



Criminal Intelligence –  
New Trends in Analysis Conference

# **CINTiA 2022**

20th-21st September 2022  
Institute of Computer Science  
AGH University of Science and Technology, Krakow

## **Summary Report**

# Table of Contents

1. Summary&Conclusions
2. Agenda
  - 2.1 Presentations&Speakers
  - 2.2 Workshops
  - 2.3 Exhibition

The first edition of the analytical conference **“Criminal Intelligence – New Trends in Analysis Conference” (CINTiA2022)** was held on 20-21 of September in Institute of Computer Science AGH University of Science and Technology in Krakow.

**Honorary Patrons of the conference were the Commander-in-Chief of the Polish Police and the Government Centre for Security.**

**The main aim** of the conference was to enable knowledge transfer between representatives of LEAs, providers of tools for conducting criminal analysis, and representatives of the world of science.

## Organisers



## Event partner



## Honorary patronage



**+200**  
**PARTICIPANTS**

**23**  
**PRESENTATIONS**

**30**  
**SPEAKERS**

**2**  
**WORKSHOPS**

**7**  
**EXHIBITORS**

**14**  
**COMPANIES\***



**\*To know more  
about companies  
visit Exhibitors  
Catalogue (click  
the image)**



After collecting feedback from the participants of the CINTiA2022 conference, we can highlight the conference's **positive aspects** as follows:

1. There was a good variety of presentations that were both interesting and valuable
2. Excellent networking opportunity
3. Satisfying location with needed facilities within the AGH premises
4. The hope that such an event be held periodically

The **needs** for the following improvements have been identified:

1. More time per speaker and a couple more and longer breaks for networking and visiting vendor stands would have been helpful
2. A large room that held vendors and attendees in between seminars
3. More case studies and practical workshops
4. A longer event of 2.5 days would be preferable

**Taking the above under consideration the organizers of the CINTiA2022 conference plan the next events periodically while extend the topic to include technologies for combating various types of crime.**

According to the **AGENDA** the conference was opening by organisers: **Arkadiusz Letkiewicz** (Project Implementation Coordinator, Polish Platform for Homeland Security) and **Marek Kisiel-Dorohinicki** (Director of the AGH Institute of Computer Science).

After welcoming participants had the opportunity to listen **Prof. Oleksandr Korystin** (Ukraine's Ministry of Internal Affairs' Research Institute) and **Valeri Tsiupa** (CEO of the International Cybernetics Academy) to an online speech about new challenges of cyber security and crime analysis in Ukraine.

The topic was continued by **Jarosław Pudzianowski** (Chief Expert of the Polish Government Centre for Security), expanded on the topic, mentioning cyber security of critical services in light of the war in Ukraine and legal changes in the area of critical infrastructure.

The keynote speech was delivered by **Radosław Ostoja-Domaradzki**, International Director of the International Association of Law Enforcement Intelligence Analysts (IALEIA).



During the two days of the conference, speakers from many countries presented their solutions and experience in the field of criminal analysis and research. Below is the list of speeches and presenters in both panels - practical and scientific.

Scientific presentations will be extensively elaborated in a monograph to be published by AGH University of Science and Technology. Read more information about CINTIA 2022 – Scientific Committee [here](#).

## Day 1 - 20th September



### FROM FLOPPY DISK TO DATA LAB - CHANGES IN COMPUTER FORENSIC SCIENCE

*Fryderyk Darnowski, Central Anticorruption Bureau*



**Scott Johnston**  
Solutions Architecture  
Chainalysis ApS

Scott manages Public Sector Operations in EMEA, where he works with users in law enforcement and intelligence. Scott served with HM Royal Marines and spent 18 years in the Metropolitan Police investigating all aspects of Serious Organised Crime. He has participated in several communities of interest and workshops throughout Europe covering Crypto currency within the economic crime landscape.

### EXPLOITING BLOCKCHAIN INTELLIGENCE TO IDENTIFY AND DISRUPT ORGANISED CRIME – A PURSUE, PREVENT AND PROTECT STRATEGY

Chainalysis is the blockchain data platform. Chainalysis provides data, software, services, and research to government agencies, exchanges, financial institutions, and insurance and cybersecurity companies in over 70 countries. Chainalysis Investigations Solutions are trusted globally by government agencies and private institutions to trace and understand blockchain activity. It powers investigators and analysts with real-time cryptocurrency intelligence, allowing them to map addresses to named services, detect illicit activity as it happens, and build cases.



