

COMPUTER FORENSICS IN LEGAL PROCEEDINGS

OPEN SOURCE INTELLIGENCE TOOLS

Prague, 9-10 March 2020

Speakers and chairs

Laviero Buono, Head of European Criminal Law, ERA, Trier

Alexandru Frunza-Nicolescu, Prosecutor, Bucharest 1st District
Prosecutor's Office, Bucharest

Stephen Hill, Managing Director, Hill Bingham Ltd, London

Eva Indruchová, Head of International Department, Czech Bar
Association, Prague

Damir Kahvedžić, Solutions Advisor & Operations Manager,
ProSearch Strategies Inc., Dublin

Angus Marshall, Founding Director, Digital Evidence Virtual
Centre of Excellence; Member of the Forensic Science Special
Interest Group, Darlington

Cristian Nicolau, Head of Section, Unit B4, eJustice, IT, Logistics
and Document Management, DG Justice and Consumers,
European Commission, Brussels

Jiří Novák, Lawyer, Chair of the CCBE IT Law Committee, Prague

John Van Krieken, Judge, Court of Appeal, Tilburg

Key topics

- Open source intelligence tools (OSITs)
- Technical issues (internet caches, proxy servers, encryption, etc.)
- The Web, the Dark/Deep Web and sources of evidence available online
- Online investigations: websites and social media
- Legal aspects of computer forensics

Language
English

Event number
320DT01

Organisers
ERA (Laviero Buono) in cooperation
with the Czech Bar Association



COMPUTER FORENSICS IN LEGAL PROCEEDINGS

Monday, 9 March 2020

08:30 Arrival and registration of participants

09:00 **Welcome and introduction to the programme**
Eva Indruchová & Laviero Buono

PART I: INTERNET INVESTIGATIONS AND OPEN SOURCE

This Part aims to introduce participants to the concepts around the internet and its supporting tools for investigation/research. It will make participants aware of the sources of evidence available to them in online investigations. The objective is to improve their ability to work with current internet technologies.

Chair: Laviero Buono

09:15 **Finding and investigating digital footprints with open-source intelligence**

- Search engines, meta browsers and deep web databases
- Direct search techniques
- Tools to assist with due diligence and know-your-client checks
- Geo-location tools for social media and photos
- Protecting your privacy when going online
- Secure web browsers, VPNs and TOR

Stephen Hill

10:15 Discussion

10:30 Coffee break

11:00 **History and evolution of criminal use of mobile communications: an expert witness' view**
Angus Marshall

12:00 Discussion

12:15 Lunch

PART II: CONDUCTING A FORENSIC ANALYSIS

This Part will show how a real digital forensic investigation is carried out. The module will explain to attendees how to respond correctly to a potential forensics investigation in order to maximise the amount of information that is preserved and to avoid any common mistakes early in the investigative process. Participants will gain an insight into what devices hold the most information and how sources such as PCs, smartphones and the internet are investigated. The experts will present real-life examples, case studies and tool demonstrations in order to illustrate the key concepts covered by the module.

Chair: Laviero Buono

13:45 **Preservation, chain of custody and incident handling with Open-Source Tools**

- Best practices and common mistakes
- First responder guidelines and checklist
- Preservation of the scene with open-source software
- Comparison of techniques
- Open source vs closed sources vs freeware software

Damir Kahvedžić

14:45 Discussion

15:00 Coffee break

Objective

The main objective of this seminar is to train EU legal practitioners on the fundamentals of computer forensics enabling them to gain an understanding of the complex challenges related to criminal cases with tech/internet components. This seminar will focus on open-source intelligence tools and forensic analysis.

About the Project

This seminar is part of a large-scale project sponsored by the European Commission entitled "Basic computer forensics skills for EU legal practitioners: practice-oriented training courses to meet the challenges of new technologies". It consists of six seminars to take place in Vilnius, Lisbon, Zagreb, Prague, Barcelona and Trier.

Who should attend?

Judges, prosecutors and lawyers in private practice from eligible EU Member States (UK and Denmark do not participate in the Justice Programme 2014-2020).

Venue

Czech Bar Association
Palác Dunaj, Národní 10, entry from
Voršilská street 14
110 00, Prague 1

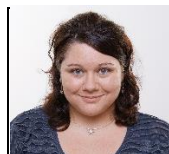
CPD

ERA's programmes meet the standard requirements for recognition as Continuing Professional Development (CPD). This event corresponds to **8.5 CPD hours**.

