CURRICULUM VITAE

of Helen (Nelly) Aikaterini Leligou

Electrical and Computer Engineer, PhD

 Associate Professor at University of West Attica (previous Piraeus University of Applied Sciences)

https://www.linkedin.com/in/nelly-leligou-635a4510/

PERSONAL INFORMATION

Place and Date of Birth: Athens, 21/5/1972

Civil Status: Married with three children

Work Address: University of West Attica, School of Technological

Applications,

Department of Industrial Design and Production

Engineering,

Petrou Ralli & Thivons 250, 12244 Aigaleo, Athens, Greece

Tel.: +30 2105381484, +30 6973249129

E-mail: e.leligkou@uniwa.gr, Leligou@gmail.com

SUMMARY

Eirini Eleni Tsiropoulou is currently an Assistant Professor at the Department of Electrical and Computer Engineering, University of New Mexico. She received her Diploma in ECE, MBA in techno-economics, and PhD in ECE from the National Technical University of Athens (NTUA) in 2008, 2010, and 2014, respectively. Her main research interests lie in the area of cyber-physical social systems and wireless heterogeneous networks, with emphasis on network modeling and optimization, resource orchestration in interdependent systems, reinforcement learning, game theory, network economics, and Internet of Things. Five of her papers received the Best Paper Award at IEEE WCNC in 2012, ADHOCNETS in 2015, IEEE/IFIP WMNC 2019, INFOCOM 2019 by the IEEE ComSoc Technical Committee on Communications Systems Integration and Modeling, and IEEE/ACM BRAINS 2020. She was selected by the IEEE Communication Society - N2Women - as one of the top ten Rising Stars of 2017 in the communications and networking field. She received the NSF CRII Award in 2019 and the Early Career Award by the IEEE Communications Society Internet Technical Committee in 2019.

Helen C. (Nelly) Leligou is currently associate professor at the department of Industrial Design and Production Engineering, University of West Attica. From 2007-2017, she acted as lecturer (until 2012) and then as associate professor at University of Applied Sciences of Central Greece. In parallel, she is acting as senior consultant and senior project manager for IT both Large (Netcompanies-Intrasoft) and SMEs (Synelixis Solutions, ThinGenious, OTE Academy) companies in the ICT field. Her research interests lie mainly in the areas of Information and Communication Technologies including a) routing protocols and trust management in Wireless Sensor Networks, b) control plane technologies in broadband networks including HFC, PON, WDM metro and core networks and c) industrial, embedded and network system design and development. *Currently*, she is working on block-chain technologies, IoT enabled systems for various application sectors including e-learning, energy efficiency and agri-food supply chain. Her research results have been published in more than 150 scientific journals

and conferences. She has participated in several EU-funded ACTS, IST, ICT and H2020 research projects in the above areas. She has acted **as proposals' evaluator** for a) EU EASME unit (INNOSUP-1 call), b) H2020-Fractals Open calls, c) PRIMA initiatives and d) Enterprise Ireland – Career Fir programme, e) ONTOCHAIN open call, f) REACH project open calls, while she has also participated in FI-ADOPT and H2020 DIATOMIC projects that issued open call to push the commercialisation of specific technologies and as **project reviewer** for EIT digital funded projects, for H2020 and Horizon Europe projects in the above mentioned fields.

EDUCATION

1/1998–5/2002: Ph.D., (Excellent) Telecommunications Laboratory, Electrical and Computer Engineering Dept., NTUA, Greece. Thesis title: "New methods for access control in broadband networks", supervised by Prof. N. Mitrou.

9/1990–7/1995: Dipl.-Ing., Electrical & Computer Engineering, NTUA, Greece. Thesis title: "Design of an Integrated Component for the Implementation of the SAR 3/4 Protocol", supervised by Prof. G. Stassinopoulos.

