Thesis Title

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Department of Informatics

A dissertation is submitted for the degree of
Doctor of Philosophy

January 31, 2025

Declaration

I hereby declare that except where specific reference is made to the work of others, the contents of this dissertation are original and have not been submitted in whole or in part for consideration for any other degree or qualification in this, or any other university. This dissertation is my own work and contains nothing which is the outcome of work done in collaboration with others, except as specified in the text and Acknowledgements. This dissertation contains fewer than 65,000 words including appendices, bibliography, footnotes, tables and equations and has fewer than 150 figures.

We have seen that computer programming is an art,
because it applies accumulated knowledge to the world,
because it requires skill and ingenuity, and especially
because it produces objects of beauty.

— Donald E. Knuth (1974) [3]

Dedicated to people living with aphasia and the charity Aphasia Re-Connect.

Abstract

Begin abstract.

Acronyms

GCD Greatest Common Divisor. 14

LCM Least Common Multiple. 14

Acknowledgments

Begin acknowledgments.

List of publications

[1] CURTIS, H., NEATE, T., AND VAZQUEZ GONZALEZ, C. State of the art in aac: A systematic review and taxonomy. In *Proceedings of the 24th International ACM SIGACCESS Conference on Computers and Accessibility* (2022), pp. 1–22.

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Testing citations [2].

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Figure 2.1: Test figure: The best place on earth.

Chapter 3

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Testing tables 3.1.

Table 3.1: Test Table.

Test	**Test**	**Test**
Test	Test	Test
Test	Test	Test

Chapter 4

Paper 1

Testing acronyms. Given a set of numbers, there are elementary methods to compute its Greatest Common Divisor, which is abbreviated GCD.

This process is similar to that used for the Least Common Multiple (LCM).

Chapter 5

Paper 2

Chapter 6

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Chapter 7

Conclusion

7.1 Summary

7.1.1 Subsection

7.2 Future Directions

Bibliography

[2] BANINO, A., BARRY, C., URIA, B., BLUNDELL, C., LILLICRAP, T., MIROWSKI, P., PRITZEL, A., CHADWICK, M. J., DEGRIS, T., MODAYIL, J., WAYNE, G., SOYER, H., VIOLA, F., ZHANG, B., GOROSHIN, R., RABINOWITZ, N., PASCANU, R., BEATTIE, C., PETERSEN, S., SADIK, A., GAFFNEY, S., KING, H., KAVUKCUOGLU, K., HASSABIS, D., HADSELL, R., AND KUMARAN, D. Vector-based navigation using grid-like representations in artificial agents. *Nature 557*, 7705 (2018), 429–433.

[3] KNUTH, D. E. Computer Programming as an Art. *Communications of the ACM 17*, 12 (1974), 667–673.

Appendix A

Appendix 1

An Appendix

Appendix B

Appendix 2

Another appendix.