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Standing at a kiosk: Effects of key size and spacing on touch screen numeric keypad performance and user preference

Herbert A Colle & Keith J Hiszem

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Abstract

Touch screen numeric keypad performance and user satisfaction were measured in a study of 10 participants using a touch screen numeric keypad (1, 3 mm key size and 20 mm key spacing). Entry time and error rate were significantly different (20 mm key spacing). Therefore,

space. The performance or preference for 10 digits in front of a key spacing response time effects. significant preferred mm keys. key entry.

Touch screens

Keypads

Key size

Key spacing

Kiosks

Keyboards

Human-computer interaction

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Related Research Data

ThumbSpace: generalized one-handed input for touchscreen-based mobile devices

Source: Springer Berlin Heidelberg

Mathematically modelling the effects of pacing, finger strategies and urgency on numerical typing performance with queuing network model human processor.

Source: Informa UK Limited

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Touch screen user interfaces for older adults: button size and spacing


Source: Springer Berlin Heidelberg

The effect of key size of touch screen virtual keyboards on productivity, usability, and typing biomechanics.

Source: SAGE Publications

Balance with the interactive size effects of display, target, and key spacing in tablet tapping, dragging, and typing tasks

Source: Wiley

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