

1st Open Annual Workshop on Future ICT

25 MAY 2022 09:00 - 18:00





Exploring ICT state-of-the-art



Covering aspects such as 5G/6G, Cybersecurity, IoT and Cloud



Discovering European funded research projects

Physical Event The Golden Age Hotel of Athens, 57 Michalakopoulou Street, 11528

EIGHT BELLS Kolokotroni 5, Neo Psychiko, 15451, Greece +30 2106444553, info@8bellsresearch.com

www.8bellsresearch.com

About "1st Open Annual Workshop on Future ICT"

The "1st **Open Annual Workshop on Future ICT**" will take place physically, in The Golden Age Hotel of Athens (you can find more information at the end of the agenda), on May 25th, 2022, between 09:00 - 18:00 (Greek time).

Useful information:

- Registration: Free participation by registering at the Registration desk.
- Certificates of attendance will be provided to Workshop participants.
- Contact Information: +30 210 6444553, +30 6944 522418, <u>athens@8bellsresearch.com</u>

Disclaimer: the timing and scheduling of the timeslots may change depending on the presenters.

TOP 6 REASONS TO ATTEND



AGENDA - TIMETABLE

Nr. START END DUR. DESCRIPTION / PRESENTER / ENTITY	PROJECT
- 8:30 9:00 0:30 Registration & Coffee	
- 9:00 9:05 0:05 Opening Remarks & Introduction	
	Dr. Ioannis Giannoulakis,
Co-round	FIGHT BELLS LTD
1 9:05 9:20 0:15 Horizon Europe Cluster 4 Funding and Networking	HORIZON
opportunities (focus on Digital)	EUROPE
Mr. Georg	gios Megas,
National Documentation C	Centre (FKT)
2 9:20 9:35 0:15 How to finance your Digital Transformation: The EY	approach
• Vasile	ios Tsiamis,
Associate Partner, Strategy & Transactions Service	es, Head EU
Policies & Access to EU funding & Incentives, S	Security and
Defe	ence Leader
• Dim	itris Tasias
Director, Technology	/ Consulting
Ernst & Young Business Advisory So	lutions S.A.
3 9:35 9:50 0:15 EU-funded R&D initiatives on cyber defence	EDIDP2019 DANDORA
	PANDORA os Gardikis
R8	D Manager
S S	pace Hellas
4 9:50 10:05 0:15 Selected ongoing EU funded R&D projects in Cybers	ecurity • EDIDP 2019 -
and advanced communications systems	SMOTANET
Dr. Spyros	S Vassilaras, • PADR 2019
Intrace	om Defense • H2020 HERMES
5 10:05 10:20 0:15 Explainable Artificial Intelligence Framework for Inc	lustrial
Cybersecurity Threat Detection and Defense	
Dimitri	os Taketzis,
Researc	h Associate
Department of Information and Communicati	on Systems
Engineering (ICSD), University	y of Aegean
6 10:20 10:35 0:15 The Piedger Approach to Cloud-Edge Security	H2020 PIEDGER
Dr. (Olga Segou,
Senior Research and Innovation Development	nt Specialist

	Nr.	START	END	DUR.	DESCRIPTION / PRESENTER / ENTITY	PROJECT
	7	10:35	10:50	0:15	Evolution of phishing email attacks and sophisticated Machine	• EPANEK/EDK
					Learning detection solutions	NetPHISH
~						• H2020
Ē					Mr. Panagiotis Bountakas,	CyberSec4Europe
UR					Research Assistants	• H2020
EC					Systems Security Laboratory (SSL), Department of Digital	SECONDO
RS					Systems of the University of Filaeus	
ΥBI	8	10:50	11:05	0:15	Future ICT: a new approach from research to innovation	• H2020
ΰ					Mr. Paolo Comi	AI@EDGE
					Research and Innovation Manager	H2020 BRAINE
					Italtel s.p.a.	• H2020 GUARD
-	-	11:05	11:15	0:10	Coffee and Brokerage	
	9	11:15	11:30	0:15	Programmable Radio Propagation Environments: The RISE-6G	• H2020 RISE-6G
					Perspective	
					George Alexandropoulos,	
					Assistant Professor	
					Department of Informatics and Telecommunications,	
	10	11.20	11.45	0.15	National and Kapodistrian University of Athens (NKUA)	
	10	11.50	11.45	0.15	Mobility in the European Bologna-to-Munich corridor	• H2U2U 5G CARMEN
					nobility in the European Bologna-to-Munich cornuor	CANVIEN
					Mr. Fantini Roberto,	
S					Senior Radio Access Engineer	
DRK					Telecom Italia (TIM)	
Ň	11	11:45	12:00	0:15	5G programmability and development of Network	• H2020
ET					Applications (NetApps)	EVOLVED-5G
Z					Dr. Harilaos Koumaras,	
ZEI					Research Assistant Professor	
I RI					"Demokritos"	
٨A	12	12:00	12:15	0:15	Innovative connectivity technologies on the way from 5G to	
FT					6G	
so					Dr. Markus Werner,	
					Managing Director	
50					AEROLIFI - ATMOSPHERE	
	13	12:15	12:30	0:15	End-to-end real time service provisioning in SDN-controlled	• H2020 5G-
					heterogeneous Fiber-Wireless 5G/6G networks	PHOS
					Dr. Marios Gkatzianas,	• H2020 5G-
					Researcher Aristotle University of Thosseleniki	COMPLETE
	14	12.20	12.45	0.12	Photonics enabled Terahertz wireless communications for 5G	● H2020
	14	12.30	12.45	0.15	systems	TFRAWAY
					Dr. Panos Groumas.	
					Managing Director	
					Optagon Photonics	

	Nr.	START	END	DUR.	DESCRIPTION / PRESENTER / ENTITY	PROJECT
	15	12:45	13:00		Distributed approaches for signal processing and machine	
					learning tasks in 5G/6G wireless communications	
					Dr. Aris Lalos,	
IJ					Principal Researcher	
ы					Signal Processing & Communications Lab, Department of	
					Computer Engineering & Informatics, University of Patras	
					(Lab director: Prof. Kostas Berberidis)	
		42.00	42.45	0.45		
-	-	13:00	13:45	0:45	Lunch and Brokerage	112020
	16	13:45	14:00	0:15	Cloud Orchestration for Optimized Computing Efficiency: The	• H2020
					Case of Wind Resource Modelling	WINDSIDER
					Dr. ror. nat. Stamatia Pizou	
					Di. Tei. Ital. Stallatia Rizou, Pesearch Manager	
					Singularlogic Furonean Projects Department	
	17	14.00	14.15	0.12	Cybersecurity & Resilience in Smart Grid	• H2020 SDN-
	17	14.00	14.15	0.15	cybersecurity a resilience in sinare ona	microSENSE
					Panagiotis Sarigiannidis	
					Associate Professor.	
					Director of ITHACA - University of Western Macedonia	
					(UoWM), Department of Electrical & Computer Engineering	
Ю	18	14:15	14:30	0:15	Decentralized, secure, cognitive architectures, tools and	• H2020
EN					methods for cyber-physical system of systems	CPSOSAWARE
DIJ.						
Ē					Dr. Aris Lalos,	
Ľ.					Principal Researcher, Head of Multimedia	
IAI					Information Processing Systems Group	
EIC					Industrial Systems Institute, Athena R.C.	
LRT	19	14:30	14:45	0:15	Secure and Seamless Edge-to-Cloud Analytics	• H2020
-					Ma Cativia Discussionales	ELEGANT
n					Wir. Sotiris Diamantopoulos	
LO LO						
0	20	1/1./15	15.00	0.15	Deen Semantic NULL Algorithms for Information Superiority	Expert ai
	20	14.45	15.00	0.15	Deep semantic NEO Algorithms for information superionty	LAPELLAI
					Mr. Gianluca Sensidoni.	
					EMEA Sales Manager, R&D Security Manager	
					Expert.ai SpA	
	21	15:00	15:15	0:15	An Artificial Intelligence Framework for Addressing	H2020 AVENUE
					Cybersecurity Challenges in 5G-leveraged CAVs ecosystem	• H2020 nIoVe
					· · · · · · ·	• H2020 SHOW
					Dr. Antonios Lalas	• H2020 SANCUS
					Postdoctoral Research Associate	
					Information Technologies Institute, Centre of Research and	
					Technology Hellas (CERTH)	