### THREE DIMENSIONS OF CRIMINAL ANALYSIS OF THE FUTURE

*Krzysztof Wojciechowski, AGH University of Science and Technology*



**Dirk Labudde**

Forensic Science Investigation Lab  
University of Applied Sciences

German computer scientist and forensic scientist at Mittweida University of Applied Sciences. He founded Germany's first bachelor's degree programme in "General and Digital Forensics" and was appointed professor in the same year. Dirk has been a head of the Fraunhofer Academy's Cybersecurity Learning Lab. He heads the FoSIL research group. Prof. Labudde is active as an expert witness in court and as an advisor to the police and public prosecutor's office.

## SEMANTIC ANALYSIS OF BIG COMMUNICATION DATA

With MoNA, they present a platform for analysing mobile communication developed at Mittweida University of Applied Sciences in collaboration with various LEAs. MoNA integrates highly specialised AI services to support deep semantic analysis of communications across different channels and involving different modalities, such as video, images, audio, etc. The aim is to reduce the investigator's effort in searching for evidential information in networks. The core services such as Topic Modeling, Term Tree (Contextual Pattern Matcher), Author Profiling or Search Term Recommender are completely unsupervised, i.e. the analysis is based solely on data and no additional training is required.



**Charles Brown**

Blackdot Solutions Ltd

Charles has over a decade's experience helping public and private sector organisations to manage a broad range of threats and risks. He has conducted complex investigations and intelligence assignments for some of the world's largest banks, law firms and corporations, and advised governments on a variety of critical security issues.

## KEY TECHNOLOGIES AND TRENDS IN OPEN SOURCE INTELLIGENCE INVESTIGATIONS

Blackdot Solutions is the creator of Videris, a powerful open source intelligence solution. It is a comprehensive platform for collecting, analysing and visualising open source intelligence. It gives investigators and analysts increased security, efficiency and insight in their work. Videris ensures that investigations remain secure and untraceable, whatever sources the user needs to look at. It can be deployed on premise or in the cloud, depending on your requirements. Videris helps analysts and investigators to map social and corporate networks in seconds, find negative media quickly, instantly translate results and more.



**Gilles Andre**

Idemia Poland Sp. z o.o.

Pioneered Big Data processing by releasing the first ETL platform back in 1997. As a serial entrepreneur in the field of Data and Artificial intelligence, he kept innovating through various initiatives, aiming to converge heterogeneous information into a unified knowledge model. Gilles is currently the Founder and CEO of OPPSCIENCE, a French company that published the first Intelligence Analysis Management platform.

## HOLISTIC APPROACH TO DATA ANALYSIS

IDEMIA provides unique technologies, underpinned by long-standing expertise in biometrics, cryptography, data analytics, systems and smart devices. Idemia presented 2 products:

1. Augmented Vision: Video Analytics platform that combines surveillance, intelligence and investigation,
2. SPECTRA: End-to-end Big Data analysis solution to maximize operational efficiency in law enforcement and intelligence agencies including text analysis.



**Damien Martinez**  
Facepoint

Founder and CEO of FACEPOINT. Damien served as the Risk Director for continental Europe at Thomson Reuters. Over the last 15 years, Damien has specialized in terrorism financing prevention. He started his expertise as an investigator for the Sept 11 Class action on Al-Qaeda financing. He worked as an expert for the Swiss Federal Police and as a specialized compliance officer for Credit Suisse headquarters in Zurich. Damien is the founding partner of the Center for Analysis on Terrorism, a European leading think tank in Paris.

## BIOMETRIC SCREENING - A UNIQUE, INNOVATIVE WAY TO IDENTIFY PERSONS OF INTEREST

FACEPOINT is a French data research company specialized in picture intelligence on persons of interest in relation with clearly defined research areas around national security issues, including terrorism, political violence, international sanctions, and organized crime. By using biometrics and AI, biometric screening is the perfect alternative name-based screening consisting of extending the application of biometrics from identity verification to watchlist screening. This new biometric risk screening model offers greater precision and speed, it supersedes conventional alphanumeric matching using facial recognition to disambiguate potential matches, reduce false alert rates, and identify emerging threats.



