## COST ACTION CA16101 MULTI-modal Imaging of FOREnsic SciEnce Evidence tools for Forensic Science

#### Grant Period 2 Conference

### 5-8.11.2018, DUBROVNIK, CROATIA

## Forensic Imaging Techniques - an exploration of their potential as standalone tools and within a multimodal approach

## PROGRAM

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| --- | --- | --- | --- | --- |
|  | 5th November | 6th November | 7th November | 8th November |
| 8:00 – 9:00 | Registration | Registration |  |  |
| 9:00 – 10:30 | WG1 and WG2 meeting | 9:00 – 9:10 Welcome9:10 – 9:50 R. Heeren9:50 – 10:10 A. Becue10:10 10:30 C. Costa | 9:00 – 9:30 E. Cyupers9:30 – 9:50 J. Weerd9:50 – 10:10 A. Udal10:10 – 10:30 A. Meller | Leaving of the participants |
| 10:30 -11:00 | Coffee break | Coffee break | Coffee break |
| 11:00-12:30 | WG1 and WG2 meeting | 11:00 – 11:30 M. Tistarelli11:30 – 11:50 N. Passalis11:50 – 12:10 H.K. Ekenel12:10 – 12:30 B.A. Assanovich | 11:00 – 11:30 F. Falchi11:30 – 11:50 C. Vairo11:50 -12:10 A. Vadalazau12:10 – 12:30 H.K. Ekenel |
| 12:30 – 14:00 | Lunch | Lunch | Lunch |
| 14:00 – 15:30 | MC Meeting | 14:00 – 14:30 M. Bailey14:30 – 14:50 M. Algarra14:50 – 15:10 C. Villa15:10 – 15:30 M. Ristova | 14:00 -14:30 P.L. Correia14:30 -14:50 M. Hain14:50 – 15:10 M. Barac15:10 – 15:30 J. Spigulis |
| 15:30-16:00 | Coffee break | Coffee break |  Guided tour + social dinner |
| 16:00 –18:00 | MC Meeting | 16:00 – 16:20 S. Francese16:20 – 16:40 T. Fischer16:40 – 17:00 B. Majaron17:00 – 17:20 I. Safarik |

**Monday - 5/11/2018**

9:00 – 10:30 WG1 and WG2 meetings

10:30 - 11:00 Coffee break

11:00 – 12:30 WG1 and WG2 meetings

12:30 – 14:00 Lunch

14:00 – 15:30 MC Meeting

15:30 – 16:00 Coffee break

16:00 – 18:00 MC Meeting

## Tuesday 6/11/2018

9:00 – 9:10 Welcome

9:10 – 9:50 Plenary R.M.A. Heeren - Resolving complexity with molecular imaging for forensic research

9:50 – 10:10 Andy Bécue - Investigation into the use of MALDI-MSI to monitor the variability of composition of fingermarks between donors and over time

## 10:10 – 10:30 Catia Costa - Imaging of fingerprints using secondary ion mass spectrometry (SIMS)

## 10:30 – 11:00 Coffee break

## 11:00 – 11:30 Massimo Tistarelli - Human Face Recognition: Potential, Challenges and Future Developments

## 11:30 – 11:50 Nikolaos Passalis - Fast Face Image Retrieval using Probabilistic Knowledge Transfer

## 11:50 – 12:10 Hazım Kemal Ekenel - Deep Face Embedding for Low Resolution Face Recognition

## 12:10 – 12:30 Boris A. Assanovich - Biometric Scheme Based on Non-Binary Turbo Codes

## 12:30 – 14:00 Lunch

## 14:00 – 14:30 Melanie Bailey - New approaches in microscale mass spectrometry: from fingerprints to organelles

## 14:30 – 14:50 Manuel Algarra - Fingerprints Images based on Biocompatible Carbon Dots

## 14:50 – 15:10 Chiara Villa - Virtual 3D reconstruction of a controlled bus bombing

## 15:10 – 15:30 Mimoza Ristova SEM/EDX analysis of the dental cementum to establish one human's lifestyle for forensic applications (pilot study)

## 15:30 – 16:00 Coffee break

## 16:00 – 16:20 Simona Francese - Investigation of infinite focus microscopy for the determination of the association of blood withfingermarks

## 16:20 – 16:40 – Thomas Fischer - Specific identification of blood stains by means of multispectral classification techniques

## 16:40 – 17:00 – Boris Majaron - Toward objective assessment of bruise age by combining diffuse reflectance spectroscopy and photothermal radiometry

## 17:00 - 17:20 - Ivo Safarik - Magnetic textile solid phase extraction for the preconcentration of target analytes

## Wednesday 7/11/2018

## 9:00 – 9:30 Eva Cyupers - Potential of imaging mass spectrometry in forensic toxicological services

## 9:30 – 9:50 Jaap van der Weerd- SHUTTLE: a European Toolkit for Trace analysis

## 9:50 – 10:10 Andres Udal - Multi-Modal Sensor Data Fusion in City Environment Monitoring Projects SMENETE and IMO

## 10:10 – 10:30 Amit Meller - Nanopores for ultra-sensitive sensing of minute DNA samples

## 10:30 – 11:00 Coffee break

## 11:00 – 11:30 F. Falchi - Attacking deep neural networks with adversarial images

## 11:30 – 11:50 Claudio Vairo - Facial-based Intrusion Detection System with Deep Learning in Embedded Devices

## 11:50 – 12:10 Artsemi Vadalazau - Special computer program to solving the problem of localization of poor informative fingerprints

## 12:10 – 12:30 Hazım Kemal Ekenel - A Comprehensive Analysis of Ear Biometry

## 12:30 – 14:00 Lunch

## 14:00 – 14:30 30 P.L. Correia - Image-based Biometrics in Forensic Scenarios – Exploring ‘Richer’ Image Representations

## 14:30 – 14:50 Miroslav Hain - Forensic study of paper documentation for contractual fraud revelation purposes

## 14:50 – 15:10 Marko Barac - Determination of deposition order of different ballpointpen inks, inkjet inks and laser toners – comparison of MeV SIMS and standard forensic techniques

## 15:10 – 15:30 J. Spigulis - Snapshot triple spectral line imaging for counterfeit detection

## 15:30 - Guided tour of old city + social dinner