	Nr.	START	END	DUR.	DESCRIPTION / PRESENTER / ENTITY	PROJECT
	22	15:15	15:30	0:15	Leveraging Cloud-native tools as the glue to seamlessly	• H2020 EVOLVE
					converge different computing worlds	
-						
4					Mr. Achilleas Tzenetopoulos,	
S					PhD student – Junior Researcher	
LO LO					Microprocessors and Digital Systems Lab (MicroLab) of the	
0					School of Electrical & Computer Engineering of National	
					Technical University of Athens (NTUA)	
-	-	15:30	15:40	0:10	Coffee and Brokerage	
	23	15:40	15:55	0:15	Al@EDGE: A Secure and Reusable Artificial Intelligence	• H2020
					Platform for Edge Computing in Beyond 5G Networks	AI@EDGE
					Roberto Riggio	
					Associate Professor	
	24	45.55	16.10	0.45	Universita Politecnica delle Marche	
	24	15:55	16:10	0:15	Humans in the loop: Humans as sensors and humans as	• H2020 STORM
					Charalamnes 7 Datrikakis	
					Charalampos Z. Paulkakis.	
					Dent of Electrical and Electronics Engineering	
					Liniversity of West Attica	
	25	16:10	16:25	0:15	Security and Privacy Protection in Internet of Things Devices	• H2020 SECANT
					Dr. Georgios Kioumourtzis,	
					Managing Director	
ORS					Ianus Consulting Ltd	
NSC	26	16:25	16:40	0:15	Multi-drone platforms for situational awareness in emergency	• H2020
SEI					response	PathoCERT
ര്					Dr. Panayiotis Kolios,	
ē					Research Assistant Professor,	
					KIOS Research and Innovation Center of Excellence,	
					University of Cyprus	
	27	16:40	16:55	0:15	Integrated Circuit Security: The Hardware Trojan example	
					Paris Kitsos	
					Associate Drofessor	
					Electrical and Computer Engineering	
					Lieutrical and computer Engineering, University of Pelononnese	
	28	16:55	17:10	0:15	5G Technologies and Cybersecurity in FU H2020 funded	• H2020
		_0.00	_/.20	2.20	projects	5GROUTES
					Mr. Philippos Philippou.	• H2020
					R&D Senior Project Manager	5GSOLUTIONS
					eBOS	• H2020 VITAL5G
						• H2020
						5GMEDIAHUB
						• H2020 SANCUS

	Nr.	START	END	DUR.	DESCRIPTION / PRESENTER / ENTITY	PROJECT
	23	17:10	17:25	0:15	COVID@HOME: A remote monitoring system for COVID-19	• H2020 COVID-X
					patients	
					Mrs. Xenia Varveri,	
					Marketing Manager	
					Business & Bytes Informatics Ltd	
	30	17:25	17:40	0:15	8BMGT: Eight Bells Maritime Gimbal-Enabled Thermal Camera	• H2020
					Mr. Emmanouil Fountoulakis,	RESPOND-A
					Senior Researcher and Project Manager	
					EIGHT BELLS LTD	
	31	17:40	17:55	0:15	InfraStress: A situational awareness platform in service of	• H2020
DRS					collaborative crisis management.	INFRASTRESS
NSC						
SEr					Mr. Umberto Battista,	
8					Chief Technology Officer	
Ю					STAM SRL	
	32	17:55	18:10	0:15	Non-Public LTE/5G Networks for Airports	
					Mr. George Kontopoulos,	
					Softwarized Networks Domain Director	
	33	18:10	18:25	0:15	SPIDER	H2020 SPIDER
					Mrs. Konstantina Papachristopoulou,	
					Senior EU R&D Project Manager	
		10.25	10.25	0.10	EIGHT BELLS LTD	
-	-	19:52	19:32	0:10		nnic Ciannaulakia
					DI. 10d Co. foundar and Chief	
			18:35		End of the day	

Nr.	1	Time	09:05	09:20
Title	Horiz (focu	con Europe Cluster 4 Fur s on Digital)	ding and Networki	ng opportunities
Presenter	Mr. C Horiz	ieorgios Megas on Europe Cluster 4 main	NCP for Greece, Innc	ovation Consultant
Entity	Natio	NATIONA DOCUMEN CENTE	tre (EKT) L NTATION R	
Abstract		Cluster 4 of Horizon Europe Cluster 4 is one of the Pillar and industry competitivene the primary vision behind to shaping competitive and re- that will lead the world in protection dimension in the respect for the limits of co- competitive, digital, low-ca- sustainable supply of raw provide the basis for progra society. <u>EKT as National Contact Poi</u> EKT is a National Contact Poi EKT is a National Contact Poi Marie Skłodowska-Curie Ac- 'Health' and Digital Technol It supports organisations organisations: from identif submitting proposals, impli results. In addition, it cor Greece's participation i programmes. As a National under Horizon 2020. EKT network of Ideal-ist and Ind EKT is the first Digital Innov- the European Commission Group of the European Corr EKT is also the Coordinator of	II Programmes to addr ss million. With a budge the proposed investme liable technologies for n key areas, enhancing production process, ar our planet. The aim is rbon and circular indus materials, develop adv ress and innovation in <u>nt of Horizon Europe</u> int (NPC) for Horizon Eu- tions (MSCA) programmo ogies, Industry and Spa s, companies, acade ying funding opportune ementing projects and atributes to the record n European researc Contact Point, it supports is a key member of t ustry NCP4Industry. ation Hub (DIH) in Gree ist. It actively participa umission. of the Greek EIT Health	ess global challenges et of about 15 billion, nts is that of Europe a European industry g the environmental id consumption, with to move towards a try that will ensure a anced materials and global challenges for urope, specifically the ne of Pillar 1 and the ce' sectors of Pillar 2. mics and research ities to drafting and I exploiting research ding and analysis of h and innovation orts ongoing projects he Horizon Europe's ce to be registered in tes in the DIH Expert node in Greece.
Relevant Pro	jects			

Nr.	2	Time	09:20	09:35
Title	How	to finance your Digital Tr	ransformation: The	EY approach
Presenter	• Mr. Assoc & Acc • Din Direc	Vasileios Tsiamis , ciate Partner, Strategy & Ti cess to EU funding & Incen hitris Tasias, ttor, Technology Consulting	ransactions Services, tives, Security and Do	Head EU Policies efence Leader
Entity	Ernst E Buildin workin	s & Young Business Advis	ory Solutions S.A.	
Abstract		Considering the fact that Dig but rather a necessity is entrepreneurs need to adhe funding instruments, so as possible. A prerequisite for such an ho knowledgeable of all key teo that are reflected in the prio European Union. Hence, organisations need t pillars, such as Cloud si Cybersecurity. With regards applying End-to-end Cloud Si approaches. With regards to IoT, the en Analytics, IoT platforms, an Cybersecurity, the focus is business applications and environments, so enterprisis enable innovation with conf After developing an under organisations need to proce policies for the digital trans- funding options to support developed a specific approace technological and industrial	gital transformation is r since all market sec re to a holistic understa to achieve it as rapic olistic approach, howev hnological trends in the rities of funding instrur o find their path based olutions, Internet of to the former, digital tr ervices and successful mphasis is on applying d IoT security & conn on evaluating and sec data platforms how es can make transforr idence. erstanding of these to eed with a) an analysi sformation, and b) the to the private and/or p ch to navigate this lands base in Greece.	tot a luxury anymore, tors are disrupted, anding of all available lly and efficiently as er, is to be aware and e European ICT sector nents available in the on key technological Things (IoT), and ransformation means Cloud transformation g IoT Data Advanced lectivity solutions. In uring trust in critical sted in multi-cloud national change and e identification of EU public sector. EY has scape and support the
Relevant Pro	jects			

Nr.	3	Time	09:35	09:50	
Title	EU-fı	unded R&D initiatives on	cyber defence		
Presenter	Dr. G R&D	Dr. Georgios Gardikis R&D Manager			
Entity	SPAC	CE HELLAS S.A.			
MSPACE					
Abstract		Improving the EU capacity top priorities in European respective funding opportu This presentation will start w project, co-funded by EC, G research directions on cybe latest calls of the EDF progr	on cyber defence ope defence R&D, as als unities in the EDIDP a with a brief overview of reece and Cyprus. It wi er defence, aligned with amme.	rations is among the o highlighted by the nd EDF programmes. f the EDIDP PANDORA II also identify further h the priorities of the	
Relevant Pro	jects	• EDIDP 2019 PANDORA			

