufficiently explained.
- The paper contains **no figures, tables, or conceptual diagrams**, reducing clarity.
- Keywords and abstract should better reflect the manuscript's specific contribution.
- The conclusion is brief and does not clearly summarize the research contribution or future research directions.

Final Comment:

The manuscript addresses a significant and emerging topic by linking cybersecurity with global food security. However, the current version remains largely conceptual and lacks methodological rigor, empirical evidence, comprehensive literature coverage, and technical depth. Incorporating case studies, established cybersecurity frameworks, quantitative analysis, and a stronger scholarly foundation would substantially improve the manuscript.