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(57) Abstract :

The present system (100) introduces a comprehensive solution to enhance packet forwarding within a content-centric network paradigm. At its core, the Forwarding Module ("108") operates as the conductor of packet movement, intelligently routing incoming packets through the network. The Content Store (110) acts as a repository for storing diverse content, ensuring swift access for subsequent requests. The Forwarding Hint Module (112) assumes the role of a strategic guide, diligently curating and refreshing the forwarding hint set, a critical dataset dictating efficient routing paths. Encompassing these modules, the Control Module (114) commands a pivotal role by orchestrating the network's operational dynamics and parameters. Collectively, this system harmonizes routing efficacy, content availability, and network optimization, creating a robust foundation for seamless packet forwarding and elevating the performance of content-centric networks to new heights.

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