Nr.	4	Time	09:50	10:05
Title	Selec adva	ted ongoing EU funded nced communications sys	R&D projects in C stems	ybersecurity and
Presenter	Dr. S R&D	pyros Vassilaras Programs Manager		
Entity	INTR	ACOM DEFENSE SINGLE	MEMBER S.A.	
Abstract	1	This presentation will provi which aim to advance to telecommunication system project PRIVILEGE, and H2C by Intracom Defense (IDE), advanced, secure, ad hoc PRIVILEGE focuses on of techniques for sharing co technologies, but without r an ambitious 4-year proje wireless data rates in 6G su spectrum sensing for cogni objectives and underlying to be outlined and the role of	de an overview of 3 EU the state-of-the-art in s, namely EDIDP project 20 FET Open project H SMOTANET is a project wireless network suit developing privacy-pro onfidential data so as revealing the actual data set which aspires to a ub-THz bands, as well itive radio and signal in echnologies of each one IDE will be highlighted.	funded R&D projects n cybersecurity and ect SMOTANET, PADR HERMES. Coordinated it aiming to design an able for tactical use. reserving tools and s to be used by Al ta. Finally, HERMES is achieve tens of Gbps as efficient wideband ntelligence. The basic e of the 3 projects will
Relevant Projects		 EDIDP 2019 - SMOTANET PADR 2019 PRIVILEGE H2020 HERMES 		

Nr.	5	Time	10:05	10:20		
Title	Explainable Artificial Intelligence Framework for Industrial Cybersecurity Threat Detection and Defense					
Presenter	Mr. D Resea	Dimitrios Taketzis arch Associate				
Entity	University of Aegean Department of Information and Communication Systems Engineering (ICSD)					
Abstract		Given the high heterogene and software interoperabili to escalating cyber-threat substantial economic and so defense of these industrial integrate Big Data Analytic logic of CTI applications and extensive use of Artificial methods, is based primarili resources such as log file Intelligence (OSINT) and oth incidents or data. While it is promising and highly efficient industrial environment, and general, require much great and assisting in making optit interpretation associated architectures can mainly at frequent adjustment of sor reduce the algorithm's relicharacterize the systems i hinder the main stakehold making meaningful and so systems. Wanting to over artificial intelligence fram detection and defense is pr	ity and the correspond ity, the Industrial enviro vulnerabilities, leadin social consequences. A networks is based on ac cs and Cyber Threat In data-driven systems in Intelligence and Mach y on systematic and la s, malware binaries, e her sources of informat widely accepted that in ent in detecting comple d the protection of crit iter transparency in dea mal decisions in genera with the use of com ffect the model's perfor me critical hyperparam iability and the genera n question. The disadvers, e.g., CISO, CEO, et systematic use of Al- rcome these challeng ework for industrial oposed. It is a holistic r	ing lack of hardware onment is vulnerable g to problems with though, the modern dvanced systems that itelligence (CTI). The general, which make ine / Deep Learning irge-scale analysis of events, Open Source ion on cyber security itelligent systems are ex cyber threats, the ical infrastructure, in aling with these risks I. The lack of detailed inplex deep learning rmance, prevent the eters, and ultimately alization that should vantages in question c., from trusting and driven cybersecurity these, and explainable cybersecurity threat meta-learning system		

that automates selecting and using the most appropriate algorithmic hyperparameters that optimally solve a problem under consideration approaching it as a solution search model where it is solved by mapping input and output data using Weight Agnostic Neural Networks (WANN methodology. It is an evolving strategy in neural network developmen techniques that can perform a specialized task regardless of the weight of the connections in the building blocks of the neural network, which equates to a lack of training. The logic of using WANN is a priman investigation in the search for architectural neural networks with specific biases that can potentially categorize a given problem, ever when using random weights. This digital security system can create robust self-identifying systems capable of withstanding even zero-dar attacks. To explain how to select the most appropriate hyperparameter and, more generally, to explain how to solve the given problem, the Shapley methodology is widely used, which offers clear explanations fo which interactions are performed between the characteristics variables make a decision. Shapley methodologies are a very effective way of generating explanations from game theory and specifically a cooperative game, where it is rendered by a real function that give values to player sets. The explanations are divided into general one where the most essential features of the system are investigated and explained, which may depend only linearly or monotonously on certail features, instead of contains more complex dependencies. The connection of Shapley values with the problem of explaining the architectural structures of WANN is made by considering WANN as a collaborative game whose players are the characteristics of the data set The gain function is the neural network model under consideration, and the model predictions the corresponding gains. In this context, the Shapley values show the contribution of each feature and, therefore explain why the model made a specific decision. The method works as	
hyperparameters that optimally solve a problem under consideration approaching it as a solution search model where it is solved by mapping input and output data using Weight Agnostic Neural Networks (WANN methodology. It is an evolving strategy in neural network developmen techniques that can perform a specialized task regardless of the weight of the connections in the building blocks of the neural network, which equates to a lack of training. The logic of using WANN is a primar investigation in the search for architectural neural networks with specific biases that can potentially categorize a given problem, ever when using random weights. This digital security system can create robust self-identifying systems capable of withstanding even zero-dar attacks. To explain how to select the most appropriate hyperparameter and, more generally, to explain how to solve the given problem, the Shapley methodology is widely used, which offers clear explanations fo which interactions are performed between the characteristics variables make a decision. Shapley methodologies are a very effective way of generating explanations from game theory and specifically a cooperative game, where it is rendered by a real function that give values to player sets. The explanations are divided into general one where the most essential features of the system are investigated and what interactions take place between them and local explanation focusing on data samples, where the prediction is analyzed and explained, which may depend only linearly or monotonously on certail features, instead of contains more complex dependencies. The connection of Shapley values with the problem of explaining the architectural structures of WANN is made by considering WANN as collaborative game whose players are the characteristics of the data set The gain function is the neural network model under consideration, and the model predictions the corresponding gains. In this context, the Shapley values show the contribution of each feature and, therefore explain wh	that automates selecting and using the most appropriate algorithmic
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methodology. It is an evolving strategy in neural network development techniques that can perform a specialized task regardless of the weight of the connections in the building blocks of the neural network, which equates to a lack of training. The logic of using WANN is a primary investigation in the search for architectural neural networks with specific biases that can potentially categorize a given problem, ever when using random weights. This digital security system can create robust self-identifying systems capable of withstanding even zero-da attacks. To explain how to select the most appropriate hyperparameter and, more generally, to explain how to solve the given problem, the Shapley methodology is widely used, which offers clear explanations fo which interactions are performed between the characteristics variables make a decision. Shapley methodologies are a very effective way of generating explanations from game theory and specifically a cooperative game, where it is rendered by a real function that give values to player sets. The explanations are divided into general one where the most essential features of the system are investigated and what interactions take place between them and local explanation focusing on data samples, where the prediction is analyzed and explained, which may depend only linearly or monotonously on certain features, instead of contains more complex dependencies. The connection of Shapley values with the problem of explaining the architectural structures of WANN is made by considering WANN as a collaborative game whose players are the characteristics of the data set The gain function is the neural network model under consideration, and the model predictions the corresponding gains. In this context, the Shapley values show the contribution of each feature and, therefore explain why the model made a specific decision. The method works as a linear model and, more specifically, as a method of additionan contribution of features. Intuitively with the proposed approach, ar explanatio	input and output data using Weight Agnostic Neural Networks (WANN)
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holistic approach, which fully automates and thoroughly explains how machine learning algorithms work in the Industrial CTI application, help the particular use of AI-driven cybersecurity systems.	specific presence or absence of a variable that leads to a decision. This
the particular use of Al-driven cybersecurity systems.	noiistic approach, which fully automates and thoroughly explains how
the particular use of Al-driven cybersecurity systems.	machine learning algorithms work in the Industrial CTT application, helps
	the particular use of Al-driven cybersecurity systems.

