



# SafeThessaloniki 2022

new technologies & civil protection

29.09 – 01.10

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# agenda



# agenda

29.09

## OPENING

Hall A

09:00 - 10:00 Registrations

10:00 – 10:45 Welcome Greetings (under update)

**Gerasimos Papadopoulos,**

*EU and UNESCO Scientific Collaborator, SafeGreece President*

**Georgios Tsakoumis,** *Technical Chamber of Greece, Section of Central Macedonia, President*

**Athanassios Ganas,** *Geological Society of Greece, President*

**Efthymios Lekkas,** *Earthquake Planning and Protection Organization of Greece, President*

**Konstantinos Zervas,** *City of Thessaloniki, Mayor*

**Apostolos Tzitzikostas,** *Region of Central Macedonia, Governor | Regional Development Fund of Central Macedonia, President*

**Stavros Kalafatis,** *Deputy Minister of the Interior*

**Christos Stylianides,** *Minister of Climate Crisis & Civil Protection*

### Keynote Lectures

10:45 – 11:15 **Gerasimos Papadopoulos,**

*EU and UNESCO Scientific Collaborator, SafeGreece President*

**Earthquakes and Culture**

11:15 – 11:45 **Efthymios Lekkas,**

*Earthquake Planning and Protection Organization of Greece, President*

**Seismic risk & vulnerability of structures and infrastructure. Special data from the Greek and international area**

11:45 – 12:30 Welcome Reception

## Sessions 1.1 & 1.2

29.09

### Hall A

12:30 - 13:00

**Invited Talk | Chair: Gerasimos Papadopoulos**

**Maria-Ana Vianna Baptista**

*ICG NEAMTWS, Chair | Universidade de Lisboa, Professor*

**An Overview of Tsunami Early Warning in the NEAM Region**

### Hall A

Chair:

**Assimina Kourou, Georgios Vergos**

13:00

Charalampos Stergiadis, Nikolaos Chinopoulos, **Christos Bimpitsos** | **Region of Central Macedonia, Greece**

*Civil Protection Innovative Actions and Technologies in the Region of Central Macedonia*

13:15

**George Mouzakis, Melachroini Daniilaki**

| **Region of Central Macedonia, Greece**

*The Environmental Impacts from Technological and Natech Disasters*

13:30

Stavros Kalogiannidis, Fotios Chatzitheodoridis, Stamatis Koutsas, **Ermelinda Toska**, Despoina Savvidou, Konstantinos Metaxas | **University of Western Macedonia, Greece**

*Disaster Resiliency Strategies and Local Government Units*

### Hall B

**Maria Manousaki, Ioannis Koukouvelas**

**Katerina-Navsika Katsetsiadou**, Ioanna Triantafyllou, Gerassimos A. Papadopoulos, Efthymios Lekkas, Stylianos Lozios, Emmanouel Vassilakis | **National & Kapodistrian University of Athens, Greece**

*Crowdsourcing Data Interpretation for the Response to the First Public Tsunami Alert in the Mediterranean Sea, after the October 30th 2020 Earthquake (Mw7.0), Samos, Greece*

**Christos Makris**, Yannis Androulidakis, Zisis Mallios, Vasilis Baltikas, Yannis Krestenitis | **Aristotle University of Thessaloniki, Greece**

*Towards an Operational Forecast Model for Coastal Inundation due to Storm Surges: Application During Ianos Mediane*

**Georgios Papavasileiou**, Theodore M. Giannaros | **National Observatory of Athens, Greece**

*Critical Fire Weather Patterns of Greece: Forecasting Fire Weather Conditions in the Medium-Range*

13:45 **Ermioni Gialiti** | Region of Crete, Greece  
*Autonomous Geospatial Infrastructures and their Contribution to the Local Vulnerability Estimation. Case Study: Comparing Wildfires of The Years 2021 – 2022 in Crete Island*

**Stefanos Stefanidis**, Georgia Kalantzi, Konstantinos Karystinakis, Vasileios Alexandridis, Athanasios Partoziis | Omikron S.A., Greece  
*Oflood: a Module of the LocalPro Platform for Dynamic Flash Flood Forecasting at Local Scale*

14:00 – 15:00 **Lunch Break**

## Sessions 1.3 & 1.4

29.09

### Hall A

Chair: **Dim. Menemenlis, Kon/nos Kokolakis**

15:00 **Michalis Sioutas**, Vassilis Lekidis, Constantinos Kokolakis | Technical Chamber of Greece/ Section of Central Macedonia, Greece  
*Climate Change and Severe Weather Events in Thessaloniki*

15:15 **Dimitris Pitilakis**, Chiara Amendola, | Aristotle University of Thessaloniki, Greece  
*Urban-Scale Seismic Risk Assessment: the Case of Thessaloniki*

15:30 Charalampos Stergiadis, **Anastasia Stergiadou**, Orfeas Psillas, Dimitrios Moutsopoulos | Aristotle University of Thessaloniki; Region of Central Macedonia Greece  
*Optimal Route Selection for Forest Fire Suppression (Case Study: Peri-Urban Forest of Thessaloniki, Greece)*

