

Dr. Elias Iosif

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Experience

1. Associate Head

Department of Digital Innovation, School of Business, University of Nicosia, Cyprus

www.unic.ac.cy

(Dec. 2021 – present)

2. Faculty member: Assistant Professor

Department of Digital Innovation, School of Business, University of Nicosia, Cyprus

and

Department of Management and MIS, School of Business, University of Nicosia, Cyprus.

www.unic.ac.cy

(Sep. 2019 – present)

Summary of main activities:

- (a) Teaching: courses focusing on blockchain technologies (mainly technical)
- (b) Scientific lab co-leader of the Distributed Ledgers Research Centre (DLRC)
- (c) Management of team responsible of funded research (mainly EU projects):
 - i. Establishment of partnerships (consortia formulation)
 - ii. Development proposals/tenders (including budgeting)
 - iii. Execution of projects
- (d) Advisor/co-advisor of MSc and PhD theses

Note: Transfer from the Department of Management and MIS to the Department of Digital Innovation when the latter was established on Fall 2020 under the School of Business.

3. Senior researcher & project manager, **Blockchain Initiative–Institute For the Future, University of Nicosia, Cyprus.**

www.unic.ac.cy (Dec. 2017 – present)

4. XRPL Grants Judge

XRPL Grants Programme: <https://xrplgrants.org/>

Ripple

<https://ripple.com/> (Oct 2021 – Feb 2022)

5. Course instructor, **MSc in Digital Currency, University of Nicosia, Cyprus.**

www.unic.ac.cy (July 2018 – Aug. 2019)

6. Senior machine learning engineer, **Behavioral Signal Technologies, USA.**

www.behavioralsignals.com (Apr. 2017 – Dec. 2017)

7. Post-doctoral researcher, **Institute of Communications and Computer Systems, Athens, Greece and School of Electrical and Computer Engineering, National Technical University of Athens, Greece.**

(Jan. 2016 – Mar. 2017)

8. Part-time co-teaching under short-term contract **School of Electrical and Computer Engineering, National Technical University of Athens, Greece.** (Dec. 2016 – Mar. 2017)

9. Part-time co-teaching under short-term contract **School of Electrical and Computer Engineering, National Technical University of Athens, Greece**. (Jul. – Aug. 2016)
10. Post-doctoral researcher, **School of Electrical and Computer Engineering, National Technical University of Athens, Greece** and **“Athena” Research and Innovation Center, Athens, Greece**. (Jan. 2014 – Nov. 2015)
11. Visiting researcher, Signal Analysis and Interpretation Laboratory (SAIL), **University of Southern California (USC), Los Angeles, USA**. (Feb. 2014 – Apr. 2014)
12. Internship, **AT&T Labs, New York, USA**. (Sep. 2013 – Dec. 2013)
13. Associate researcher, Department of Electronic and Computer Engineering, **Technical University of Crete, Chania, Greece**. (Sep. 2009 – Sep. 2013)
14. Teaching assistant (in total, 4 courses), Department of Electronic and Computer Engineering, **Technical University of Crete, Chania, Greece**. (several time periods from 2006 to 2013)
15. Associate researcher, Software and Knowledge Engineering Laboratory (SKEL), Institute of Informatics and Telecommunications (IIT), **National Center for Scientific Research “DEMOKRITOS”, Athens, Greece**. (Nov. 2008 – Sep. 2009)
16. Research assistant, Department of Electronic and Computer Engineering, **Technical University of Crete, Chania, Greece**. (Jan. 2005 – Nov. 2008)

Education

Doctor of Philosophy (PhD)

School of Electronic and Computer Engineering, Technical University of Crete, Greece

Thesis title: *“Network-Based Distributional Semantic Models”*

October 2013

Master of Science (MSc)

Department of Electronic and Computer Engineering, Technical University of Crete, Greece

Thesis title: *“Unsupervised Induction of Semantic Classes Using Semantic Similarity Metrics”*

September 2007

Five-year Diploma (Dipl.-Ing.)

