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(57) Abstract:

The invention discloses an online survey system that prioritizes privacy and data protection. The system includes modules for survey creation, survey management, user response, and privacy-preserving data processing. By utilizing differential privacy techniques, the system adds carefully calibrated noise to collected data, ensuring statistical accuracy while safeguarding individual privacy. The survey creation module allows designers to customize survey questions, deadlines, and target audiences. The survey management module oversees survey progress and provides a dashboard for result examination. The user response module enables participants to securely share their opinions. The privacy-preserving data processing module employs differential privacy techniques, such as Laplace noise and randomized response, to protect individual identification and maintain statistical significance. Overall, this system establishes a secure and anonymous survey environment, empowering participants to share feedback without compromising their personal information.

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