Contents

Part One: Introduction

Chapter 1: Introduction (Petr Dostál, Jakub Langhammer)
Chapter 2: Geographical/environmental systems: possibilities and limits of knowledge \dots 19 (Martin Hampl)
Chapter 3: Systemic geographical approach, methodological plurality, uncertainties and risks (Petr Dostál, Martin Hampl)
Part Two: Physical geographical analyses: examples of modelling
Chapter 4: Types of flood risks on the territory of the Czech Republic
Chapter 5: Modelling the Elbe river water quality changes
Chapter 6: Modelling of the erosion risk in the Blšanka river basin
Chapter 7: Automated fuzzy rule based classification of circulation patterns: basis for multivariate stochastic generating of precipitaion series
Chapter 8: Modelling of environmental pollution in urban areas with GIS
Chapter 9: Modelling urban climate in the Prague region
Chapter 10: Landscape models and their utilising

Part Three: Modelling land use, society and population dynamics

Chapter 11: Land use development in the Czech Republic and possibilities of generalization and modelling (Ivan Bičík, Lucie Kupková)	179
Chapter 12: Suburbanization and urbanization of Prague – the theory of zonal models and reality (Lucie Kupková)	205
Chapter 13: Differences in infant risk of dying in an egalitarian society: the case of the Czech Republic (Jitka Rychtaříková)	227
Chapter 14: Biosocial and geographical evaluation of risks: Czech birth cohorts, 1994–98 (Dagmar Dzúrová)	249
Chapter 15: Explaining differentiation in regional development level in the Czech Republic: non-experimental LISREL modelling (Petr Dostál)	257