Note: Equivalent to Master of Science

Department of Electronic and Computer Engineering, Technical University of Crete, Greece

Thesis title: *“Automatic Derivation of Ontologies from Text”*

March 2005

Areas of Expertise

▷ **Natural language processing and computational linguistics:** language models; large language models (LLMs); language models based on lexical and semantic features; distributional semantic models; compositional models of meaning; multimodal/crossmodal semantic models; socio-affective analysis of text (e.g., sentiment analysis); cognitively-motivated semantic models.

- ▷ **Information extraction:** named entity recognition; relation extraction.
- ▷ **Speech processing:** analysis of the emotional content of speech.
- ▷ **Spoken dialogue systems:** corpus-based grammar induction for spoken language understanding; identification of miscommunication spots in dialogues.
- ▷ **Machine learning:** feature engineering (e.g., feature selection, dimensionality reduction, regularization); traditional parametric and non-parametric models (e.g., Bayes classifiers, Support Vector Machines, CART); deep neural networks (MLPs, RNNs, transformers).
- ▷ **Blockchain:** blockchain based applications; scalability on blockchain and consensus algorithms; cross-blockchain interoperability; programmable trust (e.g., smart contracts, oracles); integration of artificial intelligence and machine learning models with blockchain technologies.
- ▷ **Metaverse (AI, Blockchain parts):** development of machine learning models towards the development of the social capabilities of the Metaverse-related; integration of such models with blockchain (beyond payments): towards self-sovereign digital identities, fusion of different models (e.g., classifiers) via decentralized techniques.

Professional Certificates

1. Faculty Professional Development Certificate:
“Teaching and Learning Theory and Practice”, 2020

Funded Research / Projects

1. **“CY-EBSI – Establishment of EBSI node(s) in Cyprus”**
Funded by: European Commission, Innovation and Networks Executive Agency (Program:CEF)
Period: May 2021 – April 2023
2. **“EU Blockchain Observatory and Forum” (renewed consortium, 2020)**
Funded by: European Commission
Website: <https://www.eublockchainforum.eu>
3. **“A Knowledge Alliance for Blockchain in Academic, Entrepreneurial and Investment Training” (DLT4ALL)**
Funded by: European Commission
Website: <https://dlt4all.eu>
Period: Nov. 2018 – Oct. 2021
4. **“User-oriented, secure, trustful and decentralised social media” (EUNOMIA)**
Funded by: European Commission
Website: <https://www.eunomia.social>
Period: Dec. 2018 – Nov. 2021
5. **“University Blockchain Research Initiative”**
Funded by: Ripple
Website: <https://ubri.ripple.com/>
Period: 2019 – present

6. **"Prosumer AwaRe, Transactive Markets for Valorization of Distributed flexibility enabled by Smart Energy Contracts" (PARITY)**
Funded by: European Commission
Website: <https://parity-h2020.eu/>
Period: Oct. 2019 – present
7. **"Pooling SME Adoption and Deployment of Blockchain and Other DLTs" (BLOCKPOOL)**
Funded by: European Commission
Website: <https://blockpool.eu>
Period: July 2019 – June 2021
8. **"BabyRobot: Child-Robot Communication and Collaboration" (BABYROBOT)**
Funded by: European Commission
Website: <http://www.babyrobot.eu/>
Period: Jan. 2016 – Mar. 2017
9. **"Machine-Aided Methods for Spoken Dialogue System Enhancement and Customization for Call-Center Applications" (SPEDIAL)**
Funded by: European Commission
Website: <http://www.spedial.eu/>
Period: Jan. 2014 – Nov. 2015
10. **"BabyAffect: Affective and Behavioral Modeling of Early Childhood Lexicalizations and Communicative Functions with Application to Autism Spectrum Disorders and Language Delay Detection" (BabyAffect)**
Funded by: General Secretariat for Research and Technology, Greece
Website: <https://sites.google.com/site/babyaffectproject/>
Period: Feb. 2014 – Oct. 2015
11. **"Language Resources for Portable Multilingual Spoken Dialogue Systems" (PORTDIAL)**
Funded by: European Commission
Website: <http://www.portdial.eu/>
Period: June 2012 – May 2014
12. **"Unsupervised Semantic Relationship Acquisition by Humans and Machines: Application to Automatic Ontology Creation"**
Funded by: Basic Research Programme, Technical University of Crete, Greece
Period: Mar. 2010 – Aug. 2011
13. **"Bootstrapping Ontology Evolution with Multimedia Information Extraction" (BOEMIE)**
Funded by: European Commission
Website: <http://www.boemie.org/>
Period: Nov. 2008 – Sep. 2009
14. **"Multimedia Understanding through Semantics, Computation and Learning" (MUSCLE)**
Funded by: European Commission
Website: <http://muscle.ercim.eu/>
Period: Oct. 2005 – Feb. 2008
15. **"Human Input that Works In Real Environments " (HIWIRE)**
Funded by: European Commission
Website: <http://cvsp.cs.ntua.gr/projects/bin/view/HIWIRE/WebHome>
Period: Apr. 2005 – Sep. 2005