Relevant Projects ___

Nr.	6	Time	10:20	10:35
Title	The F	Pledger Approach to Clou	ıd-Edge Security	<u></u>
Presenter	Dr. Olga Segou Senior Research and Innovation Development Specialist			
Entity Neto		ompany - Intrasoft arch and Innovation Development Department Eteompany intrasoft		
Abstract		Pledger is an innovative p processes to enable edge c and performance effective computing adopters to une applications. The project independent validators of the complex and decentra along with their dynamic applications and services can have critical QoS demands crucial to ensure that the in proper cybersecurity asset threats and ensure privacy threat analysis methodolo illustrate some early results	project that will delive omputing providers to ness of their edge infra derstand the computat will also allow third QoS features in IoT ap lised nature of Edge-C ic nature introduces on be instantiated and t and perform data-inte offrastructure is appropu- ts are in place to add and service continuity ogy, the Pledger secur s from our security dem	r a set of tools and enhance the stability istructures, and edge tional nature of their d parties to act as oplications. However, Cloud infrastructures, cyber risks. When urn down in seconds, nsive operations, it is riately hardened, and dress evolving cyber . We will present the rity architecture and no.
Relevant Projects		• H2020 PLEDGER		

Nr.	7	Time	10:35	10:50
Title	Evolu Learr	ition of phishing email ning detection solutions	attacks and sophis	sticated Machine
Presenter	Mr. P Resea	anagiotis Bountakas arch Assistant		
Entity	Unive Syste	ersity of Piraeus ems Security Laboratory (UNIVERS OF PIRA	SSL), Department o SITY EUS	f Digital Systems
Abstract		The wide expansion of em same time a growing and l are the most pernicious cy actions that often act as a and sophisticated attacks (a email attacks, traditional en to curb the on-going threat solutions for detecting phis based on Machine Learning presentation will highligh elaborate on recent ML-I Finally, it will present the approach that has attaine evaluation scenarios.	ails render them a pric nazardous threat. Phish yber-criminal strategy to preliminary stage for co e.g., APTs). Despite the nail filtering techniques to f phishing emails. The shing emails have been to increase the detect to the evolution of p based phishing email results of a new Hybri ed high detection perf	eless tool and at the ning email campaigns to perform malicious onducting large-scale longevity of phishing have been inefficient us, new sophisticated n introduced that are ion performance. The phishing emails and detection solutions. d Ensemble Learning formance in real-life
Relevant Projects		EPANEK/EDK NetPHISH H2020 CyberSec4Europe H2020 SECONDO		

Nr.	8	Time	10:50	11:05
Title	Futu	re ICT: a new approach fr	om research to inno	ovation
Presenter	Mr. P Resea	Paolo Comi arch and Innovation Manac	ger	
Entity	Italte	Is.p.A.	91	
Abstract		We propose our idea to innovation of future ICT ma innovation activities need t tangible and relevant imp Market is the final destinati bridge between research parallel from both sides. For this reason, we have following the Open Innovat research and innovation w internal and external coope	approach the transition arket. We believe that is o cross organizational b act on the Company ion. To make this journ ideas and market exp created a Research ion paradigm to promo vith a new mindset an eration.	on from research to modern research and boundaries to reach a and on the Society. ey we have to build a bloitation working in and Innovation Lab ote, at the same time, ad openness towards
Relevant Projects		H2020 AI@EDGE H2020 BRAINE H2020 GUARD		

Nr.	9	Time	11:15	11:30
Title	Prog Pers	rammable Radio Propag pective	gation Environmen	ts: The RISE-6G
Presenter	Geor Assis	ge Alexandropoulos tant Professor		
	Natio Depa DE	onal and Kapodistrian Un artment of Informatics and PARTMENT OF INFORMA	iversity of Athens d Telecommunicatio TICS 🕇 TELECOMM	ons JUNICATIONS
Entity	HELLENIC REPUBLIC National and Kapodistrian University of Athens EST. 1837			E
Abstract	Reconfigurable Intelligent Surfaces (RISs) constitute the programmable propagation of electromagnetic signals an being considered as a candidate physical-layer technolo demanding connectivity, reliability, localization, and s requirements of 6G wireless communications networks. T present the core objectives and up-to-date technical achie the ongoing EU H2020 RISE-6G project which focuses on the RIS-based technological solutions to achieve intelligent, sust dynamically programmable wireless environments that go the 5G capabilities.		tute the enabler for ignals and are lately technology for the a, and sustainability tworks. This talk will nical achievements of uses on the design of gent, sustainable, and s that go well beyond	
Relevant Pro	jects	• H2020 RISE-6G		

Nr.	10	Time	11:30	11:45
Title	5G-C the E	ARMEN - 5G for Connect uropean Bologna-to-Mur	ed and Automated hich corridor	Road Mobility in
Presenter	Mr. F Senic	a ntini Roberto or Radio Access Engineer		
Entity	Telec	com Italia		
Abstract 5G-CARMEN is an EU-funded Horizon 2020 project that 5G digital corridor for connected and automated m Bologna-Monaco motorway. Activities currently of demonstrating the use of 5G to support autono situations where an unconnected vehicle would intervention. The use cases of the project are tester focus on border areas, where maintaining continuity challenging. Key factors are the 5G technology and ar architecture to ensure reliability and improved latency		that aims to create a d mobility along the y ongoing focus on onomous driving in ould require human ested with particular ity of service is more d an Edge Computing ency.		
Relevant Pro	jects	• H2020 5G CARMEN		

Nr.	11	Time	11:45	12:00
Title	5G p (Net/	rogrammability and dev Apps)	elopment of Netw	ork Applications
Presenter	Dr. H Resea	arilaos Koumaras arch Assistant Professor		
Entity	Natio Instit Medi	onal Centre for Scientific I ute of Informatics and Te a Networks Laboratory (I With the second seco	Research "Demokri lecommunications MediaNet Lab)	tos"
Abstract	Programmability in the telecom network capabi developers, allowing th vertical applications. Th embodies this openness applications via standar (APIs). The ecosystem of facilitating middleware building on the applicati may offer, releasing ne implementation compone for NetApps are present from development to ma		G Core (5GC) allows ties and services avai ent to create innovat e 5G Service Based y exposing network int ized Application Prog Network Applications (petween the network n empowerment that w economic potential nts of an open all-encor ed, which covers their ket release.	operators to make lable to third-party tive network-aware Architecture (SBA) telligence to vertical ramming Interfaces NetApps) arises as a c and applications, programmable APIs s. The design and mpassing framework complete life cycle
Relevant Pro	jects	• H2020 EVOLVED-5G		

Nr.	12	Time	12:00	12:15
Title	Innov	vative connectivity techno	ologies on the way	from 5G to 6G
Presenter	Dr. N Mana	larkus Werner ging Director		
Entity	AEROLIFI GmbH / ATMOSPHERE			
Abstract		Combining the compleme Atmosphere GmbH (Germ recent R&D As an optical technolog spectrum, LiFi or VLC can for component in future 6G ne to its inherent 'very small and opportunities are d development and roadma based on recent work t Connectivity for various ve In the second part of t connectivity for and throu recent R&D achievements this area are presented. So connectivity, flight trials i scenarios, and the role networks.	ntary R&D work from any), the presentation y working in both v orm a very interesting, etworks. Mostly for ind cell' capability, the key iscussed, and the sta op of aeroLiFi is present owards integrated mo ertical markets and user he presentation, sele ugh small civilian UAVs is and further ambition ome focus is laid on in ncluding UAVs for spe of UAV connectivity	aeroLiFi GmbH and will highlight several risible and infrared tailored connectivity oor applications due features, challenges atus of technology nted. Some focus is ultilink LiFi/WiFi/5G r segments. cted topics around are addressed, and as of Atmosphere in tegrated 5G/satcom cific first responder in future 6G NTN
Relevant Proj	jects			

Nr.	13	Time	12:15	12:30
Title	End-t heter	o-end real time servic ogeneous Fiber-Wireless	e provisioning in 5G/6G networks	SDN-controlled
Presenter	Dr. N Resea	larios Gkatzianas archer		
Entity	Aristotle University of Thessaloniki, Department of Informatics, Center for Interdisciplinary Research and Innovation ARISTOTLE UNIVERSITY OF THESSALONIKI			
Abstract		Fiber-Wireless (FiWi) conv promising low-cost, energy growth in 5G and beyond n with their stringent throu dense and concentrated enabling a sustainable evo the 6G era. Towards this performed in two H2020 the WinPhos research g Research and Innovation and 5G-Complete (coordi Research Laboratory in the Systems of the National Te we propose and demonst RAT-agnostic and SDN-pro FiWi transport solution ex multi-rate DSP-assisted op band millimeter wave MII alternative to the legacy (advances in Ethernet-base view of the 5G architectur storage resources over Network (RAN) to transfo infrastructure efficiently s common Ethernet-based enabled network orchest resource allocation algorit	vergence has clearly er y-efficient solution to a hobile broadband and L ghput and latency required Hotspot deployment so- lution path of the mob goal, we will present in 5GPPP projects: 5G-PH roup in the Center of of the Aristotle Univer nated by the Photonic echnical University of A rate, via a live field triat grammable analog Rac ploiting novel Photonic otical transmission engin MO antennas to offer CPRI-based solutions. Need X-hauling, 5G-Comp re and introduces distri a unified converged orm it into a 3-tier (in supporting different X- platform jointly coord rator in tight integrati hms.	nerged as the most ddress the explosive JRLLC services, along uirements, in highly cenarios, while also ile network towards n this talk the work IOS (coordinated by for Interdisciplinary sity of Thessaloniki) cs Communications ation and Computer thens). In 5G-PHOS, al, an interoperable, lio-over-Fiber-based c Integrated Circuits, nes and modular V- a packetized X-haul Aotivated by similar lete takes a holistic buted compute and FiWi Radio Access .e., edge/fog/cloud) haul flows under a linated by an SDN- on with specialized
Relevant Proj	jects	• H2020 5G-PHOS • H2020 5G-COMPLETE		

