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## **Algorithmic tools for data-oriented law enforcement**

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# Curriculum Vitae

Tim Cocx is geboren in Amstelveen, Noord-Holland, op 18 december 1979. Van 1992 tot 1998 doorliep hij het Gymnasium op het Sint Nicolaas Lyceum te Amsterdam. Van 1998 tot 2004 studeerde hij Informatica aan de Universiteit Leiden, waar hij de laatste jaren ook betrokken was bij verschillende vakken als practicum- en werkgroepassistent. Vanaf 2005 was hij verbonden aan het Leiden Institute of Advanced Computer Science als promovendus, waar hij zijn promotieonderzoek uitvoerde. Eveneens gaf hij in die jaren verschillende vakken in de Masteropleiding Mediatechnologie.



# Publication List

Most chapters in this thesis are based peer reviewed publications. Chapter 2 is based upon work published in [4]. In Chapter 3 we elaborate on research first published as [1]. Chapter 4 is a modification of [2] and was also published in extended abstract form [3]. The research described in Chapter 5 was first made public in [7]. Chapter 7, published as [8, 9], is a prelude to Chapter 8 that is based upon [6]. The author's first published paper [5] appears in this thesis as Chapter 9.

Chapter 10 was accepted for presentation at the AusDM conference, Australia, in a previous form and to appear in *Conferences in Research and Practice in Information Technology*, but was withdrawn due to organizational issues. Chapter 6 was written specifically for this thesis.

- [1] J. Broekens, T. Cocx, and W.A. Kusters. Object-centered interactive multi-dimensional scaling: Ask the expert. In *Proceedings of the Eighteenth Belgium-Netherlands Conference on Artificial Intelligence (BNAIC2006)*, pages 59–66, 2006.
- [2] J.S. de Bruin, T.K. Cocx, W.A. Kusters, J.F.J. Laros, and J.N. Kok. Data mining approaches to criminal career analysis. In *Proceedings of the Sixth IEEE International Conference on Data Mining (ICDM 2006)*, pages 171–177. IEEE, 2006.
- [3] J.S. de Bruin, T.K. Cocx, W.A. Kusters, J.F.J. Laros, and J.N. Kok. Onto clustering criminal careers. In *Proceedings of the ECML/PKDD 2006 Workshop on Practical Data Mining: Applications, Experiences and Challenges*, pages 92–95, 2006.
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- [7] T.K. Cocx, W.A. Kusters, and J.F.J. Laros. Enhancing the automated analysis of criminal careers. In *SIAM Workshop on Link Analysis, Counterterrorism, and Security 2008 (LACTS2008)*. SIAM Press, 2008.
- [8] T.K. Cocx, W.A. Kusters, and J.F.J. Laros. Temporal extrapolation within a static clustering. In *Foundations of Intelligent Systems, Proceedings of the Seventeenth International Symposium on Methodologies for Intelligent Systems (ISMIS 2008)*, volume 4994 of *LNAI*, pages 189–195. Springer, 2008.
- [9] T.K. Cocx, W.A. Kusters, and J.F.J. Laros. Temporal extrapolation within a static clustering, extended abstract. In *Proceedings of the Eighteenth Belgium-Netherlands Conference on Artificial Intelligence (BNAIC2008)*, pages 295–296. BNAIC, 2008.

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