

University of Groningen

Individualism, nationalism, ethnocentrism and authoritarianism

Toharudin, Toni

IMPORTANT NOTE: You are advised to consult the publisher's version (publisher's PDF) if you wish to cite from it. Please check the document version below.

Document Version

Publisher's PDF, also known as Version of record

Publication date:

2010

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Toharudin, T. (2010). *Individualism, nationalism, ethnocentrism and authoritarianism: Evidence from Flanders by means of structural equation modeling*. [Thesis fully internal (DIV), Rijksuniversiteit Groningen]. s.n.

Copyright

Other than for strictly personal use, it is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license (like Creative Commons).

The publication may also be distributed here under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license. More information can be found on the University of Groningen website: <https://www.rug.nl/library/open-access/self-archiving-pure/taverne-amendment>.

Take-down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

Downloaded from the University of Groningen/UMCG research database (Pure): <http://www.rug.nl/research/portal>. For technical reasons the number of authors shown on this cover page is limited to 10 maximum.

**Individualism, Nationalism, Ethnocentrism and Authoritarianism
Evidence from Flanders by means of Structural Equation Modeling**

Toni Toharudin

ISBN: 978-90-367-4667-0
Toni Toharudin. All rights reserved

RIJKSUNIVERSITEIT GRONINGEN

**Individualism, Nationalism, Ethnocentrism and Authoritarianism
Evidence from Flanders by means of Structural Equation Modeling**

Proefschrift

ter verkrijging van het doctoraat in de
Ruimtelijke Wetenschappen
aan de Rijksuniversiteit Groningen
op gezag van de
Rector Magnificus, dr. F. Zwarts,
in het openbaar te verdedigen op
donderdag 9 december 2010
om 13:15 uur

door

Toni Toharudin

geboren op 1 april 1970
te Tasikmalaya, Indonesië

Promotor: Prof. dr. H. Folmer

Copromotor: Dr. J.H.L. Oud

Beoordelingscomissie: Prof. dr. J. Billiet (KU Leuven)
Prof. dr. B. Nurani (Universiteit Padjadjaran)
Prof. dr. P. Mc. Cann (RUG)

CONTENTS

CONTENTS	5
LIST OF TABLES	8
LIST OF FIGURES	9
SAMENVATTING (DUTCH SUMMARY)	11
ACKNOWLEDGEMENTS	13
CHAPTER 1 THE PURPOSE OF THE STUDY	15
1.1 Background	15
1.2 Nationalism, individualism, ethnocentrism and authoritarianism	16
1.3 Continuous Time-Structural Equation Modeling	18
1.4 Research Objectives	19
1.5 Overview of the Thesis	19
References	21
CHAPTER 2 THE SOCIO-ECONOMIC AND POLITICAL STRUCTURE OF BELGIUM	23
2.1 Brief History of Belgium	23
2.2 The Belgian Economy in a nutshell	26
2.3 The political system	28
2.3.1 Belgium as a Constitutional Monarchy	28
2.3.2 The Federal Structure	29
2.4 The Electoral System and Multiparty Structure	31
2.5 The Flemish Community and Flemish Region	34
2.6 Racism in Flanders	36
2.7 Conclusion	37
References	39
CHAPTER 3 A CONCEPTUAL MODEL OF THE RELATIONSHIPS BETWEEN INDIVIDUALISM, ETHNOCENTRISM, NATIONALISM AND AUTHORITARIANISM	41
3.1 Introduction	41

3.2 Individualism.....	43
3.3 Ethnocentrism.....	48
3.4 Nationalism	52
3.5 Authoritarianism.....	57
3.6 Conceptual model of interdependence.....	60
3.7 Conclusion	62
References.....	63
CHAPTER 4 MEASURING AUTHORITARIANISM WITH DIFFERENT SETS OF ITEMS IN A LONGITUDINAL STUDY	69
4.1 Introduction	70
4.2 General Election Study	70
4.3 Analysis and Results.....	72
4.4. Conclusion.....	75
References.....	76
CHAPTER 5 ASSESSING THE RELATIONSHIPS BETWEEN NATIONALISM, ETHNOCENTRISM, AND INDIVIDUALISM IN FLANDERS USING BERGSTROM'S APPROXIMATE DISCRETE MODEL	77
5.1 Introduction	78
5.2 Continuous time modeling by means of the approximate discrete model	80
5.2.1. Continuous time model	80
5.2.2. Exact Discrete Model (EDM).....	81
5.2.3. Approximate Discrete Model (ADM).....	82
5.2.4. Application of the ADM in SEM.....	83
5.3. Respondents and measurement model.....	85
5.3.1. Respondents.....	85
5.3.2. Measurement Model	86
5.4. Results on the latent dynamic level	90
5.5 Autoregression functions and cross-lagged effect functions	92
5.6 Conclusions	95