Publications

Profile in Google scholar: <https://scholar.google.com/citations?hl=en&user=8qzHj5wAAAAJ>

Citations in Google scholar: 1300

Citation indices in Google scholar: h -index=19, $i10$ -index=38

Journal Articles

1. Andreas-Polyvios Delladetsimas, Stamatis Papangelou, Elias Iosif. "Integrating Blockchain with IoT: A Review of Architectures and Marine Use Cases". *Computers*, Volume: 13, Number: 12, 2024.
2. Elias Iosif, Leonidas Katelaris. "Integrating Machine Learning with Non-Fungible Tokens". *Computers*, Volume: 13, Number: 147, 2024.
3. Amir Salar Hajy Sheikhi, Elias Iosif, Oleg Basov, Ioanna Dionysiou. "SmartMinutes – A Blockchain-Based Framework for Automated, Reliable, and Transparent Meeting Minutes Management". *Big Data and Cognitive Computing*, Volume: 6, Number: 4, pp. 70630-70644, ISSN: 2504-2289, 2022.
4. Marios Touloupou, Elias Iosif, Klitos Christodoulou, Marinos Themistocleous. "Blockchain Consensus Algorithms: A Systematic Literature Review". *IEEE Access*, Volume: 10, pp. 70630-70644, print ISSN: 2169-3536, online ISSN: 2169-3536, 2022.
5. Evgenia Kapassa, Marinos Themistocleous, Klitos Christodoulou, and Elias Iosif. "Blockchain Application in Internet of Vehicles: Challenges, Contributions and Current Limitations". *Future Internet*, Volume 13, Issue 12, 2021.
6. Klitos Christodoulou, Elias Iosif, Antonios Inglezakis, Marinos Themistocleous. "Consensus Crash Testing: Exploring Ripple's Decentralization Degree in Adversarial Environments", *Future Internet*, Volume 12, Issue 3, 2020.
7. Marinos Themistocleous, Kypros Stefanou, Elias Iosif. "Blockchain in Solar Energy", *Cyprus Review*, Volume 30, Number 2, pp. 203-212, 2018.
8. Elias Iosif, Ioannis Klasinas, Georgia Athanasopoulou, Elisavet Palogiannidi, Spiros Georgiladakis, Katerina Louka, Alexandros Potamianos. "Speech Understanding for Spoken Dialogue Systems: From Corpus Harvesting to Grammar Rule Induction", *Computer Speech and Language*, Volume 47, January 2018, pp. 272-297, 2018.
9. Elias Iosif, Alexandros Potamianos. "Similarity Computation Using Semantic Networks Created From Web-Harvested Data", *Natural Language Engineering*, vol. 21, issue 01, pp. 49-79, Jan 2015.
10. Nikos Malandrakis, Alexandros Potamianos, Elias Iosif, Shrikanth Narayanan "Distributional Semantic Models for Affective Text Analysis". *IEEE Transactions on Audio, Speech and Language Processing*, vol. 21, issue 11, pp. 2379-2392, 2013.
11. Theodosios Moschopoulos, Elias Iosif, Leeda Demetropoulou, Alexandros Potamianos, Shrikanth Narayanan. "Towards the Automatic Extraction of Policy Networks using Web Links and Documents". *IEEE Transactions on Knowledge and Data Engineering*, vol. 25, issue 10, pp. 2404-2417, 2012.
12. Elias Iosif, Alexandros Potamianos. "Unsupervised Semantic Similarity Computation Between Terms Using Web Documents". *IEEE Transactions on Knowledge and Data Engineering*, vol. 22, no. 11, pp. 1637-1647, 2010.

