



3rd International Conference

**on Information Security and
Digital Forensics**

(ISDF2017)

**on Computing Technology and
Information Management**

(ICCTIM 2017)

www.isdf.gr

December 08-10 2017

**Metropolitan College
Thessaloniki, Greece**

ORGANISERS



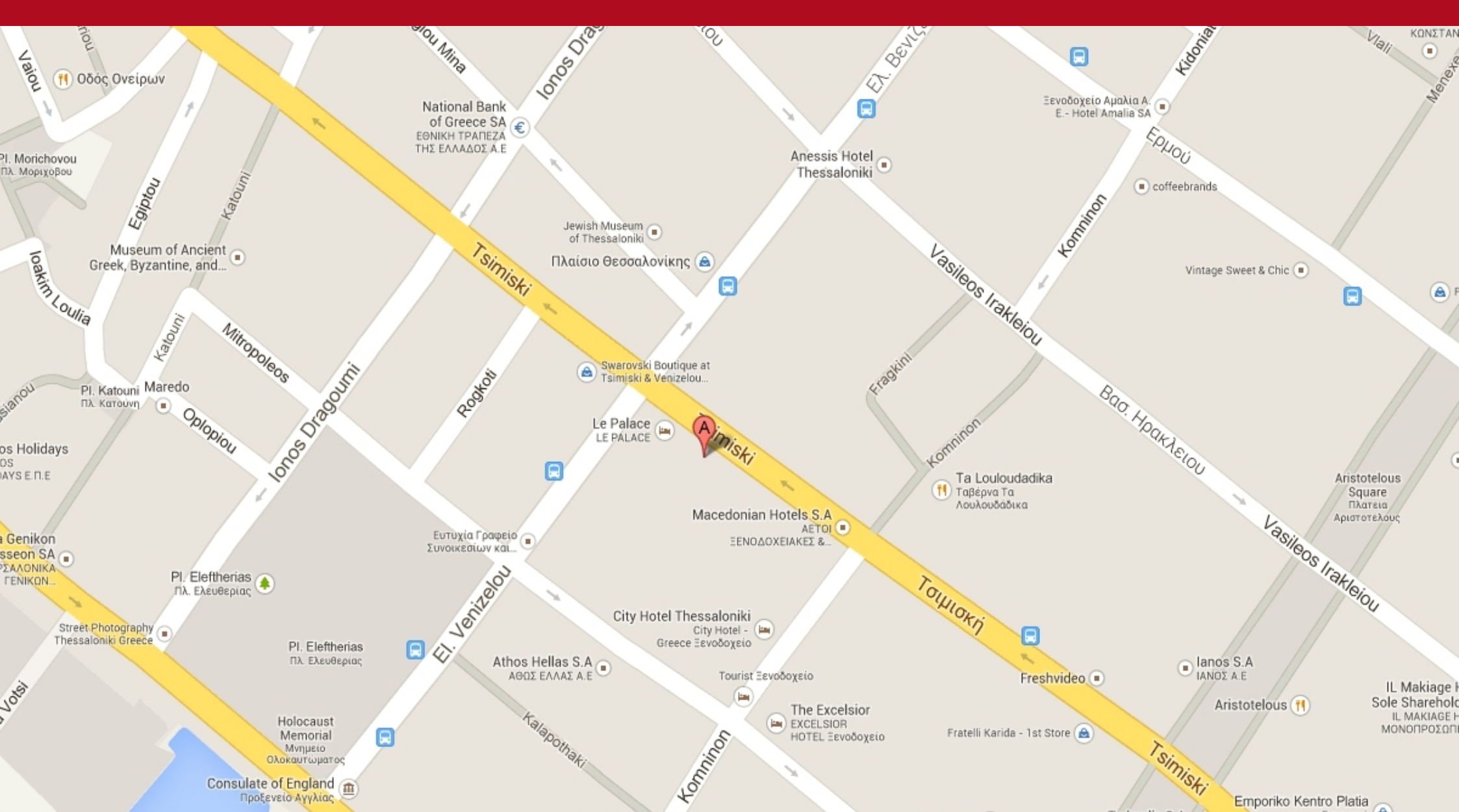
JOINT CONFERENCES PROGRAM

**The 3rd International Conference on Information Security
and Digital Forensics (ISDF2017)**

&

**The 3rd International Conference on Computing Technology
and Information Management (ICCTIM2017)**

Notes: The time of each presentation including questions is 20 minutes. Please adhere to it.



Metropolitan College / IIEK AKMH

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Host Country: Greece

Participating Countries: Botswana, Brazil, China, Czech Republic, France, Germany, Ghana, Greece, Italy, Iran, Japan, Republic of Korea

Malaysia, Slovakia, South Africa, Tunisia, UAE, United Kingdom



Message from the General Chair of ISDF 2017 & ICCTIM 2017

Speakers at ISDF 2017 and ICCTIM 2017 will address challenging and important aspects of interest to practitioners and researchers with a specific focus on the emerging trends and industry needs associated with Information Security, Digital Forensics and Information Technology.

