



*De Werkgemeenschap voor Informatie- en Communicatietheorie in de Benelux
and the
BBfor2 Marie Curie Training Network
organize a midwinter meeting on*

Computational Forensics

Tuesday, February 8, 2011

“De Zwarte Doos” of the Technical University of Eindhoven (TU/e), Eindhoven

Computational forensics, also referred to as *digital forensics*, is a quantitative approach to the methodology of the forensic sciences, which are dedicated to the methodical gathering and analysis of evidence that can be presented in court. Computational forensics provides, for example, rigorous quantification of individuality, and increased efficiency and effectiveness of daily forensic casework. It involves computer-based modelling, simulation, analysis, and recognition in studying and solving problems posed in various forensic disciplines. A wide range of objects, substances and processes are investigated, mainly based on pattern evidence, such as tool marks, fingerprints, shoeprints, documents, but also physiological and behavioural patterns, DNA, digital evidence and crime scenes. Algorithms implemented are from the fields of signal and image processing, computer vision, computer graphics, data visualization, statistical pattern recognition, data mining, machine learning, and robotics.

PROGRAMME

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| 09.30 | Registration |
| 10:00 | Opening and welcome address , Luuk Spreeuwers, University of Twente, Enschede, The Netherlands |
| 10:05 | Introduction to the science of forensics , Didier Meuwly, Netherlands Forensic Institute, The Netherlands |
| 10:35 | On the calibration of likelihood ratios , Daniel Ramos, Universidad Autónoma de Madrid, Spain |
| 11:05 | Coffee break |
| 11:25 | Using automatic speaker ID in court , Hermann Künzel, University of Magdeburg, Germany |
| 12:10 | Handwritten document examination , Louis Vuurpijl, Radboud University, Nijmegen, The Netherlands |
| 12:40 | Lunch |
| 13:40 | Forensic face recognition , Arnout Ruifrok, Netherlands Forensic Institute, The Netherlands |
| 14:10 | DNA , David Balding, UCL Genetics Institute, London, UK |
| 14:55 | Tea Break |
| 15:15 | Cybercrime , Eward Driehuis, Fox-IT, The Netherlands |
| 15:45 | On document forgery , Hans de Moel, Koninklijke Marechaussee, The Netherlands |
| 16:15 | Closing , David van Leeuwen, Radboud University, Nijmegen, The Netherlands |

REGISTRATION

Participants should register by e-mail to WIC2011MWM@ewi.utwente.nl before January 25, 2011, indicating name, address, e-mail address, and affiliation. The number of participants is limited. All registrations will be acknowledged. The admission fee including lunch is €55, - per person and must be paid in cash upon entering the “Zwarte Doos”.

DIRECTIONS

Directions to TU/e can be found at http://w3.tue.nl/en/the_university/route_and_map/

ORGANIZERS

Raymond Veldhuis, Luuk Spreeuwens (University of Twente), David van Leeuwen (Radboud University)

LOCAL ARRANGMENTS

Frans Willems (TU/e), Ludo Tolhuizen (Philips Research Laboratories, Eindhoven)

SPONSOR

The IEEE Benelux Chapter on Information Theory.