### Hall B

**Anastasia Triantafyllou, Vassilios Lekidis**

**Kyriazis Pitilakis**, Anastasia Kiratzi, Stelios Siskos, Stavroula Fotopoulou, Stella Karafagka, Christos Petridis, Maria Manakou, Kostas Liakakis, Konstantinos Kozalakakis, Kostas Ziozos, Dimitris Pitilakis, Christos Spandonidis, Fotis Giannopoulos | Aristotle University of Thessaloniki; Prisma Electronics SA Greece  
*SAFESCHOOLS: Earthquake Early Warning and Real-Time Seismic Risk Assessment System for School Buildings*

**Christos Makris**, Vasilis Baltikas, Yiannis Kontos, Yannis Androulidakis, Nikolaos Nagkoulis, Theofanis Karambas | Aristotle University of Thessaloniki; National Technical University of Athens; MarineTraffic, Greece  
*ACCU-WAVES: an Operational System for Wave Forecasts Supporting Ship Navigation Around and Inside Seaports*

**Christos Kontopoulos**, Vassiliki Charalampopoulou, Anastasios Tzepkenlis, Nikos Grammalidis, Dimitra Kitisiou, Zoe Pataki, Anastasia Patera, Theodoros Nitis | Geosystems Hellas S.A.; University of the Aegean Greece  
*EPIPELAGIC: an Integrated Decision Support System Using Satellite and in-situ Data for Coastal Area Hazard Mitigation and Resilience To Natural Disasters*



- 15:45 **Theodore M. Giannaros**, Antonios Bezes, Stavros Dafis, Eleni Dragozi, Athanassios Karagiannidis, Koletsis, Vassiliki Kotroni, Georgios Kyros, Konstantinos Lagouvardos, Georgios Papavasileiou | **National Observatory of Athens, Greece**  
*FIRESCOPE: a Fire Weather Information and Early Warning System Supporting the Shift From Suppression to Prevention in Europe and Greece*
- 15:45 **Ioannis Dokas**, Konstantinos Chouvardas, Apostolos Zeleskidis, Stavroula Charalabidou, Apostolos Vasileiou, Giorgos Mallinis, Christos Akratos, Eugenia Bezirtzoglou, Constantinos Chalioris, Lazaros Iliadis, Vasileios Margaris, Anastasia Paschalidou, Aggelos Protopapas, Nikolaos Klimis | **Democritus University of Thrace; Aristotle University of Thessaloniki; Region of East Macedonia; Institute of Engineering Seismology and Earthquake Engineering Greece**  
*The Risk and Resilience Assessment Center of the East Macedonia and Thrace Region: a New Multihazard Research Center for Risk and Resilience Assessment Studies*
- 16:00 **Kostas Kalabokidis**, Palaiologos Palaiologou, Olga Roussou | **University of the Aegean, Agricultural University of Athens Greece**  
*Fuels Management at the Landscape Scale for Wildfire Mitigation*
- 16:00 **Athanassios Ganas**, Ioannis Karamitros, George Mavropoulos, Dimitrios Anastasiou, Theodoros Athanassopoulos, Konstantinos Nikolakopoulos, Aggeliki Kyriou, Christos Kontopoulos, Vasiliki Charalampopoulou, Varvara Tsironi | **National Observatory of Athens; University of Patras; ES Systems; GEOSYSTEMS HELLAS, Greece**  
*A New Low-Cost GNSS and Strong Motion Instrument for Monitoring of Slopes and Critical Infrastructures Within the Greek "Supersite"*
- 16:15 **Giannis Kontos, Anastasia Mavridaki** | **Marathon Data, Greece**  
*ArcGIS: The Today and Tomorrow Necessary Technology*
- 16:15 **Alexia Tsouni**, Constantinos Loupasakis, Stavroula Sigourou, Vassiliki Pagana, Paraskevas Tsangaratos, Charalampos (Haris) Kontoes | **National Observatory of Athens; National Technical University of Athens Greece**  
*Fast-Track Assessment of Flood-Erosion-Landslide Risks in Fire-Stricken River Basins of the Region of Attica*
- 16:30 **Vana Giavi** | **totalview, Greece**  
*Choosing the Right Satellite Constellation for Wildfires, Floods and Other Civil Protection Events. Plan for Mitigation, Monitor for Readiness, Focus for Responsiveness, Scan for Assessment. Update on Latest Space Technology Products and Services*
- 16:30 **Paraskevi Georgiadou**, Dimitra Pinotsi, Theoni Koukoulaki, Konstantina Kapsali | **Hellenic Institute for Occupational Health and Safety, Greece**  
*New Challenges of Multi-Hazard Emergency Preparedness*