FOREIGN Languages

- English (proficient user)
- French (independent user)

PROFESSIONAL EXPERIENCE

6/2008–today: Independent contractor to research institutes, public organizations and private companies both SME (Synelixis Solutions S.A.), startups (ThinGenious) and large IT companies (Intrasoft International) undertaking RTD projects in the fields of communications networks, IT systems tackling

security as well as project boosting innovation activities.

energy efficiency, addressing societal challenges like migration and food

11/2018—today: Associate professor at the University of West Attica. She is active in the research area of data networks, digital design, IoT blockchain technologies and artificial intelligence/federated learning.

6/2014–Oct. 2017: Assistant professor at the Technological Educational Institute of Sterea Ellada (former TEI of Halkida). She is active in the research area of sensor networks, optical networks and Future Internet architectures.

10/2007–5/2014: Lecturer of the Technological Educational Institute of Halkida (TEIHAL). She is active in the research area of sensor networks, designing and evaluating novel trust management systems and routing protocols for large dense sensor networks and reconfigurable sensor nodes. She participates (acting also as WP leader) in FP7- AWISSENET, ARTEMIS- SMART and FP7-VITRO projects as well as in national research projects.

9/1997–9/2007: Research associate at the Telecommunications Laboratory of the National Technical University of Athens (NTUA). She has participated in several EU research programs in the areas of broadband networking (ACTS-ATHOC, AROMA, IST-DAVID, PRO3, GIANT, NOBEL I, NOBEL II, MUSE I, MUSE II). She has studied medium access control protocols for Hybrid Fiber Coaxial systems, for Passive Optical Networks operating at gigabit rate (GPON technology), for metropolitan WDM rings as well as the allocation of the protocol processor resources targeting (in all systems) the efficient support of different Quality of Service Levels. From 2004-2007, she is investigating control architectures for Optical Burst-switched Networks as well as the

design of a generic scheduling block for a next-generation DSLAM. In the framework of the previously mentioned EU-projects, she was responsible for the implementation in hardware (mainly in FPGA but also in ASIC technology) of the designed and evaluated real-time control protocols.

EXPERIENCE IN EVALUATIONS

- Horizon Europe EUSPA Space4Green Project (2023)
- EIT digital projects (2022)
- H2020 platformUptake project review (April 2021)
- Career-FIT, Enterprise Ireland: Evaluator of proposals for young entrepreneurs (March 2021).
- REACH: evaluator for open call proposals, February 2021.
- ONTOCHAIN: evaluator of proposals prepared by SMEs and Academic actors for blockchain related solutions targeting different verticals February 2021.
- Career-FIT, Enterprise Ireland: Evaluator of proposals for young entrepreneurs (March 2020).
- PRIMA: Call: Section 1 Nexus 2019, CSA Topic 1.4.2: Platform for mapping and capitalisation of results and best practices from past and on-going projects related to farming system, water and food in the Mediterranean Area, 2019
- H2020-INNOSUP-1 call: Cluster facilitated projects for new industrial value chains- The funded projects would issue open call for SMEs to produce innovative applications in new value chains.
- FI-PPP FRACTALS- Future Internet Enabled Agricultural Applications: FRACTALS is one
 of the 16 Accelerator projects within the FI-PPP Phase 3that aim to promote the
 creation of innovative products and services making use of FIWARE platform. The
 Accelerator project financially supported with 80 million EUROs, SMEs and Web
 Entrepreneurs to build innovative and sustainable applications based on the FIWARE
 technology. FRACTALS launched one open call and it is expected to fund 50-60subprojects.
- National calls: General Secretariat of Research and Technological Innovation

