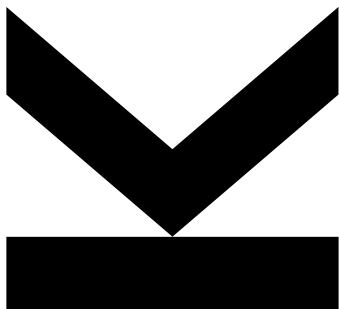Author
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MAKING COMPUTERS UNDERSTAND COALITION AND OPPOSITION IN PARLIAMENTARY DEMOCRACY

Bachelor's Thesis

to confer the academic degree of

Bachelor of Science

in the Bachelor's Program

Informatik (Computer Science)

Affidavit

I hereby declare that the following bachelor's thesis "Making Computers Understand Coalition and Opposition in Parliamentary Democracy" has been written only by the undersigned and without any assistance from third parties.

Furthermore, I confirm that no sources have been used in the preparation of this thesis other than those indicated in the thesis itself.

Linz, on March 11, 2017

Markus Hiesmair

Abstract

abstract...

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Abbreviations

CSS Cascading Style Sheet

ETL Extract Transform Load

JSON Javascript Object Notation

HTML Hypertext Markup Language

REST Representational State Transfer

RSS Rich Site Summary

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Bibliography

[1] A. Amelio and C. Pizzuti. Analyzing voting behavior in italian parliament: Group cohesion and evolution. In *Advances in Social Networks Analysis and Mining (ASONAM), 2012 IEEE/ACM International Conference on*, pages 140–146, Aug 2012.

[2] Michael Bostock, Vadim Ogievetsky, and Jeffrey Heer. D3: Data-driven documents. *IEEE Trans. Visualization & Comp. Graphics (Proc. InfoVis)*, 2011.

[3] Tim Dwyer. Scalable, versatile and simple constrained graph layout. In *Proceedings of the 11th Eurographics / IEEE - VGTC Conference on Visualization*, EuroVis'09, pages 991–1006, Chichester, UK, 2009. The Eurographs Association & John Wiley & Sons, Ltd.

[4] Google Inc. *Polymer Project*, 2015. `https://www.polymer-project.org/1.0/`.

[5] Forum Informationsfreiheit. *Informationsfreiheit.at*, Dec 2015. `http://www.informationsfreiheit.at/`.

[6] Renzo Lucioni. *Senate Voting Relationships*, 2013. `http://www.renzolucioni.com/senate-voting-relationships/`.

[7] Austrian Parliament. *The Austrian Parliament*, Dec 2015. `http://www.parlament.gv.at/ENGL/PERK/PARL/`.

[8] Mason A. Porter, M. E. J. Newman, Peter J. Mucha, and Casey M. Warmbrand. A network analysis of committees in the u.s. house of representatives. *PNAS*, Jan 2005.