Nr.	14	Time	12:30	12:45
Title	Phot syste	onics enabled Terahertz ms	z wireless commu	nications for 5G
Presenter	Dr. P Mana	anos Groumas Iging Director		
Entity	Optagon Photonics P.C.			
Abstract		The 5G vision for high-cap densely deployed base st connectivity solutions tha demands. Terahertz wirel range of 300 GHz have bee optical fiber links offerin generated on photonic Terahertz signals on PICs frequency, and possibilit processing techniques technology enabled by TERAWAY will be presented links for the 5G front-hau electronic driving solution potential will be also prese	pacity connectivity even cations and new front t can cope with the in ess signals with carrie en identified as possible g similar capacity an integrated circuits s offers flexibility in s cy for combination w like optical beam PICs developed with ed for application to h al and back-haul netwo is that allow these PIC ented.	rywhere will require -haul and back-haul acreasing bandwidth r frequencies in the e alternative to short d moreover can be (PICs). Generating selecting the carrier with complex signal forming. Terahertz in the EU project igh-capacity wireless orks. The developed s to operate at their
Relevant Projects		• H2020 ICT-TERAWAY		

Nr.	15	Time	12:45	13:00
Title	Distr learn	ibuted approaches for ing tasks in 5G/6G wirel	signal processing	g and machine
Presenter	Dr. A Princi	ris Lalos, ipal Researcher, ISI		
Entity	Unive Depa Proce Berb	ersity of Patras artment of Computer Eng essing & Communication eridis) MANEΠΙΣΤΗ ΠΑΝΕΠΙΣΤΗ	ineering & Informat s Lab (Director: Prof MIO NIO	tics, Signal f. Kostas
		We are entering an era in expected to support high	which wireless communer of the second seco	nication systems are ritical transmissions

with privacy constraints among a variety of heterogeneous devices both from the side of the infrastructure as well as the end user's side, in order to support 5G and envisioned 6G use cases in autonomous driving, precision agriculture, and remote sensing, to name a few. An already powerful set of wireless communications technologies including (massive) MIMO (operating in the mmWave/THz bands), relaying, and cognitive radio is further enriched with new ideas including intelligent surfaces, and mobile BSs using UAVs. For these technologies to deliver what is theoretically expected, communication algorithms need to be scalable, capable of capturing all relevant information about the transmission environment, adapt to time Abstract varying conditions, while imposing minimum communication overheads. On top of the previous challenges, time critical operations hint to the execution of the desired functionality closer to the edge of the network with as little intervention from, e.g., base stations and the cloud, as possible. To address these challenges, a new generation of distributed and adaptive signal processing and machine learning algorithms needs to be devised for (a) the physical and multiple access layers and (b) system-wise and end-user-wise learning operations that take into account the wireless environment. In this talk, recent activities in channel estimation, coordinated beamforming, multiple access using NOMA, and fully distributed federated learning, among others, will be presented.

Relevant Projects

Nr.	16	Time	13:45	14:00
Title	Cloud Orchestration for Optimized Computing Efficiency: The Case of Wind Resource Modelling			
Presenter	Dr. rer. nat. Stamatia Rizou Research Manager, European Projects Department			
Entity	SingularLogic, a Space Hellas Group member SingularLogic Member of Space Hellas Group			
Abstract		The Weather Research a purpose open-source wea wind energy community. for wind resources modell The fundamental challeng for accurate modelling, as computing of such massiv the-art approaches are no going to present our wor project that tackles this is framework relying on cli- presentation, we will discu proposed Cloud Orchestr flexible cloud deploymer chains. Moreover, a set o criteria will be presented, model.	and Forecasting (WRF) ather model, which is Existing applications us ing do not always meet ge is the massive quant is well as the expenses we volumes of data, im of appropriate. In this p of appropriate. In this p is in the context of th ssue with the use of a oud computing technic uss the overall software ration System, enablin of containerized wi f performance, functio , using a real use case	model is a multi- widely used by the sing the WRF model t the sector's needs. tity of data required associated with the plying that state-of- presentation, we are e H2020 WindSider novel orchestration ologies. During the e architecture of the g the dynamic and nd resource model anal and operational of a wind resource
Relevant Projects		• H2020 WINDSIDER		

Nr.	17	Time	14:00	14:15
Title	Cybe	rsecurity & Resilience in	Smart Grid	L
Presenter	Pana Assoc	giotis Sarigiannidis ciate Professor, Director of	ITHACA	
Entity	Unive Depa	ersity of Western Macedo artment of Electrical & Co	onia (UoWM) mputer Engineering	9
	U West	Iniversity of the management of the series o	HAC	
Abstract		In view of the Industry 4.0 p are becoming common in critical infrastructure para integration of IoT into SG related to the generation an monitoring, supervision, an legacy grid to a SG ecosys Intelligence and Machine optimising energy-related making processes. Despite introduces several cybers exposed to cyberthreats. Since the SG constitutes importance, potential disr devastating consequences of This presentation, entitled aims to explore the princi enabled Smart Grid enviror incidents, vulnerabilities an Also, appropriate counter ensuring the SG cybersed presented. In addition, par novel technologies, such Network Function Virtualis	aradigm, Internet of Th modern industrial syndigms such as the Su facilitates the automate and distribution of energe d control. Moreover, the stem enables the emple e Learning (AI/ML) operations and supp its numerous benefits, ecurity risks as the in so a critical infrastruct uptions to its normal on both societal and ecc "Cybersecurity & Resil ples of cybersecurity a ments and provide an d associated risks. rmeasures, methodolo surity and resilience r ticular focus will be giv as Software Defined ation (NFV), and Next-	ings (IoT) applications /stems, especially in mart Grid (SG). The ion of the processes (y, by offering remote le digitalisation of the ployment of Artificial algorithms towards orting the decision- the integration of IoT nfrastructure is also cture of paramount operation can have onomical levels. ience in Smart Grid", and resilience in IoT- overview of potential ogies, and tools for equirements will be en to the leverage of I Networking (SDN), -Generation Internet-

	of-Things (NG-IoT), for enabling large-scale threat detection,
	identification, and mitigation. Finally, the presentation will outline good
	cyber hygiene practices, introducing the latest outcomes and results of
	the H2020 SDN-microSENSE (833955) project, and discuss future
	research directions.
Relevant Projects	H2020 SDN-microSENSE

Nr.	18	Time	14:15	14:30		
Title	Dece for cy	centralized, secure, cognitive architectures, tools and methods r cyber-physical system of systems				
Presenter	Dr. A Princi Head	. Aris Lalos, ncipal Researcher, ead of Multimedia Information Processing Systems Group				
Entity	Indus	ndustrial Systems Institute (ISI)				
A FEN In this operatio (CPSoS) such sys reacting purpose reliabilit CPS des sharing t propose users/op haptics i to inclu phase. E awarene employin the aford use case		In this talk, a holistic, operation approach that s (CPSoS) autonomic (witho such systems aware of the reacting to it accordingly so purpose will be presented reliability, fault tolerance a CPS designs that work in sharing tasks and data wi proposed system supports users/operators through haptics interfaces) to increa- to include human behave phase. Emphasis is also awareness in a swarm employing information different the aforementioned tools use cases concludes this tage	decentralized and co supports CyberPhysical put human intervention heir physical and cybe o that they constantly r ed. The proposed so and security at system le a decentralized way, th minimal central int is the interaction of the extended reality mo ease human situational vior in the CPSoS dec given on enhancing of Connected and fusion. Finally, the succ and methods in autom lk.	gnitive design and System of Systems n) behavior, making er environment and natch their intended olutions strengthen evel but also support collaboratively, by ervention. Also, the e CPSoS with human odules (AR glasses, awareness but also sign and operation the 4D situational Automated robots, ressful application of notive and industrial		
Relevant Projects		• H2020 CPSOSAWARE				

