



Bridging the Protection Gap: Innovative Approaches to Shield Older Adults from AI-Enhanced Scams

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BACKGROUND

Artificial Intelligence (AI) is rapidly advancing. Scammers have started using AI to enhance their fraudulent activities. Older adults have a growing population with increased vulnerabilities, considerable accumulated wealth, and limited protections making them prime targets for scammers.

OUR GOAL

Considering future AI-enhancements, explore the current defenses, identify gaps, and propose adjustments to improve defenses for older adults.

RESEARCH QUESTIONS

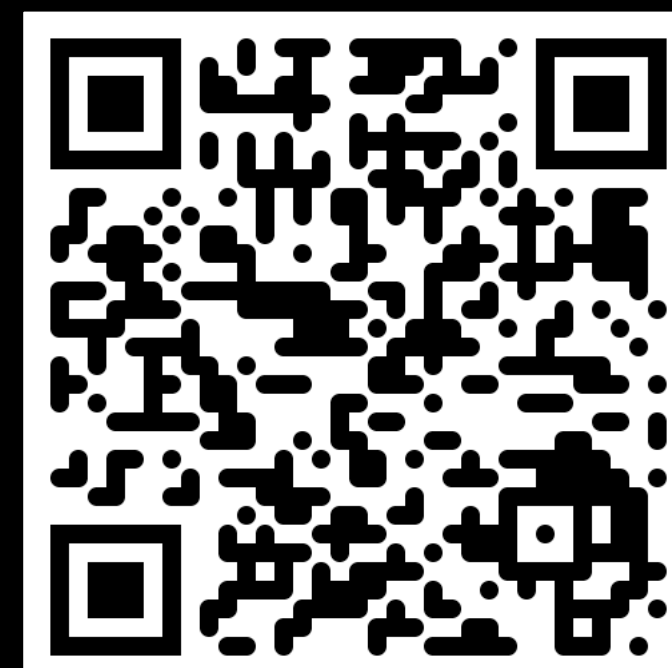
- RQ1:** What components are frequently found in scams targeting older adults?
- RQ2:** How will AI enhance these components?
- RQ3:** What defensive measures are needed against AI-enhanced scams targeting older adults?

FIVE-STAGE METHODOLOGY

- 1. Scam Anatomy:** Analyzed 84 scams known to victimize older adults
- 2. AI-Enhancements:** Identified potential AI improvements to scam components
- 3. Hypothetical Cases:** Created two case studies (Tech Support and Romance scams)
- 4. Case Analysis:** Explored gaps in current defenses
- 5. Recommendations:** Proposed updated defensive measures



AI is making scams harder to spot, especially for older adults. Adjustments are needed.



<https://www.ldherrera.com/ai-powered-scams>

AI-ENHANCEMENTS



DEFENSE GAPS

- GAP1:** Lack of connections to individuals who can provide elevated support
- GAP2:** Awareness focuses on self-protection while the ability to self-protect is compromised.
- GAP3:** Inadequate encouragement and guidance for reporting cybercrimes.
- GAP4:** Outdated, ineffective, or inaccessible detection systems.

RECOMMENDATIONS

- 1:** Establish a 24-hour National Call Center connecting victims to those who provide elevated support with funding based on a percentage of annual losses in previous year. Data gathered from calls provides enlightenment on the threat landscape.
- 2:** Following the lead of business and government, increase the focus on recovery rather than just prevention and detection.

CONCLUSION

This research anticipates future AI-enhanced threats and proposes proactive defensive measures to protect older adults from increasingly sophisticated scams. Even a 1% reduction in scam effectiveness could save millions of dollars from being lost to illicit activities.