Book Chapters, Edited Volumes

1. Andreas Vlachos, Klitos Christodoulou, Elias Iosif, Marinos Themistocleous. "An algorithmic model for the assessment of cryptocurrency regulation". In "Handbook of Blockchain Technology", pp. 211-225, 2025.
2. S. Ioannou, Soulla Louca, Charis Savvides, Elias Iosif. "Exploring the landscape of Tokenization: a comprehensive systematic literature review". In "Handbook of Blockchain Technology", pp. 108-126, 2025.
3. Andreas Vlachos, Klitos Christodoulou, Elias Iosif, Marinos Themistocleous. "An algorithmic model for blockchain maturity levels: a cross-country perspective". In "Handbook of Blockchain Technology", pp. 200-210, 2025.
4. Enrico Zanardo, Klitos Christodoulou, Elias Iosif. "Machine learning-based fraud detection in blockchain: a qualitative survey in IT, business, and finance sectors". In "Handbook of Blockchain Technology", pp. 292-310, 2025.
5. Elena A. Mourelatou, Elias Iosif, Eleftheria Galatou, Yiannis Sarigiannis, Manos C. Vlasίου, Lefteris Zacharia, Christos C. Petrou, "Application of Artificial Intelligence in Pharmaceutical Development". In "Novel Formulations and Future Trends" Amit Kumar Nayak and Kalyan Kumar Sen (Eds), Elsevier, 2024.
6. "Academic certificates issued on blockchain: The case of the University of Nicosia and Block.co". Marinos Themistocleous, Klitos Christodoulou and Elias Iosif. In "Supporting Higher Education 4.0 with Blockchain: Critical Analyses of Automation, Data, Digital Currency, and Other Disruptive Applications", Grazyna Paliwoda-Pekosz and Piotr Soja (Eds), Routledge, 2024.
URL: <https://www.taylorfrancis.com/chapters/edit/10.4324/9781003318736-8>
eBook: ISBN9781003318736
7. Enrico Zanardo, Gian Pio Domiziani, Elias Iosif, and Klitos Christodoulou, "Identification of Illicit Blockchain Transactions Using Hyperparameters Auto-tuning". In "Principles and Practice of Blockchains", Kevin Daimi, Ioanna Dionysiou, Nour El Madhoun (Eds), Springer, 2023.
8. Klitos Christodoulou, Leonidas Katelaris, Marinos Themistocleous, Panayiotis Christodoulou, Elias Iosif, "NFTs and the Metaverse Revolution: Research Perspectives and Open Challenges". In "Blockchains and the Token Economy Theory and Practice", Mary C. Lacity and Horst Treiblmaier (Eds), Springer ISBN: 978-3-030-95108-5, 2022.
9. Klitos Christodoulou, Elias Iosif, George M. Giaglis (Editors). "Proceedings of Decentralized 2019: The 3rd Annual Decentralized Conference on Blockchain and Cryptocurrency", Athens, Greece, 30 Oct.–01 Nov. 2019.
10. Elias Iosif, Georgios Petasis and Vangelis Karkaletsis, "Ontology Based Information Extraction Under a Bootstrapping Approach". In "Semi-Automatic Ontology Development: Processes and Resources", Maria Teresa Pazienza and Armando Stellato (Eds), IGI Global Inc., ISBN 9781466601888, 2012.
11. Vangelis Karkaletsis, Pavlina Fragkou, Georgios Petasis, Elias Iosif. "Ontology Based Information Extraction from Text". In "Knowledge-Driven Multimedia Information Extraction and Ontology Evolution", George Paliouras, Constantine Spyropoulos and George Tsatsaronis (Eds), Springer Verlag, vol. 6050, ISBN 978-3-642-20794-5, 2011.

