

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
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<i>Advisor :</i>	Arnaud SALLABERRY	-	LIRMM	arnaud.sallaberry@lirmm.fr
	Jerôme AZÉ	-	LIRMM	jerome.aze@lirmm.fr
<i>Supervisor :</i>	Nacéra BENNACER	-	Centrale Supélec	nacera.bennacer@supelec.fr

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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Introduction

1.1 Motivation

1.2 Thesis Outline

Visualization Requirements and Related Works

2.1 Visualization Requirements

2.2 Related Works

2.2.1 Serious Game in Healthcare

explain how serious game is used in healthcare. discuss some example.

2.2.2 Hammer and Planks

explain in details about hammer and planks. the story behind the game, how to play the game, rule of the game, the existing visualization.

2.2.3 Visualization of serious game result

discuss how the result of serious game are usually presented (couldn't find any specific paper discussing about this, but there are some paper about serious game which has some visualization to analyze the result of the game)

2.2.4 Visualization of Time Series Data

discuss visualization paradigm usually use to visualize time series data

2.2.5 Visualization of Movement Data

discuss paper about movement data visualization, ex: MotionExplorer, Andrienko's paper and book

2.2.6 Stream Graph

discuss examples of stream graph implementation, how it is used and for which kind of data

2.2.7 Data Visualization Tool

2.2.7.1 D3.js

general explanation of d3js and some example of how it is used to visualize time series and movement data.

2.2.7.2 Three.js

general explanation of three.js and some example.

Implementation

Evaluation

Conclusion

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](#).)
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- [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](#).)