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## Emergence of design

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VRIJE UNIVERSITEIT

# **EMERGENCE OF DESIGN**

ACADEMISCH PROEFSCHRIFT

ter verkrijging van de graad Doctor aan  
de Vrije Universiteit Amsterdam,  
op gezag van de rector magnificus  
prof.dr. L.M. Bouter,  
in het openbaar te verdedigen  
ten overstaan van de promotiecommissie  
van de faculteit der Aard- en Levenswetenschappen  
op maandag 12 september 2011 om 15.45 uur  
in de aula van de universiteit,  
De Boelelaan 1105

door

Alexey Nikolaevich Kolodkin

geboren te Irkutsk, Rusland

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