Preprints

1. Elias Iosif, Klitos Christodoulou, Andreas Vlachos. "Web Mining for Estimating Regulatory Blockchain Readiness", Mar 2021.
Link: <http://arxiv.org/abs/2103.13235>
2. Elias Iosif, Klitos Christodoulou, Andreas Vlachos. "A Robust Blockchain Readiness Indexing", Jan 2021.
Link: <http://arxiv.org/abs/2101.09162>

Peer Reviewed Conference Publications

1. Klitos Christodoulou, Elias Iosif, Marinos Themistocleous, Andreas Vlachos. "Web Mining for Estimating Regulatory Blockchain Readiness". 20th European, Mediterranean and Middle Eastern Conference on Information Systems (EMCIS) , 11-12 Dec 2023.
2. Enrico Zanardo, Gianfranco d'Atri, Elias Iosif. "ChronoCode cloud programming". In Proc. of the 4th International Conference and Summer School on Numerical Computations: Theory and Algorithms, Calabria, Italy, 14-20 June 2023.
(presented at conference, pending publication by Springer)
3. Enrico Zanardo, Elias Iosif, Gianfranco d'Atri. "Chronostamp, a general-purpose runtime for data-flow computing in a distributed environment". In Proc. of the 4th International Conference and Summer School on Numerical Computations: Theory and Algorithms, Calabria, Italy, 14-20 June 2023.
(presented at conference, pending publication by Springer)
4. Enrico Zanardo, Klitos Christodoulou, Elias Iosif. "A new blockchain-based meritocratic marketplace for distributed machine learning model training". In Proc. of the 4th International Conference and Summer School on Numerical Computations: Theory and Algorithms, Calabria, Italy, 14-20 June 2023.
(presented at conference, pending publication by Springer)
5. Marios Touloupou, Klitos Christodoulou, Antonis Inglezakis, Elias Iosif, Marinos Themistocleous. "Benchmarking Blockchains: The case of XRP Ledger and Beyond". In Proc. of Hawaii International Conference on System Sciences (HICSS), Jan 7-10, 2022, Maui, Hawaii, USA.
6. Elias Iosif, Klitos Christodoulou, Andreas Vlachos. "Computation of Blockchain Readiness Under Partial Information". 18th European, Mediterranean and Middle Eastern Conference on Information Systems (EMCIS) , 08-09 Dec 2021.
7. Marios Touloupou, Klitos Christodoulou, Antonis Inglezakis, Elias Iosif, Marinos Themistocleous. "Towards a Framework for Understanding the Performance of Blockchain". In Proc. of 3rd Conference on Blockchain Research & Applications for Innovative Networks and Services (BRAINS), Sep. 2021.
8. Elias Iosif, Klitos Christodoulou, Marios Touloupou, Antonios Inglezakis. "Leadership Uniformity in Raft Consensus Algorithm". 17th European, Mediterranean and Middle Eastern Conference on Information Systems (EMCIS) , Nov 25-26 Nov 2020, Dubai-UAE. [**Best Technical Paper Award**]
9. Marinos Themistocleous, Klitos Christodoulou, Elias Iosif, Soulla Louca, Demetris Tseas. "Blockchain in Academia: Where do we stand and where do we go?". Hawaii International Conference on System Sciences (HICSS), Jan 7-10, 2020, Maui, Hawaii, USA.