16:45 – 17:15 **Coffee Break**

## Sessions 1.5 & 1.6

29.09

### Hall A

- Chair:** **Vassilios Martzaklis, Ilias Argyris**
- 17:15** **Aspasia Karamanou**, Dimitrios Malliaros, Georgia - Christina Dreliosi | **Region of North Aegean, Greece; Strasbourg National School of Architecture, France**  
*Evacuation in WUI Fires: Understanding Public Attitudes and Perceptions in Preparedness Planning*
- 17:30** **Palaiologos Palaiologou**, Kostas Kalabokidis | **Agricultural University of Athens; University of the Aegean, Greece**  
*The Complex Problem of WildFire Management in the Municipality of Dionysos, Attica, Greece*
- 17:45** Georgios Sakkas, Vassiliki Varela, Iosif Vourvachis, Alexandros Giordanis, Stelios Andreadis, **Ilias Gialampoukidis**, Stefanos Vrochidis, Ioannis Kompatsiaris, Konstantinos Demestichas, Spyridon Kaloudis, Roula Kechri, Konstantinos Meletis | **Centre for Research & Technology Hellas; Hellenic Rescue Team; Centre for Research & Technology Hellas; Agricultural University of Athens; Region of Attica, Greece**  
*SILVANUS: An Integrated Technological and Information Platform for Wildfire Management – North Evia pilot area*

### Hall B

**Nikolaos Vorrias, Katerina-Navsika Katsetsiadou**

Kanella Valkanou, **Efthimios Karymbalis**, Konstantinos Tsanakas | **Harokopio University, Athens, Greece, Greece**  
*GIS-Based Morphometric Analysis for the Prioritization of Erosion-Prone Watersheds in Evia Island, Greece*

Charalambos Kontoes, Anastasios Anastasiadis, **Georgios Panagopoulos**, Constantinos Loupasakis, Konstantinos Chousianitis, Nikolaos Stathopoulos, Emmanouil Kirtas, Evi Riga, Kyriazis Pitilakis, Christos Karakostas, Sotiria Stefanidou, Konstantinos Papatheodorou, Elissavet Chatzicharalampous, Agavni Kaitantzian, Eleni Grigorakou | **International National Observatory of Athens; Hellenic University; Aristotle University of Thessaloniki; Institute of Engineering Seismology and Earthquake Engineering Greece**  
*Seismic Risk Assessment in the Region of Attica*

**Sotiris Valkaniotis**, Maria Taftsoglou, George Papathanassiou, Elisavet-Isavella Koutsoupaki, Dimitris Sotiriadis, Konstantinos Mpantralexis, Eleni Petala, Nikos Klimis, Ioannis Dokas | **Democritus University of Thrace; Aristotle University of Thessaloniki, Greece**  
*Towards a Complete Landslide Inventory for Assessing Landslide Hazard and Risk in East Macedonia and Thrace Region, Greece*

- 18:00 **Dimitrios Menemenlis**, Palaiologos Palaiologou, Kostas Kalabokidis | University of the Aegean; Agricultural University of Athens, Greece  
*Structure Vulnerability to Wildfires in the Wildland-Urban Interface of Ixia, Rhodes Island, Greece*
- 18:15 **Konstantinos Lympelopoulou**, Issaak Parcharidis | Harokopio University of Athens; Hellenic Army, Greece  
*An Approach to Forest Fires in Wildland-Urban Interface Areas: a Case Study from Attica Region (Greece)*
- 18:30 **Margarita Bachantourian**, Kostas Kalabokidis, Palaiologos Palaiologou | Hellenic Forest Service, University of the Aegean, Agricultural University of Athens, Greece  
*Evaluation of a Forest Fuel Management Plan Using Simulation Modeling in a Mediterranean Wildland-Urban Interface*
- Anna Karatzetzou, **Olga Markogiannaki**, Sotiria Stefanidou | Aristotle University of Thessaloniki; Techniki Anaptixi ATEBE; 3REDI Engineering Solutions, Greece  
*Earthquake: A Module of the LocalPro Platform for Seismic Risk Assessment At Local Scale*
- Constantine A. Antoniadou, **Dimitra Mavrommati**, Antonios Antoniadou, Aikaterini Tsoukala | National & Kapodistrian University of Athens; Regional Union of Municipalities of Crete Greece  
*Municipal Waste Landfill [Dump site] at Thira Island (Santorini) - Impact on environment - Administrations Negligence to Situate a Legal and Environmentally Friendly Residue Municipal Waste Landfill (RMWL) – Greek Ombudsman Intervention – Proposal for Locating a RMWL on the Island*
- Stelios Bollanos, Emmanouela Ieronymidi, **Theofilos Valsamidis** | Planetek Hellas, Greece  
*Rheticus – Earth Observation based predictive analytics for Civil Protection in Smart Cities*



## Workshop

09:00- 11:00

Hall A

30.09

### “Civil Protection and Challenges – FIRE-IN national Hub – Greece – The Greek Agenda”

#### Introductory Presentation:

Ioannis Tsaloukidis, Georgios Sakkas, Danai Kazantzidou-Firtinidou, **Vagia Pelekanou**

Center for Security Studies, Greece

**FIRE-IN: The EU Fire and Rescue Innovation Network**

The workshop is addressed to practitioners, local and regional authorities, civil protection agencies, research and academic organizations, industry and standardization bodies. The workshop is moderated by the Center for Security Studies, partner of the FIRE-IN project.

