

Text Input Disambiguation Supported on a Hierarchical User Model

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What?

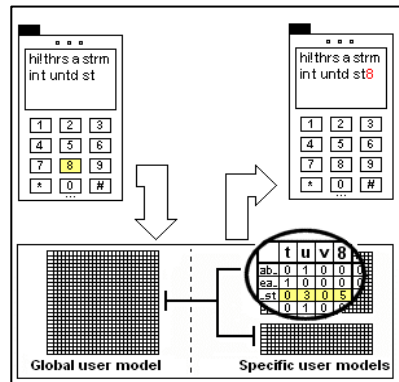
- disambiguation of 12 key keyboard supported on a hierarchy of user models
- a user model (UM) has text prefixes – like in LetterWise [MacKenzie 02]
- different UMs represent different msg styles
- disambiguation is sensitive to message style due to the hierarchy of UMs



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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

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



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Thank you!



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