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## Self-organized collective escape in bird flocks

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# **Self-organized collective escape in bird flocks**

**Proefschrift**

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*To my parents, Maria and Vassilis*



*"We accept the reality of the world with which we're presented.  
It's as simple as that."*

Andrew Niccol, for Peter Weir's 'The Truman Show'

The research presented in this thesis was carried out at the Theoretical Research in Evolutionary Life Sciences (TRÉS) department at the Groningen Institute for Evolutionary Life Sciences (GELIFES) of the University of Groningen (The Netherlands), and funded by the Netherlands Organisation for Scientific Research (NWO) as part of the Open Technology Programme (OTP) project '*Preventing bird strikes: Developing RoboFalcons to deter bird flocks*' (number 14723), awarded to Charlotte K. Hemelrijk.

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