TEACHING EXPERIENCE

- Associate professor at University of West Attica (Dec. 2019 today). Courses taught: "Computer Networks", "Internet technologies".
- Assistant professor at Piraeus University of Applied Sciences (Nov. 2017- today). Courses taught: "Computer Networks", "Internet technologies".
- Assistant professor/lecturer at TEI of Sterea Ellada (2007-2017). Courses taught: "Computer Networks", "Web applications", "Digital Systems I – Laboratory course", "Digital Systems II – Laboratory course", "Object oriented programming- Laboratory course".
- Visiting lecturer at National Technical University of Athens (2006-2008). Courses taught: MSc programme on "techno-economic systems": "Enterprise information systems", "Telecommunications market: technologies and operation".
- Visiting lecturer at University of Peloponnese (2006-2007). Courses taught: "Control Plane-Resource allocation architectures"
- Visiting assistant professor at University of Sterea Ellada (2005-2006). Courses taught: "Computer architecture", "Data Networks"

• Teaching associate at TEI of Piraeus (2000-2005). Courses taught: "Computer Networks", "Internet protocols".

RESEARCH RESULTS AND PUBLICATIONS

She has published more than 50 articles in international journals, more than 75 in conferences (more than 10 invited), and 9 more in book chapters and she has been a co-author in 2 books (in greek).

Her work has been cited more than 2600 times (h-index: 20 according to google scholar).

Participation in Research and Innovation Projects

H2020- SILVANUS1/10/202130/9/2025

The SILVANUS project brings together a large consortium of 49 interdisciplinary experts from four continents to combat the threat of forest fires and improve forest resilience against climate change. The key output of the project is the release of a climate resilient forest management platform to prevent and suppress forest fire. SILVANUS relies on environmental, technical and social sciences experts to support regional and national authorities responsible for wildfire management in their respective countries. SILVANUS scientists and research engineers will aid the civil protection authorities to efficiently monitor forest resources, to evaluate biodiversity, to generate more accurate fire risk indicators, and promote safety regulations among the local population affected by wildfire through awareness campaigns.

Involvement: Team leader for Netcompany- Intrasoft group, leading the integration of the platform and WP leader

Horizon Europe DAFNEplus 1/7/2022-

30/6/2025

DAFNE+ is a decentralized platform for fair creative content distribution empowering creators and communities through new digital distribution models based on digital tokens.

Involvement: Team leader for Netcompany- Intrasoft group, leading the user requirement co-creation activities and the development of the blockchain functionalities and NFT platform to support the operation of the distributed autonomous organisations

H2020-FISHY project (1/9/2020-31/8/2023)

Project topic: FISHY (A coordinated framework for cyber resilient supply chain systems over complex ICT infrastructures) aims at designing, developing, validating and demonstrating a coordinated framework for cyber resilience provisioning to guarantee a trusted supply chain of ICT systems, built upon distributed, dynamic, and often fundamentally insecure and heterogeneous ICT infrastructures. FISHY proposes a novel platform able to securely orchestrate a supply chain consisting of complex ICT systems end-to-end – from the IoT ecosystem and the edge and cloud infrastructure over to the networking infrastructure connecting – while enabling functionalities related to risks and vulnerabilities management, accountability and mitigation strategies as well as security metrics and evidence-based security assurance.

Involvement: Team leader for Synelixis Solutions

H2020-ASSET project (May 2019-April 2021)

Project topic: ASSET project anticipates to deliver "a holistic and Scalable Solution for Research, Innovation and Education in Energy Transition". It creates the tools to accelerate education and training is subjects relevant to the energy transition including SSH aspects and in parallel engages all types of actors (policy makers, industrial partners, universities and the society at large) in its ecosystem towards the realization of the sustainable energy society.

Involvement: Scientific Coordinator

H2020-NADINE (Nov. Project topic: ICT tools (including Artificial Intelligence enabled components) supporting migrants in job finding.

2018- Oct. 2021)

Involvement: Specialist- external contractor of Intrasoft International,

Luxemburg

H2020-ICT-MaTHiSiS 2016-today **Project topic:** MaTHiSiS is an educational platform providing every type of learner, in every type of setting, on the device they have at their disposal, with a bespoke, individualised learning experience that is adapted to their personal requirements. This is achieved primarily through personalization and adaptation in real time to the learner's affect state detected based on sensor reading and artificial intelligence.

