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Algorithmic tools for data-oriented law enforcement

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Citation

Cocx, T. K. (2009, December 2). *Algorithmic tools for data-oriented law enforcement*. Retrieved from <https://hdl.handle.net/1887/14450>

Version: Corrected Publisher's Version

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Note: To cite this publication please use the final published version (if applicable).

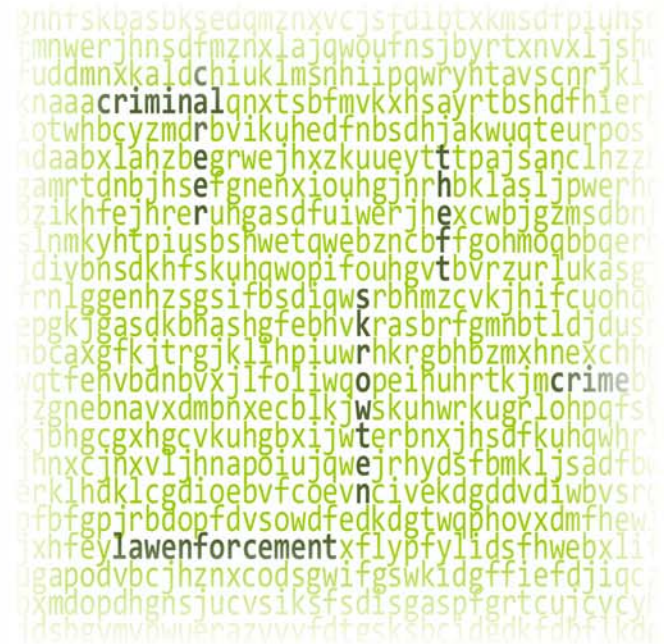


Tim Cocx studied computer science at Leiden University, after which he continued his academic career through a PhD program that focused on the applicability of data mining technology on digital police resources. This thesis is a compilation of the acquired results.

The increase in capabilities of information technology of the last decade has led to a large increase in the creation of raw data. Data mining, a form of computer guided, statistical data analysis, attempts to draw knowledge from these sources that is usable, human understandable and was previously unknown.

One of the potential application domains is that of law enforcement. This thesis describes a number of efforts in this direction and reports on the results reached on the application of its resulting algorithms on actual police data. The usage of specifically tailored data mining algorithms is shown to have a great potential in this area, which forebodes a future where algorithmic assistance in “combating” crime will be a valuable asset.

Tim Cocx
Algorithmic Tools for Data-Oriented Law Enforcement



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