



UvA-DARE (Digital Academic Repository)

Spectral analysis of blood stains at the crime scene

Edelman, G.J.

Publication date
2014

[Link to publication](#)

Citation for published version (APA):

Edelman, G. J. (2014). *Spectral analysis of blood stains at the crime scene*. [Thesis, fully internal, Universiteit van Amsterdam].

General rights

It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations

If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: <https://uba.uva.nl/en/contact>, or a letter to: Library of the University of Amsterdam, Secretariat, P.O. Box 19185, 1000 GD Amsterdam, The Netherlands. You will be contacted as soon as possible.

TABLE OF CONTENTS

1 - Introduction.....	- 7 -
2 - Hyperspectral imaging for non-contact analysis of forensic traces.....	- 13 -
3 - Reflectance spectroscopy and hyperspectral imaging for the identification of blood stains.....	- 43 -
4 - Hyperspectral imaging for the age estimation of blood stains at the crime scene.....	- 63 -
5 - Practical implementation of blood stain age estimation	- 79 -
6 - Visualization of latent blood stains using visible reflectance hyperspectral imaging and chemometrics.....	- 97 -
7 - Identification and age estimation of blood stains on coloured backgrounds by near infrared spectroscopy.....	- 111 -
8 - Infrared imaging of the crime scene: possibilities and pitfalls.....	- 131 -
9 - Discussion.....	- 149 -
10 - References.....	- 169 -
11 - Summary	- 189 -
12 - Samenvatting	- 191 -
13 - Curriculum vitae.....	- 195 -
14 - Portfolio	- 196 -
15 - List of publications	- 198 -
16 - Dankwoord.....	- 201 -