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

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 Marburg, Germany

12:10   **Cybercrime,** Eward Driehuis, Fox-IT, 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   **Handwritten document examination,** Louis Vuurpijl, Radboud University, Nijmegen, 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 Spreeuwers (University of Twente), David van Leeuwen (Radboud University)

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

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