CSE484-Clound Computing (Lab activity 2)

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I. PAPER11, WHY WAS PSO ALGORITHM CHOSEN?

PSO was chosan for its effectiveness in solve cloud computing task ,scheduling problems.As, its a very popular among the industry.but,it can get stuck in local solutions.The new inertia weight optimization using sine-based method enhances PSO for cloud task scheduling, improving efficiency by reducing scheduling time.
[1].

II. PAPER11, HOW DOES THE PROPOSED INERTIA WEIGHT OPTIMIZATION SCHEME DIFFER FROM TRADITIONAL APPROACHES?

The proposed inertia weight optimization scheme differ from traditional by dynamically adjusting the inertia weight based on a sin strategy,which helps to Dynamic adjustment of inertia weight, Inertia weight adjustment based on a sine function, Emphasis on enhanced global exploration at the start, Enhancement of optimization characteristics.
[1].

III. PAPER11, HOW WAS THE SYSTEM PARTIALLY IMPLEMENTED? AND WHAT PARAMETERS WERE CONSIDERED FOR IMPLEMENTING THIS RESEARCH?

The system was partially implemented using the CloudSim platform/ Parameters considered included virtual machine specifications, task durations,acceleration constants,algorithm iterations.
[1].

IV. PAPER4, HOW DOES STORAGE VIRTUALIZATION HELP IN SECURING AND PROTECTING PATIENT DATA?

STorage virtualization helps in securing and protecting patient data by virtualizing physical storage into logical units (LUN), which enables uniform and centralized taks in multiple storage platforms.It also have features like raid5 distributed parity for data redundancy and protection against disk failures
[2].

V. PAPER4, WHAT IS DIFFERENT ABOUT THE PROPOSED MECHANISM THAN THE EXISTING METHODS?

The suggested method is all about organizing electronic health records in cloud systems by using storage virtualization.This method meets the special requirements of storing and finding healthcare data, making sure it's well-organized and only accessible to authorized users in the cloud. previously the the documents are duplicated , hard to manage and store ,hard to understand sometimes for normal people,repetation happens
[2].

REFERENCES

[1] Y. Zhang and R. Yang, "Cloud computing task scheduling based on improved particle swarm optimization algorithm," in *IECON 2017 - 43rd Annual Conference of the IEEE Industrial Electronics Society*, 2017, pp. 8768–8772.
[2] R. Reddy B and I. M, "Storage virtualization mechanism for securing electronic health records in cloud," in *2022 Fourth International Conference on Cognitive Computing and Information Processing (CCIP)*, 2022, pp. 1–4.