Involvement: Main researcher for OTE Academy

H2020-EE-GAIA 2016-today Project topic: The Green Awareness in Action (GAIA) project is a European project in the frame of Horizon2020 programme which focuses on the educational community, faculty, staff, students and parents at various levels of education, from primary and secondary to high schools and universities. GAIA creates an innovative ICT ecosystem (including web-based, mobile, social and sensing elements) to gather energy efficiency relevant measurements from IoT devices and represents them in a manner that triggers behavioural change towards more efficient use of resources.

Involvement: Main researcher

TEI of Sterea Ellada, Student Internship Programme 2010-today

Project topic: Coordination of TEI of Sterea Ellada business relations and match-making with students of the Electrical Engineering department to carry out their obligatory internship and job training period in related job positions.

Involvement: Project Manager

FP7-Prosperity for All,

Project topic: Design and development of an Assistance on Demand platform for disabled people. The platform allows communication between those who provide assistance services of all kinds with persons 2014-2017 in need and their carers and has relied on the most modern webserver

technologies to support AAA accessibility.

Involvement: Platform design and deployment

H2020-FCT-**FORENSOR** (2015-2016) **Project topic:** Embedded software development for network nodes that can be covered / hidden to suit vulnerable environments (e.g. industrial).

Involvement: Team technical management

FI-PPP XI-FI project (9/2014-2016)	Project topic: Support of the development of a common platform for large-scale trials and service offering across Europe towards promotion of FI-PPP offerings
	Involvement: Design of Deployment and Configuration Adapter
Archimedes III- subproject 8 (2011-2015)	Project topic: Trust Management and Routing in Large and Dense Wireless Sensor Networks Involvement: Study of applications of sensor networks, design of routing protocols for large and dense sensor networks
Archimedes III- subproject 4 (2011-2015)	Project topic: Dynamic Resource Allocation in next Generation WDM Involvement: Optical Networks/Design and Implementation of MAC controller
ARTEMIS – SMART (2011- 2013)	Project topic: Secure, Mobile visual sensor networks ARchiTecture Involvement: Design of protocols for the reconfiguration of sensing devices
EXECHON (2011-2014)	Project topic: Vehicular ad-hoc networks and applications Involvement: Design of applications for vehicular networks based on IEEE 802.11p protocols
FP7-ICT- 257245 VITRO (2010–2012)	Project topic: Virtualized dlsTRibuted Platforms of smart Objects Involvement: Analysis of sensor network applications, design and evaluation of RPL –compatible routing solutions
FP7-ICT- AWISSENET (2007–2010)	Project topic: Ad-hoc personal area network & Wireless Sensor SEcure NETwork Involvement: Design and evaluation of trust-aware geographical routing protocol
NOBEL I, II (2004 – 2007)	Project topic: Next generation Optical networks for Broadband European Leadership Involvement: Design and implementation in FPGA technologies of resource allocation protocols for Wide Area WDM networks
MUSE I, II (2004 – 2007)	Project topic: Multi Service Access Everywhere Involvement: Design and implementation in FPGA technologies of task scheduler for a high-throughput Access Multiplexer
IST-GIANT - (2002- 2005)	Project topic: Gigabit Passive Optical Network s(PON) Involvement: Design and implementation in FPGA technologies of FSAN compliant Mac protocol
IST PRO3 (2000-2002)	Project topic: Protocol processor design and implementation in ASIC technologies Involvement: Design and implementation of task scheduler and shaper supporting both ATM and IP traffic
IST DAVID (2000-2002)	Project topic: Metropolitan interconnected WDM rings Involvement: Design and implementation in FPGA technologies of dynamic MAC protocols supporting 32 wavelengths and Tb/s throughput
ACTS AROMA (1998-1999)	Project topic: Hybrid Fiber coaxial systems Involvement: Design and implementation in FPGA technologies of dynamic MAC protocols

PARTICIPATION IN STANDARDIZATION

 Th. Zahariadis, H. C. Leligou, P. Karkazis, P. Trakadas, S. Maniatis, "A Trust Framework for Low Power and Lossy Networks", Internet-Draft submitted to IETF Networking Working Group, ROLL subgroup, 30 April 2009.