Nr.	19	Time	14:30	14:45		
Title	Secu	Secure and Seamless Edge-to-Cloud Analytics				
Presenter	Mr. S Resea	otiris Diamantopoulos arch Consultant				
Entity	EXUS	EXUS EXUS.				
Abstract	:	Nowadays, the main drivin decisions that derive from obtained from IoT device Regarding computational significantly varying from s the performance of suc compared to Big Data pri- category as they all operat and energy profiles that However, even in such sce efficiently with the amound due to scalability or opera- computations, by mean aggregations, filtering or a in order to enable a first before they reach the bac The existing Big Data/ uniformity and interopera- data analytics) for the folla 1. Fragmentation of pro Big Data frameworks such as Java or Scala, w languages. Hence, any devices and on the Big 2. Lack of dynamic code and deploy logic on the has to be manually de 3. Inability to dynamica energy efficiency, sec- optimization space: E	ng force of extreme ana n processing vast amou es (predicted to reach l capacity, the IoT smartphones to micro-oc ch devices can differ rocessing, they broadly te in orders of magnitud n large scale-out data marios, Big Data infrastr nt of raw data that IoT d ational cost challenges. s of lightweight AI mo t order of data manipu- kend of the Big Data sta loT programming par bility of end-to- end pro owing reasons: gramming languages ar are programmed with while IoT frameworks ty y code that manipulates g Data platform has to k e motion: Users canno- he edge. For every new ployed and re-compiled ly perform decisions i urity, reliability, and de xisting unified systems	lytics is the business ints of data streams 25 billion by 2020). devices can differ controllers. Although dramatically when y fall into the same de lower for capacity a analytics clusters. ructures cannot cope evices can generate, Therefore, on-edge nputations such as idels, are performed ulation and filtering acks. radigm breaks the pocessing (from IoT to and code duplication: high-level languages pically rely on native s data both on edge- pe written twice. t dynamically select v functionality, code d. in the performance, ependability (PESRD) cannot intelligently		

	make decisions of where to execute code or move data in order to satisfy the PESRD requirements of the whole deployment.
	 ELEGANT's vision is summarized by the following objectives: Unification of programming environments: Through virtualized execution, both Big Data and IoT devices will offer the same application programming interface (API) to programmers. This will allow us to define operators, code them once, and deploy them both at the data analytics (Big Data) and the IoT sides.
	Dynamic Code Motion: By unifying the programming environments between Big Data and IoT we will enable code reuse between the different platforms. This in turn, will enable the dynamic code motion across the different layers of the deployments. This will be achieved by enabling the lightweight IoT runtimes to dynamically accept and apply incoming operators without restarting their execution.
	Intelligent resource selection and allocation: By enabling the dynamic code motion between Big Data and IoT we essentially unify the two systems, thereby allowing intelligent resource selection and allocation. By establishing a global monitoring system, we will enable decisions such as where to execute code, how much and which data we can process in-situ or stream to the data analytics side, IoT energy savings, etc.
	Secure, Reliable, and Dependable code deployment: The unification of operators that can execute on both IoT and Big Data will enable a single code validation and security point for all running code. In addition, the same runtime verification and security techniques will be applied on both sides. Finally, through dynamic code motion we will be able to transition between in-situ on-edge processing and data streaming completely dynamically based on the data sensitivity, network stability, and software and hardware reliability.
Relevant Projects	• H2020 ELEGANT

Nr.	20	Time	14:45	15:00		
Title	Deep	Deep Semantic NLU Algorithms for Information Superiority				
Presenter	Mr. G	iianluca Sensidoni A Sales Manager, R&D Sec	urity Manager			
Entity	expert.ai					
Abstract	:	Expert.ai is a LE, leader in A more than 30 years of exp largest organizations and the Americas and the Mid Analysts, data scientists a of our patented Al-based which combines semantic highest performing, most complex unstructured info Roughly 80% of data is (Unstructured Big Data). insights from domain expe algorithms must be adop They can gather contents line and off-line), analys algorithms and discovering on a dedicated population a targeted GEO location. From social media to sc newspapers, and more; information so that practi that trigger new ideas or ability to automatically u approaches to advanced a for their territory by mea avant-garde behavioural a analysis.	Artificial Intelligence (Al perience in NLU. We we government agencies dle East. nd linguists worldwide NLU technology and i s and ML/DL (so Hybri pragmatic way to add ormation management estimated to be in ar If the goal is to impre- erts, Artificial Intelligen ted as part of the nex coming from different sing/fusing them by of g insights referred to (f during a specific temp ientific papers, from everything becomes itioners can find the "in activate verifications of inderstand natural lan nalysis; even citizens ca ans of analysis of the l lgorithms such as emoti) applied to text with ork with some of the throughout Europe, recognize the value ts unique approach, d technology) as the dress even the most use cases. n unstructured form ove know-how with ce (AI) and Cognitive t big data analytics. type of sources (on- deep semantic NLU f.e) particular threats oral reference and in technical reports to a useful source of nformation nuggets" or interventions. The nguage enables new an become "sensors" human factors using tions and stylometric		

	The target is to provide high level TRL AI/Cognitive algorithm with			
	strong tuning on the specific domains and languages (built-in			
	knowledge by domain experts), so that the analytical task can be			
	domain focused, can run automatically and with objectivity on 24/7,			
	going to leave the final action and deduction to humans as added			
	value in the last part of the reasoning process.			
	This can greatly increase the "Intelligence" as "Information			
	Superiority" so going to unveil the "exceptions of the rules", low			
	signals/low level indicators and finally improve and fastening the			
	quality of decision-making processes.			
Relevant Projects				

Nr.	21	Time	15:00	15:15	
Title	An Artificial Intelligence Framework for Addressing Cybersecurity Challenges in 5G-leveraged CAVs ecosystem				
Presenter	Dr. A Posto	ntonios Lalas loctoral Research Associate	e		
Entity	Centre of Research and Technology Hellas (CERTH) Information Technologies Institute CERTH CENTRE FOR RESEARCH & TECHNOLOGY HELLAS				
Abstract		The massive connectivity vehicles as fundamental co- rapidly emerging. A variety servers, infrastructure, per- mobile networks and espe- In addition, the vehicles a targeting autonomous environment, but also navigating through cities Connected and Autonomo in mobility and transpor infrastructure. However, f cybersecurity challenges p multiple vectors. A cyber-a even jeopardize human sat protection of CAVs is of pa are urgently required. Artif robust solutions shielding cybersecurity challenges thoroughly presented, whi holistic AI-enabled cyberse	of devices, systems, omponents of the smar of vehicles wirelessly e destrians, and other ve cially the novel deploye are transforming towa functionality, sensing the internal in-cabin is without human in ous Vehicles (CAVs) intr t, along with associa this comes with the c ertaining to higher risk ttack in a CAV can yield fety in different ways. T ramount importance a ficial Intelligence (AI) ca g CAVs and associated in 5G-leveraged CA ile various solutions are ecurity framework.	infrastructure, and t cities ecosystem, is exchanging data with hicles, utilize mainly ed 5G infrastructure. rds automation and g the surrounding environment, and put. Consequently, oduce new enablers ted communication ost of a new set of as of cyber-attacks in high recall costs and therefore, the cyber- nd appropriate tools n effectively provide d 5G networks. The two ecosystem are e explored towards a	
Relevant Pro	jects	 H2020 AVENUE H2020 nloVe H2020 SHOW H2020 SANCUS 			

Nr.	22	Time	15:15	15:30	
Title	Leve	raging Cloud-native tools rent computing worlds	s as the glue to sear	nlessly converge	
Presenter	Mr. A PhD s	Achilleas Tzenetopoulos Student - Junior Researche	r		
Entity	National Technical University Of Athens (NTUA) Microprocessors and Digital Systems Lab (MicroLab) of the School of Electrical & Computer Engineering				
Abstract	Cloud-native technologies are recently used in various fields, to for seamless deployment and to offer a higher level of abstract the users. The current challenge, as it is described in the Eur Commission roadmap is software to be distributed, form "continuum of computing" across platforms and devices, frou "deep edge" to the cloud, HPC, and data centers. In EVOLVE, a pan-European Innovation Action we aimed to integrate High-Performance-Computing (HPC) hardware with of-the-art software technologies under a unique testbed, that en the convergence of HPC, Cloud, and Big-Data worlds and to into our ability to extract value from massive and demanding dat EVOLVE's advanced compute platform combines HPC-er capabilities, with transparent deployment at a high abstraction and a versatile Big-Data processing stack for end-to-end work Hence, domain experts have the potential to substa improve the efficiency of existing services or introduce new mon the respective domains, e.g., automotive services, bus transport maritime surveillance, and others. In Al@EDGE, another H2020 project, we develop a connect-con platform – specifically leveraging the serverless paradigm creating and managing resilient, elastic, and secure end-t network slices. Such slices will be capable of supporting a d range of Al-enabled applications. Privacy-preserving machine le			rious fields, to allow vel of abstraction to ed in the European ributed, forming a d devices, from the we aimed to fully- ardware with state- estbed, that enables rlds and to increase emanding datasets. bines HPC-enabled gh abstraction level, d-to-end workflows. al to substantially oduce new models in , bus transportation, a connect-compute ess paradigm — for secure end-to-end upporting a diverse ing machine learning red to ensure each	

	stakeholder can use the platform without disclosing sensitive information.
	Our main contribution is focused on three fields: i) designing hardware-accelerated AI functions on a variety of platforms, e.g. FPGA, GPU, TPU, ii) allowing for hardware-acceleration enabled infrastructure over the Kubernetes container orchestrator, and iii) providing a methodology for intelligent resource management of accelerated AI functions in MEC systems.
Relevant Projects	• H2020 EVOLVE