## PROCESSING AND ANALYSIS OF MASS DATA IN RELATION TO ECONOMIC CRIMES

*Jacek Dajda, Kamil Piętak, AGH University of Science and Technology*



## USING GRAPH ANALYTICS TO IDENTIFY INTERNATIONAL CRIMINAL GROUPS - AN EXAMPLE OF AN INVESTIGATION USING DATA FROM SEVERAL COUNTRIES

*Robert Jędrzejczak, DataWalk SA*

Polish company which has built a product - a graph analytics software platform - based on its own technology to solve global security problems. The DataWalk platform connects billions of objects from multiple sources, finding applications in the field of forensic analytics in the public and financial sectors, including fighting crime (US agencies), ensuring international security (UN), identifying fraud and irregularities (central administration, large corporations, financial institutions, including banks and insurers) or anti-money laundering (regulators and financial institutions).



**Stephane Godde**  
Head of EMEA Fraud & Security Intelligence in Government & Non-financial services at SAS Institute

Former Belgium law enforcement officer who served as a Judicial Commissioner in the Federal Computer Crime unit and in the international Fraud & Corruption department within the Federal Police. Before he stepped into data-analytics, he has worked as an IT security officer in a bank and as consultant in KPMG. He has been head of the Fraud & Security department for Government, Retail, Telco & CMPI in EMEA, as well as project leader in the Public sub-sector area.



**Antonio Navarro**  
Senior Business Solution Manager, EMEA CXP Fraud & Security Intelligence Practice, SAS Institute

Financial crimes specialist with more than 10 years of experience working with public sector organisations in the Fraud & Security Intelligence landscape. For the last 4 years, he has been working across EMEA tailoring first-class analytical solutions to customer business processes and designing short- and medium-term implementation strategies that guarantee the value provided by the analytical tools through a wide variety of public sector organisations.

## HOW TO BUILD A MODERN INFORMATION FUSION CENTER FOR LAW ENFORCEMENT AGENCIES, BASED ON SAS ADVANCED ANALYTICS?

*Antonio Navarro, Stephane Godde, SAS Institute Sp. z o.o*

SAS® Viya® is an analytical and AI technology platform which is able to manage the whole analytical lifecycle. It enables organizations to gather data from a variety of sources, build reports and analytical models, deploy the models and make data-driven decisions and investigations. It is used by multiple law enforcement and public security agencies around the world in order to make better predictions, investigations and operational decisions.



# Day 2 - 21st September



**CENTRE OF SECURITY TECHNOLOGIES AT AGH UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
*Krzysztof Krassowski, AGH University of Science and Technology*



**PRESENTATION OF I-LEAD PROJECT RESULTS**  
*Marek Wierzbicki, Polish Platform for Homeland Security*





**Sławomir Jakubiak**  
Esri Poland  
Department of the Central Administration and Security

Retired Colonel in positions related to spatial analysis and imagery reconnaissance. He completed specialized courses at the European Union Satellite Center and the NATO School in Oberammergau. He established the Geospatial Reconnaissance Headquarters and headed the Geospatial Reconnaissance Service in the Polish Armed Forces for 5 years. He was a consultant to the Government Security Center in the construction of the GIS system for COVID-19 warfare.



**Maciej Piaskowski**  
Esri Poland,  
Technical Sales Support Team

SGGW graduate. He has been involved in geographic information systems (GIS) for 15 years, with more than 10 years at Esri Poland. Maciej currently heads the Technical Sales Support Team. He specializes in analytical and information sharing solutions for organizations.

## GEOGRAPHIC INFORMATION SYSTEMS IN CRIMINAL ANALYSIS

The Esri Polska was established in 1995 and is the only authorized Polish distributor of Esri Inc. software - a world leader in developing geographic information systems (GIS) software and Envi solutions for image data processing and analysis by Harris Geospatial Solutions, Inc.

ArcGIS is a scalable platform for collecting, processing, managing and analyzing data. The system integrates many types of data, allows you to analyze spatial locations and organizes information layers for visualization using maps and 3D scenes. ENVI is a modular solution for processing raster data obtained from various sensors, both optical and radar, at many levels.





