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(57) Abstract :
The present invention discloses a smart management system employing data-driven decision-making to intelligently support and automate management operations in dynamic environments. The system is configured to collect heterogeneous data from multiple sources, pre-process and store the data, and analyse the data using analytical and intelligent processing techniques. Based on the analysed data, the system interprets operational context and autonomously generates multiple decision alternatives. The generated decisions are evaluated and validated using performance parameters and risk assessment criteria, and an optimal decision is selected for execution. The system further includes monitoring and feedback mechanisms to observe execution outcomes and continuously refine decision logic through adaptive learning. The closed-loop architecture enables the system to improve accuracy, efficiency, and responsiveness over time with minimal human intervention. The proposed system enhances operational efficiency, reduces decision latency, and ensures consistent and optimized management actions across various application domains including enterprise management, infrastructure systems, and resource optimization.

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