



# Erratum Notice

## "Optimizing Cloud Computing: Balancing Cost, Reliability, and Energy Efficiency"

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The Publisher regrets to inform readers that due to a technical error during the typesetting and production process, the first ten references (References [1] through [10]) in the original publication were processed incorrectly. This led to alphabetical placeholder names (e.g., "A et al." through "J et al.") appearing in both the literature review matrix (Table I) and the final References section.

The text, Table I, and the References section have been corrected to reflect the actual papers cited by the authors. The publisher sincerely apologizes to the authors, Raed A. Hasan and Teba Majed Hameed, and to the readers for any confusion or inconvenience caused.

The corrected versions of Table I and the corresponding bibliography entries are provided below.

### Corrected Table I: Summary of Recent Studies

Study	Year	Key Contributions	Drawbacks
Kalaskar & Thangam	2023	Proposed predictive failure models using machine learning for fault tolerance.	High computational cost; limited scalability for large-scale systems.
Madhusudhan et al.	2023	Developed an energy-aware resource allocation algorithm for virtual machines.	Focused only on energy efficiency, neglecting fault tolerance.
Agarwal & Kotakula	2022	Introduced a hybrid replication and checkpointing strategy for fault tolerance.	Increased latency during failure recovery; limited adaptability to dynamic workloads.
Radovanović et al.	2022	Proposed a carbon-aware energy optimization framework for data centers.	Lacks integration with reliability measures; minimal impact on fault tolerance.
Jassas & Mahmoud	2021	Designed a failure prediction system using deep learning techniques.	High training time; requires extensive historical failure data.
Sayadnavard et al.	2021	Investigated dynamic VM consolidation for energy savings.	Causes increased service downtime due to frequent migrations.
Marahatta et al.	2020	Explored redundancy-based fault tolerance with energy-efficient resource management.	Redundancy increases energy costs; does not consider carbon emissions.
Shaw et al.	2020	Introduced a multi-objective optimization model for reliability and energy efficiency.	Computationally intensive; lacks real-time adaptation to workload changes.

Mohamed et al.	2019	Developed a fault detection and recovery mechanism using fog computing.	Limited applicability to centralized cloud systems; high implementation cost.
Ran et al.	2019	Proposed an AI-based scheduling algorithm for energy-efficient task execution.	Focused on scheduling but ignored fault tolerance measures.

## Corrected References Section

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