10. Andreas Vlachos, Klitos Christodoulou, Elias Iosif. "An Algorithmic Blockchain Readiness Index". Decentralized–Academic Track, Oct 30 - Nov 01, 2019, Athens, Greece.
11. Klitos Christodoulou, Elias Iosif, Soulla Louca, Marinos Themistocleous. "Identity Discovery in Bitcoin Blockchain: Leveraging Transactions Metadata via Supervised Learning". 3rd International Conference on Vision, Image and Signal Processing, Aug 23-25, 2019, Vancouver, Canada.
12. Elias Iosif, Soulla Louca. "Blockchains and Data Management: Current Landscape and Challenges". 12th Mediterranean Conference on Information Systems (MCIS), Sept. 2018, Corfu, Greece.
13. Marinos Themistocleous, Kypros Stefanou, Elias Iosif. "To Chain or not to Chain? A Blockchain Case from the Energy Sector", In: Themistocleous M., Morabito V. (eds) Information Systems. EMCIS 2018. Lecture Notes in Business Information Processing. Springer International Publishing, Cham, Switzerland.
14. Nikos Athanasiou, Elias Iosif, Alexandros Potamianos. "Neural Activation Semantic Models: Computational Lexical Semantic Models of Localized Neural Activations". 27th International Conference on Computational Linguistics (COLING), August 20-26, 2018 Santa Fe, New Mexico, USA
15. Fenia Christopoulou, Eleftheria Briakou, Elias Iosif, Alexandros Potamianos. "Mixture of Topic-based Distributional Semantic and Affective Models". 12th IEEE International Conference on Semantic Computing, 31 Jan. - 2 Feb. 2018, Laguna Hills, California, USA.
16. Athansia Kolovou, Elias Iosif, Alexandros Potamianos. "Lexical and Affective Models in Early Acquisition of Semantics". 6th International Workshop on Child Computer Interaction (WOCCI), pp. 40-45, Nov. 2017, Glasgow, Scotland.
17. George Paraskevopoulos, Karamanolakis Giannis, Iosif Elias, Pikrakis Aggelos, Alexandros Potamianos. "Sensory-Aware Multimodal Fusion for Word Semantic Similarity Estimation". MultiLearn Workshop, Sept. 2017, Kos island, Greece.
18. Giannis Karamanolakis, Elias Iosif, Athansia Zlatintsi, Aggelos Pikrakis, Alexandros Potamianos. "Audio-based Distributional Semantic Models for Music Auto-tagging and Similarity Measurement". MultiLearn Workshop, Sept. 2017, Kos island, Greece.
19. Pinelopi Papalampidi, Elias Iosif and Alexandros Potamianos. "Dialogue Act Semantic Representation and Classification Using Recurrent Neural Networks". 21st Workshop on the Semantics and Pragmatics of Dialogue (SemDial), Saarbrücken, Germany, August 2017.
20. Athanasia Kolovou, Filippos Kokkinos, Aris Fergadis, Pinelopi Papalampidi, Elias Iosif, Nikolaos Malandrakis, Elisavet Palogiannidi, Harris Papageorgiou, Shrikanth Narayanan, Alexandros Potamianos. "Tweester at SemEval-2017 Task 4: Fusion of Semantic-Affective and Pairwise Classification Models for Sentiment Analysis in Twitter". International Workshop on Semantic Evaluation (SemEval) 2017, collocated with the 55th Annual Meeting of the Association for Computational Linguistics (ACL), Vancouver, Canada, August 2017.
21. Arodami Chorianopoulou, Euthymios Tzinis, Elias Iosif, Asimena Papoulidi, Christina Papailiou, Alexandros Potamianos. "Engagement Detection for Children with Autism Spectrum Disorder". IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), New Orleans, USA, March 2017.
22. Spiros Georgiladakis, Georgia Athanasopoulou, Raveesh Meena, Jose Lopes, Arodami Chorianopoulou, Elisavet Palogiannidi, Elias Iosif, Gabriel Skantze, Alexandros Potamianos. "Root Cause Analysis of Miscommunication Hotspots in Spoken Dialogue Systems". Interspeech, San Francisco, California, USA, September 2016.