The agenda of the workshop consists of a brief presentation of the project results, presentation of recent natural disasters events and a discussion on current and future capabilities on incident command organization, community involvement and risk reduction. These capabilities will be discussed from the point of view of:

- Disaster management challenges in Greece,
- Solutions related to these,
- Priorities recognized.

The overall goal of the workshop is to create and deliver a “Hellenic Agenda” to the European Commission for future research programming, harmonized with the needs of other EU countries.

The discussion will be moderated by **Center for Security Studies Research** associates **Georgios Sakkas**, **Vassiliki Varela** and **Vagia Pelekanou**.

11:00 - 11:30

**Invited Talk | Chair: Gerasimos Papadopoulos**

**Kyriazis Pitolakis**

*European Association of Earthquake Engineering (EAEE), President |  
Aristotle University of Thessaloniki, Professor*

**Latest Progress in the Seismic Hazard and Risk Assessment of Thessaloniki, Greece**

11:30 – 12:00

**Coffee Break**

12:00 – 14:30

## Seminar: Seismic Protection of School Units



Organized by **Earthquake Planning and Protection Organization** of Greece in collaboration with **Region of Central Macedonia** and **Central Macedonia Regional Education Directorate** of the Hellenic Ministry of Education and Religious Affairs.

The seminar is addressing to the Principals of School Units of the Metropolitan Unity of Thessaloniki, and aims to train them in issues related to seismic risk, the relevant institutional framework and prevention and preparedness actions in the school environment.

The Seminar will also be broadcast online, covering teachers whose physical presence is impossible.

### SEMINAR AGENDA

**12:00-12:10** | Arrival

**12:10-12:40** | Greetings

- **Dr. Stergiadis Charalambos**, Forester, Head of the Autonomous Civil Protection Directorate of the Region of Central Macedonia
- **Akritidis Nikolaos**, member of the Coordination Group of the Crisis Prevention and Management Observatory of the Regional

**Stavros Kalogiannidis, Ilias Argyris**

## Poster Session

**12:00 – 12:10**

**Tzanis Fotakis**, I. Brellas<sup>1</sup>, Aikaterini Papatheodorou, George Petrakis, Achilles Tripolitsiotis, Panagiotis Partsinevelos | **Technical University of Crete, Greece**  
*SANDMAP: an Educational Platform to Enhance Crisis Management Spatial Interaction*

**12:10 – 12:20**

**Ioannis Kapris**, Areti Plessa, Nikos Passas, Miranda Dandoulaki | **Region of Attica, Greece**  
*Civil Protection Field Exercises for Forest Fire Preparedness at Local Level: the Experience of Region Of Attica, Greece, During the 2022 Fire Season*

**12:20 – 12:30**

**Irene Chrysafis**, Giorgos Mallinis, Vassileios Giannakopoulos, Ioannis Dokas | **Democritus University of Thrace, Greece**  
*Fire Risk Assessment in the Region of East Macedonia and Thrace*

**12:30 – 12:40**

**Vasiliki G. Kousteni**, Vasileios Martzaklis | **National and Kapodistrian University of Athens, Greece**  
*Deadly Fire in Mati, 2018: Tragic Faces and Facts*

**12:40 – 12:50**

**Stefanos Stefanidis**, Vasileios Alexandridis | **Aristotle University of Thessaloniki, Greece**  
*Wildfire Effects on Soil Erosion and Hydrology in a Typical Mediterranean Wildland – Urban Interface: the Case of South Athens, Greece*

**12:50 – 13:00**

Stylianios Bitharis, Ion Karolos, Konstantinos Bellos, **Christos Pikridas**, Vassilios Tsioukas | **Aristotle University of Thessaloniki, Greece**  
*The Contribution of 3D Digital Documentation to the Safety of Industrial Facilities*

**13:00 – 13:10**

**Zoe Nivolianitou** | **NCSR "DEMOKRITOS", Greece**  
*Can Environment be Damaged by Closed or Abandoned Industrial or Chemical Sites?*

Directorate of Education of Central Macedonia

**12:40-13:15** | Lecture

*Risk Management in School Units*

**Prof. Efthymios Lekkas**, E.P.P.O. President

**13:15-13:45** | Lecture

*Earthquakes and School Buildings*

**Fotis Karagiannis**, Civil Engineer, E.P.P.O. Education - Information Department

**13:45-14:20** | Lecture

*Seismic Risk and Preparedness of School Units. Experiences and Lessons Learned. Skills Workshops*

**Dr. Assimina Kourou**, Geologist, E.P.P.O. Acting Head of Social Seismic Defense Directorate

**14:20-14:30** | Discussion

**13:10 – 13:20**

Antonios Karteris, Georgios Tzanos, **Lazaros**

**Papadopoulos**, Konstantina Remoundou,

Theodoros Alexakis, Nikolaos Peppes, Konstantinos Demestichas, Dimitrios Soudris | **National Technical University of Athens, Greece**

*PRAETORIAN: Protection of Critical Infrastructures from advanced combined cyber and physical threats*

