



# IMPACT OF NEW TECHNOLOGIES AND COMPUTER FORENSICS IN CRIMINAL JUSTICE

Belgrade, 18-19 September 2023



EXCELLENCE IN  
EUROPEAN **LAW**<sup>7</sup>

## Speakers and chairs

**Steven David Brown**, International Cybercrime Consultant, Vienna

**Laviero Buono**, Head of Section for European Criminal Law, ERA, Trier

**Maja Prelić-Simović**, Deputy Director, Serbian Judicial Academy, Belgrade

**David Silva Ramalho**, Defence Lawyer, Morais Leitão, Galvão Teles, Soares da Silva & Associados; Lecturer, Faculty of Law, University of Lisbon

**George Zlati**, Attorney, Cluj Bar; PhD on Cybercrime at Babeş Bolyai University, Cluj-Napoca

## Key topics

- Internet fundamentals
- Presenting internet searches in court
- E-evidence
- Open-Source Tools (OSINT)
- Crypto currencies
- Artificial Intelligence (AI) in criminal justice

Languages  
English and Serbian  
*simultaneous interpretation*

Event number  
323DV158

Organisers  
The Academy of European Law – ERA (Laviero Buono) in cooperation with the Serbian Judicial Academy



## Monday, 18 September 2023

12:00 Arrival and registration of participants (including light lunch)

12:30 **Welcome and introduction to the programme**  
*Maja Prelić-Simović & Laviero Buono*

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### **PART I: TECHNICAL ISSUES AND BASIC UNDERSTANDING OF THE INTERNET ARCHITECTURE AND COMPUTER FORENSICS**

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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*

12:35 **Painting the cyberscape: a portrait in bits**

- Different shades of Internet
- Essential Protocols
- IP Addresses
- Browsers
- URLs and Domains
- Anonymisers
- Logs
- Geolocation

*Steven David Brown*

14:00 Discussion

14:15 Break

14:45 **Computer Forensics**

- Principles of computer forensics
- Searching and collecting evidence
- Dead box and live box scenario
- Investigating Web 2.0 and capturing evidence online: social networking, blogs and online services

*David Silva Ramalho*

16:15 Discussion

16:30 End of Day I

## Tuesday, 19 September 2023

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### **PART II: OPEN SOURCE INTEL TOOLS AND E-EVIDENCE**

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*Chair: Laviero Buono*

09:30 **Open sourcery: online magic for investigators**

- Optimised search practices
- Cyber camouflage
- Image data
- Reverse image searches
- Email message sources

### **Objective**

This seminar aims to share advanced knowledge and to exchange experience and best practice between judges, prosecutors and lawyers in private practice who deal with criminal proceedings involving computer forensics, e-evidence, open-source intelligence tools, crypto currencies and artificial intelligence.

### **Who should attend?**

Judges, prosecutors and lawyers in private practice from Serbia (tailor-made event).

### **Venue**

Serbian Judicial Academy  
Institute of Criminological and Sociological Research- Gračanicka No.18 Belgrade

### **CPD**

ERA's programmes meet the standard requirements for recognition as Continuing Professional Development (CPD). Participation in the full programme of this event corresponds to **8 CPD hours**.

A certificate of participation for CPD purposes with indication of the number of training hours completed will be issued on request. CPD certificates must be requested at the latest 14 days after the event.

### **Save the date (ERA events)**

#### **Essentials of Cryptocurrency Technologies**

Trier & Online, 19-20 October 2023

#### **Ensuring Market Integrity and Preventing Market Abuse**

Trier & Online, 23-24 October 2023

#### **Annual Conference in EU Criminal Justice**

Lisbon, 9-10 November 2024

#### **Annual Conference on AML and Financial Compliance in the EU 2023**

Trier & Online, 23-24 November 2023

- Useful tools and resources
  - A case study
- Steven David Brown*

11:00 Discussion

11:15 Break

11:30 **E-evidence**

- Building up a case from the investigation stage to trial: challenges, opportunities and admissibility tests
  - Trial considerations: the defense's role in challenging digital evidence
  - Judicial reasoning and e-evidence
  - Case study
- David Silva Ramalho*

13:00 Discussion

13:15 Lunch

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### **PART III: CRYPTOCURRENCIES AND ARTIFICIAL INTELLIGENCE IN CRIMINAL JUSTICE**

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*Chair: Laviero Buono*

14:15 **Criminal law & crypto: the fundamentals**

- Digital wallets taxonomy
- Virtual currencies and other crypto assets
- From seed phrases to public addresses
- On-chain vs. off-chain transactions
- Relevant modus operandi

*George Zlati*

15:30 Discussion

15:45 Break

16:00 **Artificial Intelligence (AI) in criminal law: present and future controversies**

- Unmixing crypto transactions
- Gathering of digital evidence
- Entrapment as a use case
- AI as an expert

*George Zlati*

17:00 Discussion

17:15 End of the seminar



# Short bio of the experts

## Steven David Brown

Steven David Brown is a specialist in criminal justice focusing on integrity, criminal intelligence, electronic evidence and computer-based crime. He qualified as a Barrister, but after a brief period of practice at the criminal bar, joined London's Metropolitan Police as an operational police officer. His law enforcement service includes the National Criminal Intelligence Service (a forerunner to the National Crime Agency) and EUROPOL. He is also a certified Open Source Intelligence Professional, a Certified Fraud Examiner and holds a graduate diploma in financial crime prevention. His international work has taken him to four continents including as the Senior Law Enforcement Advisor for UNODC in Central Asia, as the law enforcement policy advisor to Armenia for the EU Advisory Group and as project manager for the Council of Europe's Global Action on Cybercrime.

## David Silva Ramalho

David Silva Ramalho is a criminal lawyer at Morais Leitão, Galvão Teles, Soares da Silva & Associados, with extensive experience in cases involving cybercrime and digital evidence. He is also an Assistant Teacher at the University of Lisbon's Faculty of Law, where he teaches Criminal Law and Criminal Procedure. David is the author of several articles on cybercrime and digital evidence and is a regular speaker on national and international conferences on these topics.

## George Zlati

George M.R. Zlati is a criminal defence lawyer based in Romania, with over 10 years of experience in cybercrime cases. Additionally, he holds an academic background as an associate professor at the Faculty of Law and Social Sciences at the '1 Decembrie 1918' University in Alba Iulia, Romania.

He earned his PhD in Law from Babeş-Bolyai University (Romania) with a thesis titled 'Illegal Access to a Computer System, Computer Fraud, and Computer-related Forgery.' George has published numerous articles on various aspects of cybercrime, including the relationship between criminal law and blockchain technology, computer search and seizure, data retention, and more. His works, including the first Treatise on Cybercrime (Volume 1) published in Romania in 2020, have been cited in several rulings of the High Court of Cassation and Justice, particularly on contentious issues like the relationship between computer fraud and traditional fraud, the concept of access to an information system, identity theft via the creation of fake social media accounts, and others.

In 2022, George served as a Eurojust expert in the Euromed Justice Programme project, contributing to the update of the 'Legal and Gaps Analysis Cybercrime.'