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(57) Abstract :

The Reputation-Based Instruction Processing System (100) introduces a comprehensive approach to elevating instruction execution within information-centric networks. At its core is a dynamic Processor (106) responsible for the precise execution of computer-readable instructions, a Reputation Scores (110) attributed to each instruction source, indicative of their historical performance and reliability. A Verification Module (112) employs advanced authentication methods to establish the validity of sources, while a responsive Feedback Mechanism (114) continually updates source Reputation Scores in accordance with instruction execution outcomes. Coordinating this process is a judiciously designed Priority Queue (116) that intelligently sequences instructions based on source Reputation Scores, optimizing resource allocation and ensuring both secure and efficient instruction processing. This system not only enhances the dependability of instruction execution but also introduces an approach to prioritization, thereby advancing the efficiency and credibility of information-centric networks

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