SERVICES TO the SCIENTIFIC COMMUNITY

- Member of the Editorial board of
 - o IEEE IT professional (from Jan. 2023)
 - "Simulation Modelling Practice and Theory" May 2021 till now
 - o "INFORMATION" journal (mdpi)
 - and Technical Program Committee of conferences: VisionNet-2014, AICT 2008, AccessNets- 2009, AccessNets- 2008, TEMU 2010, TEMU 2012, UCMedia 2010, 9th WSEAS Int. Conf. on Applied Informatics and Communications, WCI-2015 Third International Symposium on Women in Computing and Informatics (WCI-2015), ICSNC2015, Global IoT Summit 2017.

• Reviewer for international journals and magazines

- IEEE Communication Letters,
- o IEEE Communication Magazine,
- IEEE Wireless Magazine,
- IEEE Journal of Lightwave Technology
- Elsevier Computer Networks,
- Elsevier Optical Switching and Networking,
- Elsevier, Transactions on Emerging Telecommunications Technologies
- OSA-Journal of Optical Networking,
- IEE Proc. Communications,
- Wireless Networks
- Sensors
- Future Internet (mdpi)
- Wireless Personal Communications (Springer)
- Hindawi, World Scientific Journal
- o Int. Journal of Physical Sciences
- Organisation of special issues in journals "energies", "Frontiers in Blockchain", "sensors", Information
- Organisation of workshops (e.g. in the framework of IWSSIP 09, Dece2010, and ELMAR 2008)
- Conference organisation as Publicity Chair in AICT 2008 and proceedings chair in IWSSIP09

PUBLICATION LIST

JOURNAL PUBLICATIONS

- 1. M. Xevgenis, D. Kogias, P. Karkazis, **Helen C. Leligou**, "Addressing ZSM security issues with blockchain technology", Future Internet 2023, 15, 129. https://doi.org/10.3390/fi15040129.
- Kiriakos Alexiou, Efthimios G. Pariotis, Helen C. Leligou, «Sensor data quality in ships: A Time series forecasting approach to compensate missing data and drift in readings of STW sensors», Designs, 2023.
- 3. Stamatia F. Drampalou, Nikolaos I. Miridakis, Helen C. Leligou, Panagiotis Karkazis, «A Survey