**13:20 – 13:30**

**Ilias Petrou**, Kyriaki Psistaki, Ioannis Dokas,

Anastasia Paschalidou | **University of Ioannina, Democritus University of Thrace, Greece**

*Studying The Toxic And Thermal Radiation Threat From Hypothetical Industrial Accidents*

**13:30 – 14:30**

**Lunch Break**

## Special Session

## Standardization

30.09

### Hall A

Chair: **Ioannis Chasiotis, Lefteris Ouzounoglou, Ilias Argyris, Aikaterini Poustourli**

- 14:45 **Ioannis Chasiotis**, Nikolaos Stefanou, Danai Kazantzidou-Firtinidou, Georgios Sakkas, Aikaterini Valouma, Leonidas Perlepes, Giorgios Eftychidis, Diana Iorga, Aikaterini Poustourli | **Satways Ltd., Greece; Hellenic Police, Greece; Romanian Standards Association – ASRO, Romania**  
*Emergency Response Planning: Efficiency through Standardisation*
- 15:00 **Aikaterini Valouma**, Leonidas Perlepes, Ioannis Chasiotis, Speranta Stomff, Janny Nijssingh, Coen Vaarkamp, Aikaterini Poustourli | **Satways Ltd., Greece; Romanian Standards Association – ASRO, Romania; Veiligheidsregio IJsselland, Netherlands**  
*Emergency Management - Exchanging of Building and Infrastructure Damage Information*
- 15:15 **Leonidas Perlepes**, Ioannis Chasiotis, Aikaterini Valouma, Giorgios Eftychidis, Antonis Kostaridis, Dimitris Diagourtas, Cristina Popa, Aikaterini Poustourli | **Satways Ltd., Greece; Romanian Standards Association – ASRO, Romania**  
*Collaborative Emergency Response – The Pathway to Standardisation*
- 15:30 **Danai Kazantzidou-Firtinidou**, Georgios Sakkas, Nikolaos Stefanou, Ioannis Tsaloukidis, Andreea-Lorena Salajan | **Center for Security Studies, Greece; Hellenic Police, Greece; Austrian Standards, Austria**  
*Standardization in Evaluation of Exercises for Crisis Management*
- 15:45 **Georgios Sakkas**, Danai Kazantzidou-Firtinidou, Ioannis Tsaloukidis, Efstathios Skarlatos, Vassiliki Varela, Ioannis Tsaloukidis | **Center for Security Studies, Greece**  
*Critical Infrastructure Protection: Standardisation and Exercises*
- 16:00 Spyridon C. Athanasiadis, **Panagiotis Michalis**, Eleftherios Ouzounoglou, Lazaros Karagiannidis, Angelos Amditis | **Institute of Communication and Computer Systems, Greece**  
*Specifications for Digital Scenarios to Enhance Acquisition of Triage Information During Search and Rescue Operations*

16:15 – 16:45 **Panel Discussion | Moderator: Aikaterini Poustourli**

**Panelists: Philippe Quevauviller [EC DG HOME F2], George Pallis [T4i engineering], Lazaros Karagiannidis [ICCS], Anastasia Moutzidou [CERTH], Nikolaos Stefanou [Hellenic Police]**

Aim: to address the need to bring together Greek actors with an interest in standardization of crisis and emergency management systems and procedures; plus the need for cooperation among them.

16:45 – 17:15 **Coffee Break**

17:15 – 17:45 **Invited Talk | Chair: Gerasimos Papadopoulos**

**Achilleas G. Samaras**

*Democritus University of Thrace, Assistant Professor*

**The Role of Advanced Numerical Models in Civil Protection Against Natural and Climate Hazards in Coastal Areas**



## Sessions 2.1 & 2.2

30.09

### Hall A

- Chair:** **Christos Pikridas, Pinelopi Ralli**
- 17:45** **Antonios Antoniadis, Panagiota Fragaloti, Constantine Antoniadis** | National & Kapodistrian University of Athens, Greece  
*Natural Disasters & Climate Crisis in Greece from 2000 to July 2022*
- 18:00** **Vasiliki Charalampopoulou, Constantine Spyarakos, Christos Kontopoulos, Charilaos Maniatakis, Charalampos Saroglou, Alexandros Paraskeuas, Benedetta Antonielli, Francesca Bozzano, Alessio Di Iorio, Renzo Carlucci** | Geosystems Hellas SA, Greece; National Technical University of Athens, Greece; Sapienza Università di Roma, Italy;  
*The Historic City of Nafplion: an Approach to Estimating the Effects of Geohazards on the Built Environment*
- 18:15** **Efstratios-Aimilios Katris, Triantafyllos Falaras, Issaak Parcharidis** | Harokopio University of Athens, Greece  
*An Integrated Approach Using Optical and SAR Multi-Temporal Data, Geospatial Technology and Web-GIS Visualization for Cultural Heritage Site Monitoring: the Case of Mantinea Site*
- 18:30** **Maria Manousaki, Efthymios Lekkas, Konstantinos Kyriakopoulos, Spyridon Mavroulis, Stavros Meletlidis** | Earthquake Planning and Protection Organization  
*Cumbre Vieja Eruption, 2021: Volcanic Crisis Management. The Greek Scientific Mission*

