Handwritten Editor

Hidehisa Arai

TUM Department of Informatics, Chair for Applied Software Engineering
Technical University of Munich
Munich, Germany
koukyo1213@g.ecc.u-tokyo.ac.jp

Abstract—**Handwriting is still in strong demand as a way of communication and saving knowledge even in the era of new technology. Driven by the rise of electronic pens and tablets, the need for handwriting recognition on electronic devices is increasing recently.**
This report focuses on handwriting recognition on iOS device and discusses how to use the recognition results using auto-completion as an example.

I. Introduction

Handwriting recognition (HWR) is a field which study and develop algorithms to interpret handwritten inputs into a format that can be easily handled by computers from sources such as papers, photographs, electronic tablets, and other devices.

II. Related Work

- Put your work in the context of the related research in the field.
- Summarize related literature and the relationship between the related work.
- Identify missing parts in current research or missing opportunities in applying related work.
- Reference possible future work of other papers to support your work, e.g.: [1].
- Judge existing reproach by its reproducibility and credibility.
- Do not just cite for the number of citations, each citation should have its justification your can defend if needed.

III. Contributions

- Lead up to your contributions.
- Describe your research process.
- Start with theoretical work and work yourself to its applications in your reproach report.
- Document your implementation and solution to the problem described in previous sections.
- Discuss your data collection, training or implementation approach and highlight interesting technical details.
- Feel free to add more sections or subsections and rename existing sections e.g. the Contributions section as you need.

IV. Results & Discussion

- Describe your results in a clrear and understandable way.
- Clearly differentiate between what you have achieved and what you have build upon.
- Ideally add some sort of visual representation of your result that underlines the progress you have made during the research project.
- Make sure that the results are reproducible by your reader if needed
- Critically discuss your results.
- Did you achieve what you set out to do?
- What are the strengths and weaknesses of your research?

V. Future Work & Conclusion

- Summarize your thoughts and state your final conclusion about the work you have performed.
- Describe possible future work in the field that is realted to you work.
- Detail improvements that could be done to your work in a following project.
- Identify the importance of your work and create an arch to the related work and problem defined in the previous chapters.

References

[1] B. Bruegge and A. H. Dutoit, *Object-Oriented Software Engineering Using UML, Patterns, and Java*, 3rd ed. Upper Saddle River, NJ, USA: Prentice Hall Press, 2009.