**Ohad Gross**

Business Development Director,  
International, Cellebrite

Ohad is responsible for developing and promoting Cellebrite's DI story and nurturing business opportunities. Ohad brings more than 20 years of experience in global business development positions. Prior to joining Cellebrite in December 2021, Ohad had a long tenure at Intel both in Israel and in the USA, as business development executive.

### INVESTIGATION IN THE DIGITAL WORLD – TECHNOLOGIES AND CAPABILITIES FOR LAW ENFORCEMENT

Cellebrite is the global leader in partnering with public and private organizations to transform how they manage Digital Intelligence in investigations to protect and save lives, accelerate justice and ensure data privacy.

Cellebrite Pathfinder enables investigators, analysts, and prosecutors to collaborate using a comprehensive, scalable AI solution to surface relevant leads faster, and discover connections that might be missed by the human eye.



### PREDICTIVE AND PREVENTIVE POLICING BY USING 3D GEOSPATIAL TECHNOLOGY AND SOFTWARE

*Krystian Wojciechowski, Hexagon Geosystems*

Hexagon is a global leader in sensor, software, and autonomous technologies. Our smart digital reality solutions allow Public Safety and Forensic professionals worldwide to capture and visualise in 3D environments and information as a virtual copy of the real world – The Forensic Digital Twin. Technologies solutions are transforming the way police officers, crime/crash/fire scene investigators, customs and border patrol officers, security professionals and beyond, manage pre-planning, forensic mapping, evidence gathering, incident response and scene investigation and reconstruction.





Aleksander Goszczycki is an expert in the area of cyber security and business approach to IT. He has more than 20 years of experience in securing and protecting complex, heterogeneous IT solutions in large organizations. During his career, he has managed projects in many government organizations and companies critical to the country's security. Aleksander Goszczycki works as the Managing Director at MATIC. The team he leads is dedicated to improving the security of state institutions in cyberspace and implementing available technologies to protect critical infrastructure and improve public safety.

## mA2, A TOOL TO FIGHT CRIME FINANCE

*Aleksander Goszczycki, Piotr Gocał, Matic SA*

Matic SA has been operating on the Polish market since 1990. The company's team has extensive knowledge and experience confirmed by numerous authorizations and certificates from leading computer industry producers. mA2 is a modern software dedicated to criminal analysis in the field of economic and criminal offenses. Its task is to quickly acquire data and present them graphically. A unique feature of the software is the automatic processing of bank accounts, standardization to a uniform data format and their presentation using the form of graphs. In addition, the system has automatic search mechanisms, removing duplicate links, converting transaction currencies and merging vertices. The software also enables graphical visualization of a very large amount of data (over a million data records, 100,000 vertices) in a modern visualization form.



**David Williams**  
Microsoft, Director, Business Programs Public Safety & Justice

Key member of Microsoft's worldwide public sector, focused on public safety and justice solutions for investigations and analysis. Passionate about public safety and the application of technology to augment and assist the great people protecting citizens globally. Dave also retired as a Major from the United States Army where he served for 24 years as an enlisted soldier, noncommissioned officer and commissioned officer in the Infantry, Signal and Civil Affairs branches.

## INVESTIGATION IN THE DIGITAL WORLD – TECHNOLOGIES AND CAPABILITIES FOR LAW ENFORCEMENT

Microsoft enables digital transformation for the era of an intelligent cloud and an intelligent edge. Its mission is to empower every person and every organization on the planet to achieve more. Microsoft provides a platform of solutions that are the foundation for others to develop – a better life for citizens, the transformation of Polish companies, schools, offices, and the expansion of Polish IT companies – Microsoft Partners – who create their own solutions based on Microsoft technology.





**Jesper Anderson**  
XCI A/S

Jesper is the CCO and co-founder of XCI A/S, a privately owned Danish company, focusing on creating the best solutions in the world to fight cyber crime. Jesper has more than 20 years' experience in the business from various positions.

### EVERY PIECE OF DATA TELLS A STORY

XCI was founded because people saw a need to take a different approach to understand and analyze cyber crime adversaries. With automation and machine learning technology at the heart, experienced team develops products that help organizations investigate cyber crime. They develop and deliver intuitive cutting edge products that are easy to install and use to law enforcement and intelligence agencies for extracting maximum key intelligence from communications data a comprehensive picture and profile of online targets.