The success of the submission, review and selection process would have not been possible without the full support of a strong international program committee that was expanded this year to include more research leaders who all worked extremely hard to evaluate the submitted papers and to provide extensive constructive feedback that has helped the authors to improve their research papers.

Participants will enjoy a condensed program which includes 21 papers of including two industry papers. In addition, participants will enjoy a rich social program that will allow them to take a wonderful break and socialize with their peers with the hope to establish strong social networks in the field of Information Security, Digital Forensics and Information Technology. The manuscripts reflect the evolving state of the art discoveries. Each contributor to ISDF 2017 and ICCTIM 2017 does indeed add fresh views and thoughts, challenges our beliefs, and encourages further exploration and innovation on our part. We are grateful to each participant for providing the opportunity to share their invaluable ideas.

With the hope that the organization will open even wider awareness of knowledge, we welcome you to Metropolitan College, in Thessaloniki, Greece where you will enjoy a wonderful program and encourage you to start working on your submission to the 2018 conferences.

Please do not hesitate to share with us your thoughts and feedback which will definitely help us preparing the best for ISDF 2018 and ICCTIM 2018.

Antonis Mouhtaropoulos,
Metropolitan College, Greece

General Chair, ISDF 2017 and ICCTIM 2017

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Program at a Glance

Friday, December 8, 2017	Room: "Alexander the Great Auditorium"
17:00 - 18:00 Registration	
18:00 - 18:15 Opening Ceremony	
18:15 - 19:15 Keynote Presentation: Dr. Ekaterina Pshehotskaya	
19:15 - 19:45 Dinner Break	
19:45 - 20:45 Keynote Presentation: Dr. Evangelia Vagena	

Saturday, December 9, 2017	Room: "Alexander the Great Auditorium"
09:00 - 09:30 Registration	
09:30 - 11:30 Session 1: Information Security and Digital Forensics I	
11:30 - 11:45 Coffee Break	
11:45 - 13:15 Session 2: Information Security and Digital Forensics II	
13:15 - 14:15 Lunch Break	
14:15 - 15:15 Session 3: Information and Data Management I	
15:15 - 15:45 Coffee Break	
15:45 - 17:00 Session 4: Information and Data Management II	
17:00 - 17:30 Closing Ceremony (Best Paper Award)	

Sunday, December 10, 2017
11:00 - 14:00 Local Walking Tour

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Detailed Program

Friday, December 8, 2017

Room: "Alexander the Great Auditorium"

17:00 - 18:00	Registration
18:00 - 18:15	Opening Ceremony
18:15 - 19:15	Keynote Presentation: Dr. Ekaterina Pshehotskaya, Yandex, Russia
	Presentation Title: Voice Technologies – Trends and Future Directions
19:15 - 19:45	Dinner Break
19:45 - 20:45	Keynote Presentation: Dr. Evangelia Vagenas, Hellenic Association of Data Protection and Privacy (HADPP, Greece)
	Presentation Title: Cybersecurity and Data Protection: Current evolutions in EU and in Greece

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Room: "Alexander the Great Auditorium"

9:00 - 9:30 Registration

9:30 - 11:30 **Session 1:** Information Security and Digital Forensics I **Session Chair: Sotirios Pouros**

- The Strategy of Brazilian Government to Improve Information Security Risk Management and Cyber Security in Brazilian Public Sector (Anderson Araújo, Loriza Melo, Luiz Henrique Andrade, Jansen Fonseca, José Ney Lima, Juliana Moreira, Rodrigo Maeda, Tássio Silva, Brazil)
- GPU Forensics: Recovering Artifacts From the GPUs Global Memory Using OpenCL (Yazeed Albabtain Baijian Yang, USA)
- Virtual Local Area Network (VLAN): Segmentation and Security (Abbas Mehdizadeh, Kevin Suinggi, Mojtaba Mohammadpoorb Harlina Harun, Malaysia & Iran)
- Education Method for Simultaneous Achievement of Safety and Security in the IoT Era (Nyambayar Davaadorj, Yuitaka Ota, Akihiro Tsuchiya and Ichiro Koshijima, Japan)
- Project of building Security in Zoological garden (Miroslav Budín, Czech Republic)

11:30 - 11:45 Coffee Break

11:45 - 13:15 **Session 2:** Information Security and Digital Forensics II **Session Chair: Antonis Mouhtaropoulos**

