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Address

Computer Science
Stellenbosch
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Brink van der Merwe

Professor in Computer Science

Executive summary of research interests My main research interest is algorithmics and natural language processing, but I also have a side interest in the verification and testing of mobile applications, and also in the internet of things. In algorithmics, I have been focusing on the understanding and modeling of performance-related shortcomings of real-world regular expression matchers. In NLP, I have applied machine learning and finite state methods to a variety of problems including the automatic classification of online news comments (as being of an acceptable standard or otherwise being slander or racist or in general badly written) and also on automatic grammar correction. I have also applied NLP-related techniques to the task of algorithmic music composition and have studied ways of modeling the relationship between syntax and semantics in natural language.

Education

1995: Ph.D. in Mathematics

Texas A&M University, Advisor: CJ Maxson

Recent Employment History

2005 - 2007

Associate Prof and Head of Computer Science at Stellenbosch University

2008 - 2014

Associate Professor, Computer Science, Stellenbosch University

2015 - current

Full Professor, Computer Science, Stellenbosch University

Student Supervision

2008 - current

Nine students received their master's degrees (7 of them cum laude) and one student her Ph.D. (December 2017) under my supervision. Currently, I supervise 3 master's and 2 Ph.D. students.

Research

Publications

My Google Scholar and DBLP pages list my approximately 70 peer-reviewed publications and 400 citations over the past 5 years.

<https://scholar.google.com/citations?hl=en&user=TKlHqnMAAAAJ>

http://dblp.uni-trier.de/pers/hd/m/Merwe:Brink_van_der.html

NRF Rating

C2

Editorial boards

Editorial Board member of Journal of Universal Computer Science

Conference Programme Committees

Programme Committee member of the conference Implementation and Application of Automata (CIAA 2014, 2015, 2017, 2019)