### EVOLVING BATTLEFIELD AND EVOLVING AI

Kamil Faber, Bartłomiej Śnieżyński, AGH University of Science and Technology

# METIS

### AUGMENTED PREDICTIVE INTELLIGENCE FOR HLS AGENCIES

*Gal Nir, Metis Intelligence*

The METIS Augmented Predictive Intelligence Platform enables agencies around the world to continuously and autonomously collect, categorize, and extrapolate meaning from all their data, including SIGINT, IMINT, ADINT, streaming video and audio, open-source and social media, biometrics, internal & external databases and other sources. The METIS Platform finds and tracks what human analysts cannot, providing agencies valuable and actionable intelligence they can act on to achieve their objectives.



## WORKSHOPS

During the second day of the conference, **workshops** were held where **Forensic Science Investigation Lab (FoSiL) from University of Applied Sciences** and **Cellebrite Ltd** presented their solutions.

1. **Michael Spranger** (FoSiL) demonstrated highly practice solution using Mobile Network Analyzer, which was of interest to the audience and practitioners.
2. Cellebrite's workshop presented by **Mats Isakson**, focused on presenting a solution that can surface evidence faster and conduct investigations more effectively with Cellebrite's Pathfinder.



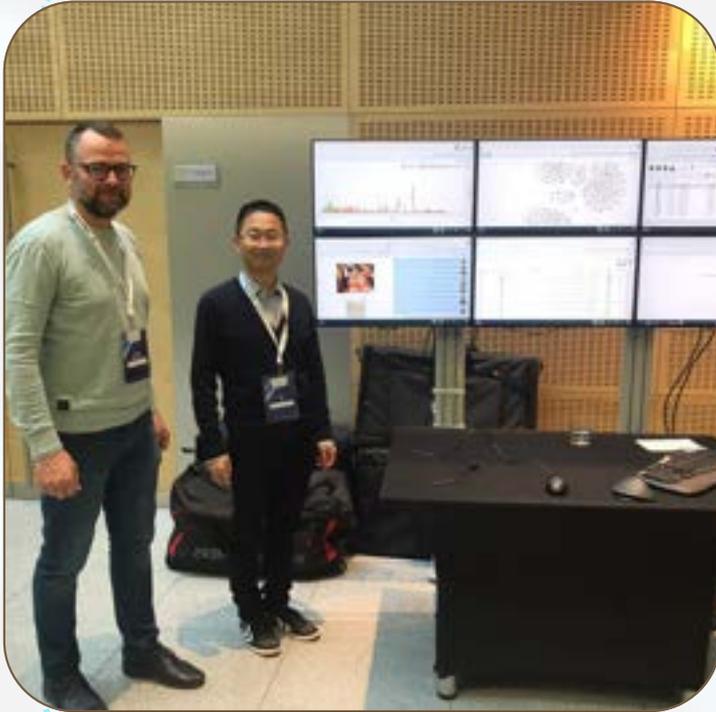
## EXHIBITION

Some providers of new technologies in the field of crime analysis shared their solutions at exhibition stands that accompanied the conference. Attendees could get to know the innovations in this area. It was also a good opportunity to discussion and exchange knowledge.

In the exhibition participated 6 companies and 1 university:

1. Blackdot Solutions Ltd
2. Chainalysis Aps
3. Facepoint
4. Forensic Science Investigation Lab (FoSIL), University of Applied Sciences, Mittweida
5. Hexagon Geosystems
6. Idemia Poland Sp. z o.o.
7. Matic SA







[ppbw.pl](http://ppbw.pl)



[/polishplatform](https://twitter.com/polishplatform)



[/company/polska-platforma-bezpieczenstwa-wewnetrznego](https://www.linkedin.com/company/polska-platforma-bezpieczenstwa-wewnetrznego)



[ppbw.pl/newsletter](http://ppbw.pl/newsletter)



ul. Slowackiego 17/11, 60-822 Poznan  
phone: 61 66302 21  
e-mail: [sekretariat@ppbw.pl](mailto:sekretariat@ppbw.pl)