- Common Attributes of Security Breach Types (Jan Svoboda, Luděk Lukáš., Czech Republic)
- A Secure Method for the Global Medical Information in Cloud Storage based on the Encryption and Data Embedding (Mohammad V. Malakooti, Soheil Nezaket, Navid Hashemitaba, UAE)
- A Novel Semantic Framework for Cloud Service Ranking and Adoption (Richard Ikechukwu Otuka, Aloysius Adotey Edo, Ameer Al-Nemrat, UEL)
- A Cumulative Sum Technique for Network Cyber Intrusion Detection (Dimitris Sklavounos, George Paraskevopoulos, Aloysius Edo, Greece, UK)
- Message Hiding with Pseudo-Random Binary Sequence Utilization (Gabriel Bugár, Juraj Gazda, Dušan Levický, Slovakia)

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Room: "Alexander the Great Auditorium"

13:15 - 14:15 Lunch Break

14:15 - 15:15 Session 3: Information and Data Management I **Session Chair:** Ekaterina Pshehotskaya

- Text Classification Using Time Windows Applied to Stock Exchange (Pavel Netolický, Jonáš Petrovský, František Dařena, Jan Žižka, Czech Republic)
- Using Dense Subgraphs to Optimize Ego-centric Aggregate (Ali Ben Ammar, Tunisia)
- Determinants of success for information technology applied to patient flow (Smail Benzidia, Omar Bentahar, Meriam Karaa, France)

15:15 - 15:45 Coffee Break

15:45- 17:00 Session 4: Information and Data Management II **Session Chair:** Ekaterina Pshehotskaya

- Optimising the Innovation Capacity of Public Research Organisations – An Agent-Based Simulation Approach (Davy van Doren, Germany)
- The Agent-Based Model of The Dynamic Spectrum Access Networks with Network Switching Mechanism (Marcel Vološin and Jana Zausinova, Slovakia)
- Ontology-Based Data Mining Approach for Judo Technical Tactical Analysis (Ivo La Puma and Fernando Antonio de Castro Giorno, Brazil)

17:00 - 17:30 Closing Ceremony (Best Paper Award)

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METROPOLITAN
COLLEGE
CENTRE OF EXCELLENCE

Thessaloniki City Tour - 10th December 2017, 11:00 am

The tour will start in front of the college's premises (El.Venzelou 14 str.)

Thessaloniki's long history and troubled past are reflected in today's urban landscape as a kaleidoscope of colours and images of different ethnic groups, the cultural production of the communities that have lived in this major Balkan port through the centuries. On this tour the city's monuments become the reference points for understanding its different historical periods and introducing its ethnic communities of the past: Roman (Galerius Complex), Byzantine (examples of 4th-15th century churches listed as UNESCO World Heritage Sites), Ottoman (ex mosques, hamams, markets), Jewish (Yad Lezikaron Synagogue & Holocaust monument). The last stop in this overview of Thessaloniki's multicultural identity is the port, the focal point for the city's occupation history and population movement.

Dating back to the Hellenistic Times, Thessaloniki has always been the epicentre of great developments, processes and events, being a principal gateway from the Mediterranean to the Balkans and Central Europe. Founded in 315 B.C. on the site of earlier prehistoric settlements, the Hellenistic City developed an increasingly important role as part of the Kingdom of Macedonia and later on the first Roman Tetrarchy. The Byzantine and Ottoman Times were those that defined the city's character: Thessaloniki was the second city of the Byzantine Empire, playing a leading spiritual and artistic role in the Balkans, frequently taking the lead in the secular and theological thinking of the age. The monuments surviving from that period are representative of the Byzantine culture and art over the centuries and Thessaloniki is regarded as an open museum of Byzantine art. Furthermore, the city prospered as a trade and business centre of the Ottoman Empire, and was defined by the multi-ethnic populations that resided and set out in the area. Thessaloniki was historically known for its prominent communities of Jewish, Turks, Serbs, Bulgarians that lived together with the Greeks for centuries.

In the beginning of the 20th century, this canvas was enriched by the advent of Greek refugee populations from Asia Minor that settled here and diffused new cultures, ethics, customs, and tastes in society. That was also the period when Thessaloniki was incorporated in the Greek State (1912) and when later (1917), a destructive fire, swept away the historic city centre. The contemporary image of Thessaloniki is a natural consequence of that period: the newcomers became the media for the contemporary future and Thessaloniki prospered again in social, economical and cultural terms.

Thessaloniki through its history has been a melting pot of diverse cultures, religions and traditions and the city's multi-cultural heritage and profile was shaped by the work and deeds of emperors, saints, apostles, philosophers and thinkers, but also by its local residents, its refugees and immigrants. Thessaloniki, sometimes covered by the thick mist, sometimes stormed by the heady wind "Vardaris", yet always defined by its flairs and flavours, is nowadays an economic and cultural center, a vibrant focal point for the Balkans and a geographic landmark between the Eastern & Western Civilization.

Although penetrated by stories of joy and sorrow of the past, today the city enjoys a vibrant urban life, enriched by the largest student community in Greece, the increasing cultural production by numerous museums, organisations and smaller urban collectives and finally by the exquisite physical location that through time has enabled openness and inspiration.

Tourist Guide: Ms Evangelia Patsia, Licensed Tour Guide