### Hall B

- Kostas Kalabokidis, Issaak Parcharidis**
- Panagiotis Michalis, Orestis Sampson, Vangelis Tsougiannis, Eleftherios Ouzounoglou and Angelos Amditis** | Institute of Communication and Computer Systems, Greece  
*AEOLIAN: a New Crowdsourcing Solution to Enhance Preparedness and Response to Natural and Anthropogenic Hazards*
- George D. Romosios, Vaios Zygouris** | Aristotle University of Thessaloniki, Greece; Hellenic Firemen School, Greece  
*Simulation of a Small Warehouse Fire Using the B-Risk Software*
- Miltiadis Athanasiou, Triantafyllos Bouchounas, Elias Tziritis, Evangelia Korakaki, Gavriil Xanthopoulos, Stamatia Sitara** | Wildfire Management Consulting and Training; Gigonis Ecospatial Services; Hellenic Agricultural Organization "Demeter"; WWF Greece; Chios Voluntary Action Team – OMIKRON, Greece  
*Prescribed Burning In Greece: Pilot Application In Chios Island*
- Charalampos Kontoes, Melpomeni Zoka, Anastasia Yfantidou, Martha Kokkalidou, Michail Tsoutsos, Stella Girtsou, Nikolaos Stathopoulos** | National Observatory of Athens, Greece  
*Fire Risk Assessment and Management Planning at a Building Block Level: the Case of Kaki Thallasa, Attica Region, Greece*



- 18:45 **Panagiota Fragaloti, Constantine A. Antoniadis** | National and Kapodistrian University of Athens, Greece  
*Civil Protection Innovative a Critical Approach on Provisions of the National Civil Protection Law – Implementation, Thoughts and Proposals – Part I (general)*
- 19:00 **Panagiota Fragaloti, Constantine A. Antoniadis** | National and Kapodistrian University of Athens, Greece  
*Civil Protection Innovative a Critical Approach on Provisions of the National Civil Protection Law – Implementation, Thoughts and Proposals – Part II (article review)*
- 19:15 **Ioanna Filandra, Constantine A. Antoniadis** | Ministry of Environment and Energy; National and Kapodistrian University of Athens, Greece  
*The Distinct Importance of "Interoperability" among all Involved Parties & the Catalytic Role of Climate Crisis in the Management of Forest Fires*
- 19:30 **Konstantinos Kokolakis** | Decentralized Administration of Macedonia, Civil Protection Division, former Director  
*Forest Fire Prevention, Preparedness and Response Planning 2022*
- Dimitrios Menemenlis**, Vasilios Savvas, Evangelia Chatzidaki, Venia Frarakis, Fotios Meletis, Iliana Papatheodoraki, Kaiti Skandalidi, Natalia Stamataki, Ioannis Stamatiadis | University of the Aegean; 3rd General High School of Rhodes, Greece  
*FIRESAT- Portable Atmospheric Measurement System for Pre – and Post – Wildfire Monitoring*
- Georgios Eftychidis, **Nikolaos Kamakiotis**, Vassiliki Varela | Center for Security Studies, Greece; Public Safety Incident Analyst", Larnaca, Cyprus  
*Comparative Analysis of two Extreme Wildfire Incidents: N. Voutzas/ Mati-Greece-2018 & Arakapas-Cyprus-2021*
- Petros Argyriou**, Vasilios Martzaklis | National and Kapodistrian University of Athens, Greece  
*Parameterization and Reliability Modelization of a Support Operation by Earthmoving Machinery During a Forest Wildfire*
- Lazaros S. Papadopoulos, Christos V. Komninou** | Hellenic Fire Corps; Firemen School, Greece  
*Firefighting Vehicles Modification Project: Self-Protection and Fire Protection*

## Sessions 3.1 & 3.2

01.10

### Hall A

- Chair:** **Nikolaos Vorrias, Dim. Menemenlis**
- 09:30** **Ioannis Koukouvelas**, Konstantinos Nikolakopoulos, Aggeliki Kyriou | **University of Patras, Greece**  
*Analysis of Geohazards Using Low-Cost Innovative Methods*
- 09:45** **Stavroula Sigourou**, Vaso Pagana, Panayiotis Dimitriadis, Alexia Tsouni, Theano Iliopoulou, G.-Fivos Sargentis, Romanos Ioannidis, Efthymios Chardavellas, Dimitra Dimitrakopoulou, Nikos Mamas, Charalampos (Haris) Kontoes, Demetris Koutsoyiannis | **National Observatory of Athens; National Technical University of Athens, Greece**  
*Flood Risk Assessment in the Region of Attica*
- 10:00** **Eleni Tzanou**, Antonios Chatzigiannis, Charalampos Skoulikaris, Georgios M. Tsakoumis | **International Hellenic University; Consortis; Aristotle University of Thessaloniki, Greece**  
*Performance and Interoperability Assessment of Flood Protection Intervention Measures and Action Plan in the Strymon River Basin, Greece*

