

Decision Support and Business Intelligence

Information Technologies for Business Intelligence

Master Thesis

Okky PURWANTININGSIH

Visual Analytics on Human Body Movement Data Applied on Healthcare

prepared at Laboratoire d'Informatique, de Robotique et de
Microélectronique de Montpellier

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Abstract: The main objective of this Master thesis is to ...
To achieve this goal, we use ...

All this research work has been implemented in ...
Keywords: Keyword1, 2, ...

Acknowledgments

Last thing to do :-)

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Appendix Example

A.1 Appendix Example section

And I cite myself to show by bibtex style file (two authors) [1].

This for other bibtex stye file : only one author [3] and many authors [2].

Bibliography

- [1] Olivier Commowick and Grégoire Malandain. Efficient selection of the most similar image in a database for critical structures segmentation. In *Proceedings of the 10th Int. Conf. on Medical Image Computing and Computer-Assisted Intervention - MICCAI 2007, Part II*, volume 4792 of *LNCS*, pages 203–210. Springer Verlag, 2007. (Cited on page [11](#).)
- [2] A. Guimond, J. Meunier, and J.-P. Thirion. Average brain models: A convergence study. *Computer Vision and Image Understanding*, 77(2):192–210, 2000. (Cited on page [11](#).)
- [3] David Oakes. Direct calculation of the information matrix via the EM algorithm. *J. R. Statistical Society*, 61(2):479–482, 1999. (Cited on page [11](#).)