- on Optimal Channel Estimation Methods for RIS-aided Communication Systems», Signals. 2023, doi: 10.3390/signals4010012.
- 4. Lazaropoulos, A. G., and Leligou, H. C. (2023). Artificial Intelligence, Machine Learning and Neural Networks for Tomography in Smart Grid – Performance Comparison between Topology Identification Methodology and Neural Network Identification Methodology for the Distribution Line and Branch Line Length Approximation of Overhead Low-Voltage Broadband over Power Lines Network Topologies. Trends in Renewable Energy, 9, 34-77. DOI: 10.17737/tre.2023.9.1.00149
- Panagiotis A. Karkazis *, Konstantinos Railis, Stelios Prekas, Panagiotis Trakadas, Helen C. Leligou, «Intelligent and secure action optimization service for reliable early emergency response orchestration», Signals 2022, 3(3), 587-610; https://doi.org/10.3390/signals3030036.
- 6. Panagiotis Karkazis, Dimitris Uzunidis, Panagiotis Trakadas and Helen C. Leligou, "Machine Learning Resource Optimization Enabled by Cross Layer Monitoring", IEEE IT professional, Sept.-Oct. 2022, pp. 69-74, vol. 24, DOI Bookmark: 10.1109/MITP.2022.3194129.
- 7. Kiriakos Alexiou, Efthimios G. Pariotis, Helen C. Leligou and Theodoros C. Zannis, "Towards data-driven models in prediction of a Ship's Performance (Speed-Power) in actual Seas. A comparative study between modern approaches", Energies 2022, 15, 6094. https://doi.org/10.3390/en15166094.
- 8. Athanasios G. Lazaropoulos and **Helen C. Leligou**, Fiber Optics and Broadband over Power Lines in Smart Grid: A Communications System Architecture for Overhead High-Voltage, Medium-Voltage and Low-Voltage Power Grids," Progress In Electromagnetics Research B, June 2022, Vol. 95, page 185-205, 2022.
- John Christidis, Panagiotis A. Karkazis, Papadopoulos Perikles and Helen C. (Nelly) Leligou, «Decentralized blockchain-based IoT data marketplaces», Journal of Sensor and Actuator Networks, June 2022, Vol. 11, pp.39, https://doi.org/10.3390/jsan11030039.
- 10. George Kapnissis, George K. Vaggelas, **Helen C. Leligou**, Apostolis Panos, Maria Doumie, "Blockchain adoption from the Shipping industry: An empirical study", Elsevier, Maritime Transport Research, Vol. 3, 2022, https://doi.org/10.1016/j.martra.2022.100058.
- 11. N. Theocharis, **H. C. Leligou**, and D. Tseles, "Innovation for People with Disabilities in Hospitality Industry: A Theoretical Approach", HighTech and Innovation Journal, Vol. 3, No. 1, March, 2022, pp. 102-114, http://dx.doi.org/10.28991/HIJ-2022-03-01-010.
- 12. Konstantinos Kotrotsios, Anastasios Fanariotis, **Helen-Catherine Leligou** and Theofanis Orphanoudakis, "Design Space Exploration of a Multi-model Al-based Indoor Localization System", Sensors 2022.
- 13. Andrew R. Short, Theofanis G. Orfanoudakis, **Helen C. Leligou**, "Improving Security and Fairness in Federated Learning systems", International Journal of Network Security and its applications, Vol.13, No. 6, 2021, DOI: 10.5121/ijnsa.2021.13604
- 14. Dimitris Uzunidis, Panagiotis Karkazis, Chara Roussou, **Helen-Catherine Leligou**, Charalampos Patrikakis, "Intelligent performance prediction: the use case of a Hadoop cluster", Electronics, Vol. 10(21), pp. 2690, 2021, https://doi.org/10.3390/electronics10212690.
- Nikolaos I. Miridakis, Theodoros A. Tsiftsis, Guanghua Yang, Panagiotis Karkazis, Helen C. Leligou, "Semi-Blind Multiuser Detection Under the Presence of Reconfigurable Intelligent Surfaces", IEEE Wireless Communications Letters, 2021, ISSN: 2162-2337, DOI: 10.1109/LWC.2021.3121605
- 16. Constantinos S. Psomopoulos Kyriaki Kiskira, Konstantinos Kalkanis, Helen C. Leligou and Nickolas J. Themelis, THE ROLE OF ENERGY RECOVERY FROM WASTES IN THE DECARBONIZATION EFFORTS OF THE EU POWER SECTOR, IET Renewable Power Generator, Sept. 2021, DOI: 10.1049/rpg2.12315.
- 17. Michael Xevgenis; Dimitrios G. Kogias; Ioannis Christidis; Charalampos Patrikakis; Helen C.

