Text Input Disambiguation Supported on a Hierarchical User Model

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What?

• disambiguation of 12 key keyboard supported on a hierarchy of user models

• a user model (UM) has text prefixes – like in LetterWise [MacKenzie 02]

• different UMs represent different msg styles

• disambiguation is sensitive to message style due to the hierarchy of UMs
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How?

Results

- for the tests 1000 messages were used for train and 300 for test
- 650 messages with complete words plus 650 messages with abbreviated words
- the results were measured in the form of KSPC (Key Strokes Per Character)
- the best value obtained for this train/test dataset was 1.23
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Pros

• sensitive to current writing style

• good performance over abbreviations and mixed alphanumeric

• average KSPC < 1.25 on abbreviated texts

Cons

• the user must visually follow the writing process

• letter sequence for a key changes along typing

Thank you!