Your contact persons



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e-Presentations

- 15:30 **Conducting a forensic analysis with open-source tools**
- Using open-source software to uncover evidence tracks
 - How to examine USB keys, social media, mobile devices and hard drives
 - How to find erased photos
 - Advantages of open-source tools
 - Software demonstrations and the future
- Damir Kahvedžić*
- 16:30 Discussion
- 17:00 End of first day
- 20:00 Dinner

Tuesday, 10 March 2020

PART III: COMPUTER FORENSICS AND LEGAL ASPECTS

This Part will illustrate the sorts of legal disputes that can arise involving digital forensics investigations and electronic evidence, namely the legal, practical and technical problems that legal practitioners are confronted with in criminal proceedings where e-evidence is collected, analysed and ultimately presented in court.

Chair: Jiří Novák

- 09:30 **Asserting the lawfulness and reliability of e-evidence obtained with the use of digital forensics**
- Challenges regarding territoriality and jurisdiction
 - Technical challenges
 - Authentication process
 - Linking e-evidence with the perpetrator
- Alexandru Frunza-Nicolescu*
- 10:15 **Handling forensically extracted electronic evidence in courts**
- The importance of the chain of custody in handling evidence
 - Trial considerations: methods of presentation and admissibility tests
- John Van Krieken*
- 11:00 Discussion
- 11:15 Coffee break
- Chair: Laviero Buono*
- 11:45 **Computer forensics and electronic evidence in court: experiences in Czech Republic**
- Jiří Novák*
- 12:15 **The new e-Evidence Digital Exchange System: key features**
- Cristian Nicolau*
- 12:45 Discussion
- 13:00 End of seminar and lunch

For programme updates: www.era.int
Programme may be subject to amendment.

Cyber Risks in Financial Institutions: Lessons learned in responding to them
Livi Chirita / May 2017

Approaches to Prepare Proactively for Cybercrime Incidents
Dave O'Reilly / May 2017

Cyber Menaces and Different Types of Cybercrime Offences
Cormac Callanan

Specialised e-Courses

Fighting Child Pornography Online: 10 Key Questions
Alisdair Gillespie

www.era.int/elearning



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The content of this programme reflects only ERA's view and the Commission is not responsible for any use that may be made of the information it contains.

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www.era.int/?129229&en

Application

COMPUTER FORENSICS IN LEGAL PROCEEDINGS

Prague, 9-10 March 2020 / Event number: 320DT01/eg

Apply online for
“Computer Forensics in
Legal Proceedings”:

www.era.int/?129229&en

Venue

Czech Bar Association
Palác Dunaj, Národní 10, entry
from Voršilská street 14
110 00, Prague 1

Language

English

Contact Person

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Terms and conditions of participation

Selection

1. Participation is only open to judges, prosecutors and lawyers in private practice from eligible EU Member States.

The number of places available is limited (30 places). Participation will be subject to a selection procedure. Selection will be first come first served and according to nationality. Spanish applicants who work for the prosecution service (CEJ) must apply for this event through CEJ.

2. Applications should be submitted before **12 January 2020**.
3. A response will be sent to every applicant after this deadline. **We advise you not to book any travel or hotel before you receive our confirmation.**

Registration Fee

4. €250 including documentation, lunches and dinner.

Travel expenses

5. Travel costs up to €350 can be reimbursed by ERA upon receipt of the original receipts, tickets, boarding passes, invoices after the seminar. Participants are asked to book their own travel and accommodation. These rules do not apply to representatives of EU Institutions and Agencies who are supposed to cover their own travel and accommodation. Participants are advised of the obligation to use the most cost-efficient mode of transport available.

Accommodation

6. Maximum 2 single occupancy hotel nights (up to 145 EUR/night) can be reimbursed by ERA, only upon receipt of the original hotel invoice.

Other services

7. Two lunches, beverages consumed during the event and the seminar documents are offered by ERA. One joint conference dinner is also included.

Participation

8. Participation at the whole conference is required and your presence will be recorded.
9. A list of participants including each participant's address will be made available to all participants unless the ERA receives written objection from the participant no later than one week prior to the beginning of the event.
10. The participant's address and other relevant information will be stored in ERA's database in order to provide information about future ERA events, publications and/or other developments in the participant's area of interest unless the participant indicates that he or she does not wish ERA to do so.
11. A certificate of attendance will be distributed at the end of the conference.