



UNIVERSITÀ
CATTOLICA
del Sacro Cuore

transcrime
Joint Research Centre on Transnational Crime

TNO innovation
for life

THE BUSINESS MODEL OF CYBERCRIME

Summer school

Milan, 2 - 5 July 2018

2nd Edition

PARTNERS

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TRANSCRIME

Transcrime is the Joint research center of the Università Cattolica del Sacro Cuore, the Alma Mater Studiorum Università di Bologna and the Università degli Studi di Perugia. Transcrime employs an integrated approach and performs applied research to:

- Analysis of criminal phenomena;
- Evaluation of crime prevention policies;
- Analysis and identification of criminogenic opportunities in legislation (crime proofing analysis);
- Development of risk assessment models and crime prevention strategies for public and private actors.

Transcrime is a key supporting body of the education activities provided by the Università Cattolica del Sacro Cuore di Milano. In particular, the center coordinates: the Master's degree in Security Policy (Poli.Si) within the framework of the Master's program in Political and Social Sciences and the International Ph.D. in Criminology.

www.transcrime.it

TNO

TNO, the Netherlands Organisation for applied scientific research, was founded by law in 1932 to enable business and government to apply knowledge. It is an independent research organisation focused on transitions or changes in five social themes: industry, healthy living, defence and security, and energy.

TNO Cyber Security and Resilience unit strives to come up with game changing solutions that focus on cybercrime prevention, detection and recovery. It has established a special Cyber Security Lab, which provides technical facilities to promising cyber security innovation projects. In the Cyber Security Lab TNO take up current challenges in cyber security using a combined approach that encompasses people, processes, organization and control. TNO research is focused on detection of cyber security incidents, improvement of organizations' cyber resilience and threat intelligence.

www.tno.nl

INTRODUCTION

Over the last years, cyber threats have taken place with the intention of generating financial profits for the cybercriminals involved. This business model of cybercrime is based on a value chain of cybercrime components, from malware development or distribution to cash-out solutions. Offers of these components on anonymous online markets, can be seen as a form of cybercrime-as-a-service. The proliferation of these services potentially allows 'customers' to organise online crime, like financial fraud, regardless of their skills and technical knowledge. Illicit business on the dark net comprises of a variety of marketplaces, where the tools necessary to launch cyberattacks are sold and bought. This growing "as-a-service" market

attracts not only wannabe hackers, but also traditional criminals. Anonymizing peer-to-peer networks and cryptocurrencies have become the enabling tools of this new business model, as the markets where demand and supply in cybercrime components meet, build on the TOR-protocol for hosting their anonymous markets and lean on cryptocurrencies to support an alternative payment channel. Based on its characteristics of non-regulation and its potential anonymity, the bitcoin is the currency of choice for cybercriminals and dark net sellers.

The current summer school will aim to provide students and young professionals with understanding of the business model of cybercrime and the online criminal finances, in

particular. It will focus on the actors behind cybercrime, what types of business models they have and how business transactions take place on the darknet. The summer school will provide the participants an opportunity to meet and become a part of like-minded researchers of cyberspace, grow their network and identify opportunities for collaboration.

The summer school will be held in English.



COURSE LEADERS

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→ **PROF. ERNESTO SAVONA**

Director of Transcrime and Professor of Criminology at the Università Cattolica del Sacro Cuore
Editor in Chief of the European Journal on Criminal Policy and Research

→ **ROLF VAN WEGBERG**

Research scientist at TNO, involved in research on financial cybercrime and underground markets.
Ph.D. Candidate at TU Delft

→ **THIJMEN VERBURGH**

Cybercrime researcher at TNO

TARGET GROUP



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The Summer School would like to attract students and young professionals from all over Europe with a special focus on Italian universities. Because of the multidisciplinary of the topic students (Bachelor's, Master's, Ph.D.) from the following fields will be welcome: Criminology, Sociology, Law, Information Security, Computer Science. Young professionals involved in anti-money laundering, crime prevention and cybersecurity will also be welcomed.

DAILY PROGRAMME



2018	10.00 - 10.15	10.15 - 10.45	10.45 - 11.30	11.30 - 11.45	11.45 - 13.30	13.30 - 14.30	14.30 - 16.00	16.00 - 16.15	16.15 - 17.45	17.45 - 18.00
<u>2 JULY</u> Experiencing Cybercrime	Welcome by Prof. Ernesto Savona	Introduction to the summer school	Cybercrime: Types, Actors, Victims	Break	Cybercrime: Types, Actors, Victims	Lunch Break	Modelling Cyber-criminal Business	Break	Criminal Infiltration in the Legal Economy	Wrap up the day
<u>3 JULY</u> The Dark Side of the Web	Quiz of the day	Introduction on Dark Markets		Break	Introduction to TOR	Lunch Break	Cryptocurrencies: A first look at Bitcoin	Break	Cryptocurrencies: Transactions and Wallets	Wrap up the day
<u>4 JULY</u> GAME: Trading on Underground Markets	Quiz of the day	Trading on Dark Markets: Crimeware		Break	GAME: Trading on Underground Markets Level 1	Lunch Break	GAME: Trading on Underground Markets Level 1	Break	GAME: Trading on Underground Markets Level 2	Wrap up the day
<u>5 JULY</u> Breaking the Business Model of Cybercrime	Quiz of the day	Law Enforcement Experience		Break	Law Enforcement Experience	Lunch Break	Meeting the Cybersecurity Business	Break	Meeting the Cybersecurity Business	Wrap up the day + Aperitivo



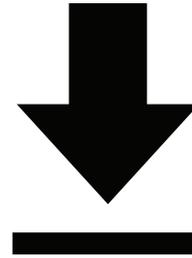
FEE INFOS

Participants will be asked to pay a registration fee of:

- Professionals and trainees:
427 EUR (VAT included)
- Bachelors, Post Graduate, PhD and Master students of:

Università Cattolica:
305 EUR (VAT included)
Others Universities:
305 EUR (VAT included)

The fee will cover the lectures, farewell aperitivo and course materials but participants must cover their travel and accommodation expenses.



**CLICK [HERE](#) TO DOWNLOAD
THE APPLICATION FORM**

For further information on the summer school and the application process you can contact Mariya Karayotova at:
cybercrime.summerschool@unicatt.it



APPLICATION

Participants wishing to apply should send the application form with their CV or resume attached by email to cybercrime.summerschool@unicatt.it.

Applications will be approved on a rolling basis. The admission office shall communicate their decision within few days by email.

Admitted students will have to fill in the registration online (the link will be communicated by mail) and pay the fee within 10 days from the admission notice through credit card (directly on the webpage) or through wire transfer to the following bank account:

Università Cattolica del Sacro Cuore
Banca Intesa Sanpaolo,
IBAN
IT07W0306903390211610000191,
specifying the full name of the participant and the title of the Summer School in the payment reference.

Postgraduate Education Research and Partnership Office:

Università Cattolica del Sacro Cuore
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20123 Milano
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