- **Leligou**, "Evaluation of a blockchain-enabled resource management mechanism for NGNs", International Journal of Network Security & Its Applications (IJNSA) Vol.13, No.5, September 2021, DOI: 10.5121/ijnsa.2021.13501.
- 18. **Helen C. Leligou**, Despina Anastasopoulos, Nicholas Vretos, Vassilis Solachides, Eszter Kantor, Elodie Girardet, Anita Montagna, Fotini Vlahaki, Maria Tountopoulou, "Experiences and lessons learnt from the evaluation of ICT tools for and with migrants", Social Sciences, 2021, 10, 344. https://doi.org/10.3390/socsci10090344
- 19. Alexiou Kiriakos, Pariotis G. Efthimios, Zannis Theodoros, and **Leligou C. Helen,** "Prediction of a ship's operational parameters using artificial intelligence technics", Journal of Marine Science and Engineering, 2021, 9(6), 681; https://doi.org/10.3390/jmse9060681
- 20. **Helen Leligou**, Despina Anastasopoulos, Anita Montagna, Vassilis Solachidis, Nicholas Vretos, "Combining ICT technologies to serve societal challenges", Science, Technology and Engineering Systems Journal (ASTESJ), Special Issue on Multidisciplinary Sciences and Engineering, 2021 Vol. 6, N. 1, 1319-1327 (2021); DOI: 10.25046/aj0601151.
- 21. **H. C. Leligou**, F. Ponci, R. de Rosa, P. Karkazis and C.S. Psomopoulos, "Designing an innovative educational toolbox to support the transition to new technologies", SSN Social Sciences, Springer Ed., 2021.
- 22. V. Yfantis, **E. Leligkou**, K. Ntalianis, "Blockchain a revolutionary tool of trust in the public sector" Journal Public Money & Management, December 2020, DOI 10.1080/09540962.2020.1821514.
- 23. Michael Xevgenis, Dimitrios G. Kogias, Panagiotis Karkazis, **Helen C. Leligou** and Charalampos Patrikakis, "Application of Blockchain Technology in dynamic resource management of Next Generation Networks", Information, 2020.
- 24. E. Gryparis, P. Papadopoulos, **H-C. Leligou** and C.S. Psomopouloς, «Electricity demand and carbon emission in power generation under high penetration of electric vehicles. An EU perspective", Energy Reports Volume 6, Supplement 6, November 2020, Pages 475-486.
- 25. A. Panos, G. Kapnissis, **H.C. Leligou**, «Blockchain and DLTs in maritime industry: Potential and barriers», European Journal of Electrical Engineering and Computer Science, Vol. 4, No 8, October 2020, DOI: 10.24018/ejece.2020.4.5.243.
- 26. Panagiotis Trakadas*, Pieter Simoens, Panagiotis Gkonis *, Lambros Sarakis, Angelos Angelopoulos, Alfonso Ramallo, Antonio Skarmeta, Christos Trochoutsos, Daniel Calvo, Tomas Pariente, Keshav Chintamani, Izaskun Fernandez, Aitor Arnaiz Irigaray, Josiane Xavier Parreira, Pierluigi Petrali, Nelly Leligou, Panagiotis Karkazis, "An Artificial Intelligence based Collaboration Approach in Industrial IoT Manufacturing: Key Concepts, Architectural Extensions and Potential Applications", Sensors 2020, 20(19), 5480; doi:10.3390/s20195480
- 27. V. Yfantis, **E. Leligkou**, K. Ntalianis, "Blockchain a revolutionary tool of trust in the public sector" Journal Public Money & Management, December 2020, DOI 10.1080/09540962.2020.1821514.
- 28. Panagiotis Trakadas, Panagiotis Karkazis, **Helen-Cathrine Leligou**, Theodore Zahariadis, Felipe Vicens, Arturo Zurita, Pol Alemany, Thomas Soenen, Carlos Parada, Jose Bonnet, Eleni Fotopoulou, Anastasios Zafeiropoulos, Evgenia Kapassa, Marios Touloupou, Dimosthenis Kyriazis, «Comparison of Management and Orchestration solutions for the 5G Era», Journal of Sensor and Actuator Networks, 2020, 2020, Vol. 9, No 4; doi:10.3390/jsan9010004.
- 29. Maria Polychronaki, Nick Kaftantzis, Michael Xevgenis, Dimitrios Kogias, and **Nelly Leligou**, "(Demystifying) Blockchain Development: The BLER Use Case", CUTTER BUSINESS TECHNOLOGY JOURNAL, 2019, pp. 26-31.
- 30. Kogias, Dimitrios; **Leligou, Helen-Catherine**; Xevgenis, Michael; Polychronaki, Maria; Katsadouros, Evangelos; Loukas, George; Heartfield, Ryan; Patrikakis, Charalampos, "Towards a Blockchain-enabled Crowdsourcing platform", IEEE IT Professional, Sept. 2019, Vol. 21, No. 5, pp. 18-25.
- 31. Nicholas Vretos, Petros Daras, Stelios Asteriadis, Enrique Hortal, Evangelos Spyrou, Helen C.