Nr.	23	Time	15:40	15:55		
Title	Al@E for E	DGE: A Secure and Reus dge Computing in Beyon	able Artificial Intel d 5G Networks	ligence Platform		
Presenter	Mr. R Assoc	t oberto Riggio ciate Professor				
Entity	Univ	Università Politecnica delle Marche UNIVERSITÀ POLITECNICA DELLE MARCHE				
Abstract		Artificial Intelligence (AI) has become a major innovative force and a major pillar in the fourth industrial revolution. This trend has been acknowledged by the European Commission, who has pointed out how high-performance, intelligent, and secure networks are fundamental for the evolution of the multi-service Next Generation Internet (NGI). While great progress has been done in the accuracy and performance of AI-enabled platforms, their integration in autonomous decision-making and critical systems requires end-to-end quality assurance. The AI@EDGE project addresses these challenges harnessing the concept of "reusable, secure, and trustworthy AI for network automation". To this end, AI@EDGE targets significant breakthroughs in two fields: (i) general-purpose frameworks for closed-loop network automation capable of supporting flexible and programmable pipelines for the creation, utilization, and adaptation of the secure, reusable, and trustworthy AI/ML models; and (ii) converged connect-compute platform for creating and managing resilient, elastic, and secure end-to-end slices supporting a diverse range of AI-enabled network applications. Cooperative perception for vehicular networks, secure, multi-stakeholder AI for Industrial Internet of Things, aerial infrastructure inspections, and in-flight entertainment are the uses cases targeted by AI@EDGE to maximise its commercial societal and environmental				
Relevant Projects • H2020 AI@EDGE						

Nr.	24	Time	15:55	16:10	
Title	Huma	ans in the loop: Humans a	as sensors and hum	ans as actuators	
Presenter	Mr. C Profe	Charalampos Z. Patrikakis ssor	;		
Entity	University of West Attica Department of Electrical and Electronics Engineering				
Abstract	With the explosive growth of computing and communications, translated into minimisation of size, exponential increase in processing, and ubiquitous and ultra-high speed wireless communications, the concept of the Internet of Everything, where people, devices, and software are always connected has become a reality. We are ready to see more than a simple communication between humans and devices, advancing to the level of collaboration between humans and machines (and AI advocates for that). In this presentation, cases where the combined use of machine processing, AI, digital communications and active human involvement (both at physical and mental level) can provide added value and cost-effective solutions to problems such as remote monitoring, protection of cultural heritage and the fight against misinformation, all taken out of results from EU research projects in the context of H2020 framework.				
Relevant Projects • H2020 STORM					

Nr.	25	Time	16:10	16:25		
Title	Secu	rity and Privacy Protectio	on in Internet of Thi	ngs Devices		
Presenter	Dr. G Mana	eorgios Kioumourtzis aging Director				
Entity	Ianus Consulting Ltd					
Abstract		The SECANT platform will stakeholders, implement collection, analysis and sha designed for interconnect cutting-edge trust and acc and (d) security awaren choices. The proposed sol validated in four realistic healthcare ecosystem. Ultimately, SECANT will co readiness and resilience modern cyber-threats, in accountability across the reducing the costs for secu	enhance the capabilit ing (a) collaborative aring; (b) innovative rish ted nodes of an indus ountability mechanism ess training for more ution's effectiveness a c pilot use case scena ontribute decisively tow of the organizations a creasing the privacy, o entire interconnected urity training in the Euro	ies of organizations' threat intelligence canalysis specifically strial ecosystem; (c) s for data protection e informed security nd versatility will be arios applied in the wards improving the gainst the crippling data protection and ICT ecosystem, and opean market.		
Relevant Projects		• H2020 SECANT				

Nr.	26	Time	16:25	16:40		
Title	Multi-drone platforms for situational awareness in emergency response					
Presenter	Dr. Pa Resea	anayiotis Kolios arch Assistant Professor				
Entity	University of Cyprus KIOS Research and Innovation Center of Excellence					
Abstract	Research and Innovation Center of Excellence Waterborne pathogen contamination events can occur anywhere, and may be caused by various natural events or they can be the result of human activity, either accidental or malicious. During these emergencies, first responders may need to operate within a certain pre-defined incident area, and are likely to be exposed to contaminated water originating from various sources, such as surface water, wastewater or drinking water. This can pose a significant risk of illness, disease or even death, through skin contact, ingestion or inhalation. This talk will first overview the H2020 PathoCERT project that aims to strengthen the coordination capability of the first responders in handling waterborne pathogen contamination events. This will increase the first responders' capabilities, allowing the rapid and accurate detection of pathogens, improving their situational awareness, and improving their ability to control and mitigate emergency situations involving waterborne pathogens. Then, it will focus on the multi-drone platforms for situational awareness in emergency response developed at the KIOS Center of Excellence, as an integral part of the Pathogen Contamination Emergency Response Technologies (PathoCERT) technologies that will be field-validated by first responders within this project					
Relevant Pro	jects	• H2020 PathoCERT				

Nr.	27	Time	16:40	16:55
Title	Integrated Circuit Security: The Hardware Trojan example			
Presenter	Mr. Paris Kitsos Associate Professor			
Entity	University of Peloponnese Electrical and Computer Engineering Κατανικών Καρανικών Μηχανικών Δηχανικών Υπολογιστών ΠΑΝΕΠΙΣΤΗΜΙΟ ΠΕΛΟΠΟΝΝΗΣΟΥ UNIVERSITY ##PELOPONNESE			
AbstractIn the first part of this talk the activities of the ECE departme the Electronics Circuits, Systems and Applications laboratory Lab) will be presented.AbstractThe main scope of second part is the presentation of the basis destructive methods for detecting Hardware Trojans (H Integrated Circuits (ICs). These methods are divided into ru methods, logic-time methods and side channel analysis me After presenting the main features of these methods a Ring Os based method for HT detection will be presented.		ECE department and ns laboratory (ECSA on of the basic non- e Trojans (HTs) in vided into run time el analysis methods. ods a Ring Oscillator		
Relevant Projects				

Nr.	28	Time	16:55	17:10
Title	5G Technologies and Cybersecurity in EU H2020 funded projects			
Presenter	Mr. Philippos Philippou R&D Senior Project Manager			
Entity	ebos			
Abstract		connectivity and streamline operations at higher capacities, the upgraded mobile network offers revolutionary potential capable to transform the whole world. Ensuring the availability, confidentiality and integrity of information in an ever-increasing digital world renders a robust cybersecurity framework critical to the infrastructure of today's companies. The presentation takes a close look at work done in 5G technologies and Cybersecurity in EU funded projects under Horizon 2020 programme and discusses the objectives and scope of the research endeavours, the adopted methodology towards the vision of the projects as well as the discovered benefits and lessons learned. It concludes with an insight to the research results.		
Relevant Projects		 H2020 5GRoutes H2020 5GSolutions H2020 Vital5G H2020 5gMediaHub H2020 SANCUS 		

Nr.	29	Time	17:10	17:25
Title	COVI patie	D@HOME: A remote nts	monitoring system	for COVID-19
Presenter	Mrs. 2 Marke	Xenia Varveri eting Manager		
Entity	Busin	ness and Bytes Information	:s Ltd.	

The national health systems of EU countries have been overwhelmed by the rapid progression of the COVID-19 pandemic and, especially during the exponential phase of each wave, hospitals and personnel struggle to provide the appropriate level of care for each individual patient. Most patients however do not require the on-site facilities of a hospital, merely close monitoring by healthcare personnel. The private health care sector is uniquely qualified to tackle this challenge since it is mainly comprised of smaller, more "agile" teams and facilities. All they lack is a specialized tool to assist in and coordinate the tasks of medical data collection, analysis, communication with the patient and staying up-to-date with the latest scientific information on the pandemic.