References.....	97
CHAPTER 6 THE RELATIONSHIPS BETWEEN INDIVIDUALISM, NATIONALISM, ETHNOCENTRISM, AND AUTHORITARIANISM IN FLANDERS, ANALYZED IN CONTINUOUS TIME BY MEANS OF THE EDM/SEM MODEL	99
6.1 Introduction.....	100
6.2 The EDM/SEM model.....	101
6.3 Identification of the EDM/SEM model for four state variables and three time points with equal observation intervals.....	104
6.4 Estimation results	109
6.5 Autoregression functions, cross-lagged effect functions, and latent mean trajectory estimates and predictions.....	117
6.6 Conclusions	120
References.....	121
CHAPTER 7 SUMMARY AND CONCLUSIONS	123
7.1 Introduction.....	123
7.2 Problem statement and research questions	123
7.3 Methodology and data set	126
7.4 The main empirical results	128
7.5 Reflections on the methodology and the implications of the empirical results	134
7.6 Some suggestions for further research.....	136
STELLINGEN BEHORENDE BIJ HET PROEFSCHRIFT	137
CURRICULUM VITAE	139

List of Tables

Table 2.1 Some socioeconomic characteristics of Belgium	24
Table 4.1 Authoritarianism items in 1991, 1995, 1999	71
Table 4.2 Items selected in waves	73
Table 4.3 Results of the congenericness tests: point estimates r and 95% interval estimates [r _{low} ; r _{high}] of the latent correlation coefficient ρ	75
Table 5.1 Geographical distribution of panel respondents in Flanders and Brussels: respondents interviewed in 1991, 1995 as well as 1999	85
Table 5.2 Loadings, measurement origins, and measurement error variances for the items of the latent variables (t-values italic)	87
Table 5.3 ADM estimates by means of LISREL (in $\tilde{\mathbf{A}}$, $\tilde{\mathbf{b}}$, and $\tilde{\mathbf{Q}}$; t-values italic) and EDM estimates by means of Mx (in \mathbf{A} , \mathbf{b} , and \mathbf{Q}); the values in $\tilde{\mathbf{A}}$ and \mathbf{A} have been standardized	91
Table 5.4 Estimates of the initial state variances and covariances in $\Phi_{x_{t_0}}$ and the initial state means in $\mu_{x_{t_0}}$ by means of LISREL	93
Table 6.1 Loadings (unstandardized), measurement origins, measurement error variances, and reliabilites (R^2) for the items of the latent variables (z-values italic)	110
Table 6.2 EDM Estimates by means of Mx (in \mathbf{A} , \mathbf{b} , and \mathbf{Q} ; z-values in italic); \mathbf{A} have been standardized	113
Table 6.3 Autoregression matrix $\mathbf{A}\Delta t$ based on drift matrix \mathbf{A} in Table 6.1 for $\Delta t=4$	115
Table 6.4 95% likelihood-based confidence intervals for the cross-coefficients in \mathbf{A} , computed by Mx; unstandardized estimates	116
Table 6.5 Mx estimates of $\Phi_{x_{t_0}}$ and $\mu_{x_{t_0}}$	116
Table 7.1 Geographical distribution of panel respondents in Flanders and Brussels interviewed in 1991, 1995 and 1999	127

List of Figures

Figure 2.1 Map of Belgium.....	25
Figure 2.2 Flemish and Walloon Regions	25
Figure 2.3 Map of Brussels-Halle-Vilvoorde	34
Figure 2.4. Map of the Flemish Region.....	35
Figure 3.1. The hypothesized recursive (causal chain) structure between latent state variables individualism (I), ethnocentrism (E), nationalism (N) and authoritarianism (A).....	60
Figure 4.1 Congeneric measures model with 2 items in one measure and four items in a second measure.....	74
Figure 5.1 Dynamic relationships between latent state variables Individualism (I), Ethnocentrism (E), and Nationalism (N) as hypothesized (A) and found in the empirical analysis (B).....	94
Figure 5.2 Autoregression functions	94
Figure 5.3 Cross-lagged effect functions for the significant cross-effects in Table 5.3.....	95
Figure 6.1 Dynamic relationships between latent state variables Authoritarianism (A), Ethnocentrism (E), Individualism (I), and Nationalism (N); only significant effects are included and standardized coefficients reported	115
Figure 6.2 Autoregression Functions	117
Figure 6.3 Cross-lagged effect functions for the significant cross-effects in Table 6.2.....	118
Figure 6.4 Latent mean estimates and predictions over 1991-2051.....	119
Figure 7.1 The postulated recursive structure between latent state variables.....	125
Figure 7.2 The recursive cross-lagged structure among individualism, nationalism and ethnocentrism	129
Figure 7.3 The estimated relationships between individualism, ethnocentrism, and nationalism	130
Figure 7.4 The hypothesized relationships between individualism, nationalism, ethnocentrism and authoritarianism.....	131
Figure 7.5 The estimated relationships between nationalism, individualism, ethnocentrism and authoritarianism	132