### Hall B

- Anastasia Triantafyllou, Vassilios Lekidis**
- Konstantinos Papatheodorou**, E. Kirtas, K. Ntouros, G. Panagopoulos, P. Gakos, N. Theodoulidis, N. Klimis | **International Hellenic University; Institute of Engineering Seismology & Earthquake Engineering; Democritus University of Thrace, Greece**  
*Education & Tools to Support Public Response in Earthquake Emergencies: the Redact Educational Hub*
- Dimitrios Tzioutzios**, Miranda Dandoulaki, Ana Maria Cruz | **Kyoto University, Japan**  
*Exploring How Citizens Communicate about Natech Risk Through a Comparative Study and a Serious Game*
- George Hatzivasiliadis**, Ioannis - Aggelos Chatzivasiliadis, Manolis Tasiopoulos | **IVRSC – XVR HELLAS TEAM, Greece**  
*Comparative Field Advantages of Executive Training Using a Special Digital Training Platform (XVR) with Virtual Reality Simulation in Virtual Exercise Scenario Environments For Protection and Security*

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10:15 **Despoina Kanteler**, Evangelos Katsaros, Anastasios C. Andronikidis, Amalia Kouskoura, Yiannis Bakouros | **University of Western Macedonia, Greece**  
*Cross Border Emergency Management in the Balkans*

Stavros Kalogiannidis, Ioannis Papadomarkakis, Olympia Papaevangelou, Zacharias Karantonis  
**Eirini Eleni Nikolaou** | **University of Western Macedonia; Ministry of Education Greece**  
*Convergence of Public and Educational Systems for Better Catastrophe Preparation*

10:30 Stavros Kalogiannidis, Ioannis Amanatidis, Vaios Zygoris, Manos Parastatidis, **Despoina Savvidou**, Dimitrios Kalfas | **University of Western Macedonia, Greece**  
*The Contribution of Cyber Security to Improved Civil Protection. European Viewpoint*

**Georgios Tzanetis**, Panagiota Masa, Spyridon Kintzios, Stefanos Vrochidis, Ioannis Kompatsiaris, Anna Triantafylloy, Athanasios Liatifiis, Alexandros Giordanis, Iosif Vourvachis | **Centre for Research and Technology; University of Western Macedonia; Hellenic Rescue Team, Greece**  
*STRONG: an Advanced First Responders Training Approach*

10:45 **Christos Stefanis**, Elpida Giorgi, Konstantinos Kalentzis, Athanasios Tselemonis, Evangelia Nena, Christina Tsigalou, Christos Kontogiorgis, Yiannis Kourkoutas, Ekaterini Chatzaki, Ioannis Dokas, Theodoros C. Constantinidis, Eugenia Bezirtzoglou | **Democritus University of Thrace, Greece**  
*Epidemiological Surveillance Reports on Covid-19 in Greece. Sentiment Analysis And Public Perception Based on Machine Learning and Artificial Neural Network*

**Iosif Vourvachis**, Alexandros Giordanis, Quynh Nguyen, Lina Gyllencreutz, Helmut Schrom-Feiertag | **Hellenic Rescue Team, Greece; AIT Austrian Institute of Technology GmbH, Austria; Umeå University, Sweden**  
*MED1stMR: an integrated Training Using a Mixed Reality Approach Featuring Haptic Feedback for Enhanced Realism - EUO's Requirements*

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11:00 - 11:30 **Invited Talk | Chair: Gerasimos Papadopoulos**

**Motti Zohar**

*University of Haifa, Senior Lecturer*

**Spatial Approaches for Analyzing Historical Earthquakes Associated with the Dead Sea Transform**

11:30 – 12:00 **Coffee Break**

## Sessions 3.3 & 3.4

01.10

### Hall A

- Chair:** **Vassilios Martzaklis, Konstantinos Kokolakis**
- 12:00** **Alexios Vlachopoulos, Aspasia Tzeletopoulou,**  
Harris Georgiou, Pantelis Linardatos, George Diles,  
Thomas Papadimos, Zoe Vasileiou, Spyros Kintzios,  
Angelos Amditis, Nantia Skepetari | **Hellenic Rescue  
Team of Attica; EXUS Innovation, Centre for Research and  
Technology; Institute of Communication and Computer,  
Greece**  
*Field Trials of Information Fusion, Expert  
Reasoning, Social Media Exploitation and Worksite  
Operations in SAR Missions – INGENIOUS (EU  
Horizon 2020)*
- 12:15** **Evangelos Katsadourous, Panagiotis Kasnesis,**  
Dimitrios G. Kogias, Charalampos Z. Patrikakis,  
Alexios Vlachopoulos, **Aspasia Tzeletopoulou,**  
**Harris Georgiou** | **University of West Attica; Hellenic  
Rescue Team of Attica, Greece**  
*Smart Textiles and Biometrics/ Movement Data  
Fusion in Deep Learning for Search and Rescue  
Operations – FASTER (EU Horizon 2020)*
- 12:30** **Lorenzo Nerantzis, Iosif Vourcaxis, Christodoulos**  
Santorinaios, Loukas Ilias, Christos Ntanos, Ioannis  
Benekos | **Hellenic Rescue Team; National Technical  
University of Athens; Centre for Research & Technology,  
Greece**  
*Search and Rescue: Emerging technologies for the  
Early location of Entrapped victims under Collapsed  
Structures and Advanced Wearables for risk  
assessment and First Responder's Safety in SAR  
operations*