- **Leligou**, Panagiotis Karkazis, Panagiotis Trakadas, Kostantinos Assimakopoulos, "Exploiting sensing devices availability in AR/VR deployments to foster engagement", 10.1007/s10055-018-0357-0 Virtual Reality Journal, Springer, 2018.
- 32. **Helen C. Leligou**, Athanasoulis Panagiotis, Gianna Tsakou, Gregg Vanderheiden, Katerina Touliou, Otilia Kocsis, Nikos Katevas, «Generic Platform for Registration and Online Offering of Assistance on Demand (AoD) Services in an Inclusive Infrastructure», Universal Access in the Information Society, 2017
- 33. Eleftherios Tsampasis, Lambros Sarakis, **Helen Catherine Leligou**, Theodore Zahariadis and John Garofalakis, «Novel Simulation Approaches for Smart Grids», Journal of Sensor and Actuator Networks, June 2016, 5(3), 11; doi:10.3390/jsan5030011.
- 34. Lambros Sarakis, Theofanis Orphanoudakis, **Helen C. Leligou**, Stamatis Voliotis, Artemis Voulkidis, "Providing Entertainment Applications in VANET environments", IEEE Wireless Communications, vol. 23, no. 1, pp. 30-37, February 2016, doi: 10.1109/MWC.2016.7422403.
- 35. P. Karkazis, P. Trakadas, Th. Zahariadis, I. Chatzigiannakis, M. Dohler, A. Vitaletti, A. Antoniou, H. C. Leligou, L. Sarakis, "Resource and Service Virtualisation in M2M and IoT Platforms", International Journal of Intelligent Engineering Informatics, Inderscience Publishers, Vol. 3, 2015, pp. 205-224.
- 36. Panagiotis Karkazis, Lambros Sarakis, Terpsichori-Eleni N. Velivassaki, Panagiotis Trakadas, Helen C. Leligou, Theodore Zahariadis, "Energy-Efficient Trust Management Scheme in Mobile Wireless Sensor Networks" Open transactions on Wireless Sensor Networks, Volume 1, Number 1, pp.47-62, 2014.
- 37. **Helen C. Leligou**, Periklis Chatzimisios, Lambros Sarakis, Theofanis Orphanoudakis, Panagiotis Karkazis, Theodore Zahariadis, "An 802.11p compliant system prototype supporting road safety and traffic management applications", International Journal of Wireless Networks and Broadband Technologies, January-March 2014.
- 38. Evangelos A. Kosmatos, Theofanis G. Orfanoudakis, Helen C. Leligou, Eleftherios Tsampasis, "Traffic characterization for flexible service delivery in next-generation converged access networks", International Journal of Computers and Communications, Issue 4, Vol. 7, 2013, pp. 107-115.
- 39. Panagiotis Karkazis, Panagiotis Trakadas, Helen C. Leligou, Lambros Sarakis, Terpsichori Velivassaki, Ioannis Papaefstathiou, Theodore Zahariadis, "Evaluating routing metric composition approaches for QoS differentiation in low power and lossy networks", Springer, Wireless Networks, Vol. 19, Issue 6 (2013), Page 1269-1284, DOI 10.1007/s11276-012-0532-2.
- 40. **H.C. Leligou,** P. Trakadas, S. Maniatis, P. Karkazis, T. Zahariadis, "Combining trust with location information for routing in wireless sensor networks", Wireless communications and Mobile computing, Wiley, Vol. 12, 2012, pp. 1091–1103, DOI: 10.1002/wcm.1038.
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