COVID@HOME (C@H) provides a solution for the remote monitoring Abstract of patients with mild to moderate symptoms who are already at home or under consideration for hospital discharge, by enabling and encouraging patients to adopt an active approach to their disease management in cooperation with a local health provider of their choice. C@H consists of a modular client-server software package, with the server side hosted locally at the health provider and the client side running on the patient's and physician's smartphone or equivalent device. It consists of a patient's app, where the patients can record their symptoms and medical data accurately, and a doctor's app, where the healthcare professional can access patient files and evaluate the patient's condition. The system also supports automatic retrieval of vital data (oxygen saturation, temperature, pulse rate, etc.) with the use of third-party CE-marked medical sensors that connect with the system. The doctor can also receive an alert for

	the patients' need for hospitalization via the Medical Data Analysis module (Al feature) that is developed.
	C@H provides a better alternative to the uncertainty of the recommended self-evaluation of symptoms by creating way for patients to accurately record their symptoms from the comfort of their own home and relieve the healthcare system in these trying times. We aim to contribute in bridging the gap between technological innovations and the needs of the healthcare system to fully harness the power of data.
	C@H is developed by Business & Bytes, Ltd., a medical software solution provider that takes advantage of emerging technologies to create integrated solutions for healthcare providers and their patients, and validated by Vascular Research, a healthcare provider and our clinical partner during the solution's development.
Relevant Projects	• H2020 COVID-X

Nr.	30	Time	17:25	17:40
Title	8BMGT: Eight Bells Maritime Gimbal-Enabled Thermal Camera			
Presenter	Mr. Emmanouil Fountoulakis Senior Researcher and Project Manager			
Entity	EIGH	EIGHT BELLS LTD EIGHT BELLS LTD Independent Research & Consultancy		
Abstract		EIGHT BELLS, with a long-standing expertise in research and innovation projects, is further expanding its R&D portfolio by introducing an advanced thermal imaging family of products, incorporating uncooled thermal sensor, day camera and Laser Range Finder (LRF) applicable to all kinds of terrains including land, sea and air.		
		The 8BMGT, inhouse designed and developed by EIGHT BELLS is an advanced gimbal-mounted camera capturing the infrared thermal radiation emitted by objects and humans. It requires no ambient light and operates during day and night under any weather conditions. The 8B THERMAL CAMERA supports video analytics and can be used for both ground and maritime applications.		
Relevant Projects		• H2020 RESPOND-A		

Nr.	31	Time	17:40	17:55	
Title	InfraStress: A situational awareness platform in service of collaborative crisis management.				
Presenter	Mr. U Chief	Mr. Umberto Battista Chief Technology Officer			
Entity	STAM				
Abstract	 STAM is a multidisciplinary engineering firm which provides high-tech and turnkey solutions in the following domains: Industry 4.0 & Robotics, Space & Defence, Security & Transport, Energy & Biocircular economy. Since 2010 we have enlarged our expertise to sensors and measuring techniques as well as IoT, High Performance Computing and Cloud. The enthusiasm and the cross-sectoral experience of the personnel is our main asset jointly with our patent's portfolio and our 500+ network of satisfied clients and partners across EU and beyond. INFRASTRESS addresses cyber-physical (C/P) security of Sensitive Industrial Plants and Sites (SIPS) Critical Infrastructures (CI) and improves resilience and protection capabilities of SIPS exposed to large scale, combined, C/P threats and hazards, and guarantee continuity of operations, while minimizing cascading effects in the infrastructure itself, the environment, other Cls, and citizens in vicinity, at reasonable cost. INFRASTRESS, with its 27 partners from 11 countries, achieved to build on preceding research towards a TRL 7 solution that includes threat detection, situational awareness, input from end-users and evaluation activities, presented in user-friendly services. With its integrated customized solutions, INFRASTRESS also hopes to help cultivate a culture of participation among all involved stakeholders, from the private and public sector to civil society and citizens 			n provides high-tech ns: Industry 4.0 & ort, Energy & Bio- asors and measuring mputing and Cloud. e of the personnel is folio and our 500+ J and beyond. ecurity of Sensitive structures (CI) and of SIPS exposed to ds, and guarantee ading effects in the Cls, and citizens in es, achieved to build that includes threat users and evaluation TRESS also hopes to mong all involved to civil society and	
Relevant Projects • H2020 INFRASTRESS					

Nr.	32	Time	17:55	18:10
Title	Non-Public LTE/5G Networks for Airports			
Presenter	Mr. George Kontopoulos Softwarized Networks Domain Director			
Entity	EIGHT BELLS LTD EIGHTBELLS BEIGHTBELLS Independent Research & Consultancy			
Abstract	Airports globally face a lot of challenges making it hard to ac profitability. As airports turn to transformative technology initi to tackle those challenges and capitalize on the massive data generate, they find that connectivity on their campus is an impo- enabler for this digitalization journey. Wireless connectivity provided by private LTE/5G campus net enables airports to consolidate existing legacy systems, reduce and provide service to previously difficult to cover environ (under the wing). New use cases are emerging for the terminal, aircraft maintenance at the gate, first responders, asset tracking, etc. No first mover is Aéroports de Paris embarking on a "Smart Ai transformation project. Selecting the proper deployment option and defining the partne is critical for the success of non-Private network deployments.		g it hard to achieve echnology initiatives e massive data they upus is an important G campus networks ystems, reduce TCO cover environments minal, aircraft line tacking, etc. Notable n a "Smart Airport" sing the partner roles deployments.	
Relevant Projects				

Nr.	33	Time	18:10	18:25
Title	SPIDER: a cyberSecurity Platform for vIrtualiseD 5G cybEr Range services			
Presenter	Mrs. Senic	Konstantina Papachristop or EU R&D Project Manage	poulou	
Entity	EIGHT BELLS LTD			
Abstract		5G technologies through spectrum of functions and role towards the successfu the EU affecting a wide rathealthcare, public safety, transportation and finar challenges and a broad sp consideration towards 5G The increasing complexity threat landscape intensifie for improving the technication in the multi-tenant and multi- domain's 5th generation (are increasingly sophistic despite billions of euros address the above, SPIDE environment that provide master how to use domain collaboratively improve the risks. As a result, SPIDER Service (CRaaS) platform cybersecurity professional being trained under reat Platform extends and telecommunication testber for (i) testing new security defenders in near real organisations and releving cybersecurity investment customisable dynamic new	their potential to en- d applications are desti- ul digital socio-econom- inge of sectors such as manufacturing, media- nce. However, there bectrum of vulnerabilit secure network archite of the telecommunica- es the need for new sec al security skills of expe- nulti-service environme 5G). At the same time, icated, pervading criti- invested in cybersec ER developed a sophis es its users (trainees) n-specific cyber protecti- heir ability to handle has delivered a nove- n targeting 5G depl s of various levels to er flistic conditions. The combines the capal- eds and cyber ranges in cy technologies, (ii) tra- world conditions, a vant stakeholders in the conditions. At its co- twork modelling instru-	able and support a ned to play a major ic transformation in IoT, energy utilities, and entertainment, are many security ies to be taken into ecture development. tion domain's cyber curity solutions and erts and non-experts nts coming with the attack mechanisms cical infrastructures urity measures. To ticated cyber range with the ability to ion technologies and incidents and cyber cloyber Range as a loyments to assist nhance their skills by innovative SPIDER bilities of existing nto a unified facility ining modern cyber nd (iii) supporting n making optimal ore, it is a highly ument that enables

	real-life virtualisation and emulation of networks and systems. It also
	offers real-time interaction and information sharing capabilities by
	acting as a serious gaming repository for multiple stakeholders to
	share material and maximise efficiency in delivering complex cyber
	exercises. SPIDER's gamified learning environment enables trainees to
	master how to use domain-specific cyber protection technologies and
	collaboratively improve their ability in handling incidents and risks.
	Complemented by cyber econometric capabilities, SPIDER also
	enables users to forecast the evolution of attacks and their associated
	economic impact through the application of innovative risk analysis
	methodologies, econometric models and real-time attack emulation.
	The proposed cyber range model is currently being validated in five
	highly realistic pilot use case scenarios aimed at demonstrating its
	applicability and validity. Learn more at https://spider-h2020.eu/.
Relevant Projects	H2020 SPIDER

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Athens was founded more than 5,000 years ago and therefore is the undisputed, most ancient capital in Europe.

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- Athens offers a variety of things to see and do, most of the time under favorable weather conditions.
- Athens is considered one of Europe's safest capitals; its transportation network is user-friendly.
- Athens is an ideal congress destination, combining state-of-the-art infrastructure, excellent conference facilities and easy access from all over the world with world-class cultural attractions, modern amenities, diverse entertainment and natural beauty.

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- https://www.discovergreece.com/el
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