### Hall B

- Kon/nos Chouvardas, Mich. Papastergiou**
- Yannis Krestenitis, Yannis**  
Androulidakis | **Aristotle University of  
Thessaloniki, Greece**  
*Interannual and Spatial  
Distribution of Marine Heat  
Waves In Aegean, Ionian and  
Cretan Seas*
- Georgia Kalousi, Manon Besset,**  
Virginie Lafon, Aurelie Dehouck, **15**  
Konstantinos Mytakidis | **Terra  
Spatium SA, Athens, Greece; i-Sea,  
Bordeaux, France**  
*Watching Out Large-Scale  
Waterline and Coastal Changes in  
Greece, the Space for Shore  
Project, Under ESA's Coastal  
Erosion Project*
- Anastasia I. Triantafyllou,**  
Georgios S. Vergos, Georgios M.  
Tsakoumis | **Consortis; Aristotle  
University of Thessaloniki, Greece**  
*Development of an Integrated  
Observatory System for  
Preventing and Managing the  
Risk of Coastal Erosion Due to the  
Impact of Climate Change  
through the Utilization of Earth  
Observation Data*



- 12:45 **Dimitrios Iliadis**, Ioanna Gkika, Dimitrios Uzunidis, Iosif Vourvachis, Petros Drakoulis, Konstantinos Konstantoudakis, Panagiotis Kasnesis, Christos Chatzigeorgiou | **Hellenic Rescue Team; Centre for Research and Technology; University of West Attica, Greece**  
*Visual Computing and Radar Tools for Improved Situational Awareness in Search and Rescue Operations*
- 12:45 **Paschalis Koutalakis**, Anastasia Theodori, Christiana Konstantinidou, Ioannis Toskas | **Transport Authority of Thessaloniki S.A., Greece**  
*Statistical Analysis of Road Traffic Accidents Involving Public Buses*
- 13:00 **Panagiotis Partsinevelos**, Georgios Petrakis, Angelos Antonopoulos, Efstathios Bikos, Dimitris Chadziparaschis, Michalis Galanis, Achilles Tripolitsiotis | **Technical University of Crete, Greece**  
*Unleashing the Uncrewed Autonomous Systems Potential for Civil Protection*
- 13:00 **Michalis Tsitotas, Vassilios Lekidis**, Ioannis Moschonas | **Technical Chamber of Greece/ Section of Central Macedonia, Greece**  
*Structural Safety of Bridges, One Concise and Effective Way of Screening Old Bridges*
- 13:15 **Efstathios Skarlatos**, Konstantinos Apostolou, Vagia Pelekanou | **Center for Security Studies, Greece**  
*Use of Unmanned Aerial Systems for the Protection of Public Spaces: Positives and Threats*
- 13:15 **Maria Taftsoglou**, Sotirios Valkaniotis, George Papathanassiou, Nikolaos Klimis, Ioannis Dokas | **Democritus University of Thrace; Aristotle University of Thessaloniki, Greece**  
*Critical Infrastructures Constructed Upon Susceptible to Liquefaction Sediments: the Case Study of Nestos River*
- 13:30 **Aspasia Tzeletopoulou**, Alexios Vlachopoulos, Harris Georgiou, Dionne Sloof, Katerina Galanopoulou, Jens Lind, Margaux Faber | **Hellenic Rescue Team of Attica, Greece; Crisisplan B.V. (CPLAN), Netherlands; Sodertorns Branforsvarsforbund (SBFF), Sweden; Inconito (INC), France**  
*First pilot testing of Tactical Communication System, Symbiotic Operation Control Module, Smart UGVs and Smart UAVs at the Stockholm metro station – INTREPID (EU Horizon 2020)*
- 13:45 **Panagiota Masa**, Georgios Tzanetis, Spyridon Kintzios, Georgios Meditskos, Stefanos Vrochidis, Iosif Vourvachis, Lorenzo Nerantzis, Ioannis Kompatsiaris | **Centre for Research and Technology; Aristotle University of Thessaloniki; Hellenic Rescue Team, Greece**  
*Ontology-Based Technologies for Disaster Preparedness, Response and Recovery*



14:00 | Marios Bakratsas, Anastasia Moumtzidou, **Ilias Gialampoukidis**, Ioannis Lioumbas, Dimitris Iliadis, Caterina Christodoulou, Matina Katsiapi, Iosif Vourvachis, Stefanos Vrochidis, Ioannis Kompatsiaris | **Centre for Research and Technology Hellas, Greece**  
*Assisting First Responders in Water-Borne Hazards in Northern Greece through Pathocert Solutions*

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14:15 – 14:30 **Closing**

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