23. Giannis Karamanolakis, Elias Iosif, Athanasia Zlatintsi, Aggelos Pikrakis, Alexandros Potamianos. "Audio-based Distributional Representations of Meaning Using a Fusion of Feature Encodings". Interspeech, San Francisco, California, USA, September 2016.
24. Elisavet Palogiannidi, Athanasia Kolovou, Fenia Christopoulou, Filippos Kokkinos, Elias Iosif, Nikolaos Malandrakis, Harris Papageorgiou, Shrikanth Narayanan, Alexandros Potamianos. "Tweester: Sentiment Analysis in Twitter using Semantic-Affective Model Adaptation". International Workshop on Semantic Evaluation (SemEval'16), San Diego, California, USA, June 2016.
[Best system for shared evaluation task 4B]
25. Elisavet Palogiannidi, Elias Iosif, Polychronis Koutsakis, Alexandros Potamianos. "A Semantic-Affective Compositional Approach for the Affective Labelling of Adjective-Noun and Noun-Noun Pairs". 7th Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis (WASSA), San Diego, California, USA, June 2016.
26. Elias Iosif, Alexandros Potamianos. "Crossmodal Network-Based Distributional Semantic Models". In: 10th International Conference on Language Resources and Evaluation (LREC), Portoroz, Slovenia, May 2016.
27. Elias Iosif, Spiros Georgiladakis, Alexandros Potamianos. "Cognitively Motivated Distributional Representations of Meaning". In: 10th International Conference on Language Resources and Evaluation (LREC), Portoroz, Slovenia, May 2016.
28. Elisavet Palogiannidi, Elias Iosif, Polychronis Koutsakis, Alexandros Potamianos. "Affective Lexicon Creation for the Greek Language". In: 10th International Conference on Language Resources and Evaluation (LREC), Portoroz, Slovenia, May 2016.
29. Jose Lopes, Arodami Chorianopoulou, Elisavet Palogiannidi, Helena Moniz, Alberto Abad, Katerina Louka, Elias Iosif and Alexandros Potamianos. "The SpeDial datasets: datasets for Spoken Dialogue Systems analytics". In: 10th International Conference on Language Resources and Evaluation (LREC), Portoroz, Slovenia, May 2016.
30. Alexandros Potamianos, Costas Tzafestas, Elias Iosif, Franziska Kirstein, Petros Maragos, Kerstin Dauthenhahn, Joakim Gustafson, John Erland Ostergaard, Stefan Kopp, Preben Wik, Oliver Pietquin, Samer Al Moubayed. "BabyRobot - Next Generation Social Robots: Enhancing Communication and Collaboration Development of TD and ASD Children by Developing and Commercially Exploiting the Next Generation of Human-Robot Interaction Technologies". 2nd Workshop on Evaluating Child-Robot Interaction (CRI) at Human-Robot Interaction (HRI'16), Christchurch, New Zealand, March 2016.
31. Athanasia Zlatintsi, Elias Iosif, Petros Maragos, Alexandros Potamianos. "Audio Salient Event Detection and Summarization Using Audio and Text Modalities". In: European Signal Processing Conference (EUSIPCO), Nice, France, Sept 2015.
32. Petros Koutras, Athanasia Zlatintsi, Elias Iosif, Athanasios Katsamanis, Petros Maragos, Alexandros Potamianos. "Predicting Audio-Visual Salient Events Based on Visual, Audio and Text Modalities for Movie Summarization". In: IEEE International Conference on Image Processing (ICIP), Québec City, Canada, Sept 2015.
33. Elisavet Palogiannidi, Elias Iosif, Polychronis Koutsakis, Alexandros Potamianos. "Valence, Arousal and Dominance Estimation for English, German, Greek, Portuguese and Spanish Lexica using Semantic Models". In: Interspeech, Dresden, Germany, Sept 2015.

