

TABLE OF CONTENTS

PART	PAGE
I. Introduction	1
II. Safety Analysis in Critical Domains	13
Chapter 1-An Integrative Agent Model for Adaptive Human-Aware Presentation of Information during Demanding Tasks.....	17
Chapter 2-An Agent-Based Approach for Accident Analysis in Safety Critical Domains: A Case Study on a Runway Incursion Incident.....	39
Chapter 3-Comparing Modelling Approaches in Aviation Safety	67
Chapter 4-Analysis of Accident Risk Related Events and Roles of Agents in Conflict Recognition and Resolution during a Runway Incursion Scenario	89
Chapter 5-Agent-Based Simulation of Complex Aviation Incidents by Integrating Different Cognitive Agent Models	107
Chapter 6-Spread of Situation Awareness in a Group: Comparison of Population-Based vs. Agent-Based Models	125
III. Computerized Health Behaviour Support	145
Chapter 7-An Intelligent Support System for Diabetic Patients	147
Chapter 8-A Computational Model of Habit Learning to Enable Ambient Support for Lifestyle Change	161
Chapter 9-Contagion of Habitual Behavior in Social Networks: an Agent-Based model	179
Chapter 10-Intelligent Mobile Support for Therapy Adherence and Behavior Change	199
IV. Conclusions and Future Work	237
Nederlandse Samenvatting.....	259
Appendix	
A. Contagion of Habitual Behavior in Social Networks: an Agent-Based model ..	263
SIKS Dissertation Series	267