

Class notes – 9.24.07

Paper: An Evolutionary Algorithm for General Symbol Segmentation

- There was no data for the experimentation that was done.
- The paper was not strong
- Not enough information was provided to reproduce the experiment or the method.

Paper: A soft-decision approach for symbol segmentation within handwritten mathematical expressions

- Interesting because it uses geometry to help with segmentation
- Not specific enough to re-implement the algorithm.
- The results shown in the tables aren't fully explained
- Description of the Symbol Hypotheses Net was vague
- Method was not compared to other methods.
- Needs to show more detailed errors and show why it doesn't work in some cases.
- How are the dots for i and j recognized versus a regular tap to recognize the expression.
- Question: What is a soft-decision?

Paper: A Handwriting-based equation editor

- The method for grouping was simple. Coupled with a good recognizer the grouping helps do a decent job of segmentation.
- The author makes many statements about the usability of the method, but provides no results or studies to back up the statements.
- Question: How does this method work in other domains?

Paper: Combining geometry and domain knowledge to interpret hand-drawn diagrams

- Good: didn't tell the users anything about the application, but that helped actually get an idea of the usability.
- Used time and proximity
- Uses symbol density to help with multisymbol segmentation on one stroke.
- Question: Is this method too domain specific?