34. Spiros Georgiladakis, Elias Iosif, Alexandros Potamianos. "Fusion of Compositional Network-based and Lexical Function Distributional Semantic Models". In: Proc. Cognitive Modeling and Computational Linguistics (CMCL) Workshop, Conference of the North American Chapter of the Association for Computational Linguistics – Human Language Technologies (NAACL-HLT), Denver, Colorado, USA, June 2015.
35. Elias Iosif and Alexandros Potamianos. "Feeling is Understanding: From Affective to Semantic Spaces". In: Proc. 11th International Conference for Computational Semantics (IWCS), London, UK, Apr 2015.
36. Georgia Athanasopoulou, Ioannis Klasinas, Spiros Georgiladakis, Elias Iosif, Alexandros Potamianos. "Using Lexical, Syntactic and Semantic Features for Non-Terminal Grammar Rule Induction in Spoken Dialogue Systems". In: Proc. IEEE International Workshop on Spoken Language Technology (SLT), South Lake Tahoe, USA, Dec 2014.
37. Manolis Tsangaris, Vassiliki Kouloumenta, Katerina Louka, Spyros Georgiladakis, Manolis Perakakis, Georgia Athanasopoulou, Ioannis Klasinas, Elias Iosif, Alexandros Potamianos. "The Port-Dial/SpeDial Grammar Induction Platform for Spoken Dialogue Systems". In: Proc. IEEE International Workshop on Spoken Language Technology (SLT), South Lake Tahoe, USA, Dec 2014.
38. Spiros Georgiladakis, Christina Unger, Elias Iosif, Sebastian Walter, Philipp Cimiano, Euripides Petrakis, Alexandros Potamianos. "Fusion of Knowledge-Based and Data-Driven Approaches to Grammar Induction". In: Proc. Interspeech, Singapore, Sep 2014.
39. Ioannis Klasinas, Elias Iosif, Katerina Louka, Alexandros Potamianos. "SemEval-2014 Task 2: Grammar Induction for Spoken Dialogue Systems". In: Proc. 8th International Workshop on Semantic Evaluation (SemEval), Dublin, Ireland, Aug 2014.
40. Arodami Chorianopoulou, Georgia Athanasopoulou, Elias Iosif, Ioannis Klasinas, Alexandros Potamianos. "tucSage: Grammar Rule Induction for Spoken Dialogue Systems via Probabilistic Candidate Selection". In: Proc. 8th International Workshop on Semantic Evaluation (SemEval), Dublin, Ireland, Aug 2014.
41. Georgia Athanasopoulou, Elias Iosif, Alexandros Potamianos. "Low-Dimensional Manifold Distributional Semantic Models". In: Proc. 25th International Conference on Computational Linguistics (COLING), Dublin, Ireland, Aug 2014.
42. Kalliopi Zervanou, Elias Iosif, Alexandros Potamianos. "Word Semantic Similarity for Morphologically Rich Languages". In: Proc. 9th International Conference on Language Resources and Evaluation (LREC), Reykjavik, Iceland, May 2014.
43. Elisavet Palogiannidi, Ioannis Klasinas, Alexandros Potamianos, Elias Iosif. "Spoken Dialogue Grammar Induction from Crowdsourced Data". In: Proc. IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP), Florence, Italy, May 2014.
44. Elias Iosif and Taniya Mishra. "From Speaker Identification to Affective Analysis: A Multi-Step System for Analyzing Children Stories". In: Proc. Third Workshop on Computational Linguistics for Literature (co-located with EACL'14), Gothenburg, Sweden, April 2014.
45. Kalliopi Zervanou, Elias Iosif, Alexandros Potamianos. "An Unstructured Distributional Semantic Model for Morphologically Rich Languages: The Dutch Case Study". In: Proc. of the 24th Meeting of Computational Linguistics in The Netherlands (CLIN 2014), January, 2014.
46. Ioannis Klasinas, Alexandros Potamianos, Elias Iosif, Spiros Georgiladakis, Gianluca Mameli. "Web Data Harvesting for Speech Understanding Grammar Induction". In: Proc. Interspeech, August 2013.

47. Nikos Malandrakis, Elias Iosif, Vassiliki Prokopi, Alexandros Potamianos, Shrikanth Narayanan. "Deep Purple: Lexical, String and Affective Feature Fusion for Sentence-Level Semantic Similarity Estimation". In: Proc. *SEM, 2013.
48. Elias Iosif, Alexandros Potamianos, Maria Giannoudaki, Kalliopi Zervanou, "Semantic Similarity Computation for Abstract and Concrete Nouns Using Network-Based Distributional Semantic Models". In: Proc. 10th International Conference for Computational Semantics (IWCS), Potsdam, Germany, 2013.
49. Nikos Malandrakis, Elias Iosif, Alexandros Potamianos, "DeepPurple: Estimating Sentence Semantic Similarity using N-gram Regression Models and Web Snippets". In: Proc. First Joint Conference on Lexical and Computational Semantics (*SEM), Montreal, Canada, 2012.
50. Elias Iosif, Alexandros Potamianos, "SemSim: Resources for Normalized Semantic Similarity Computation Using Lexical Networks". In: Proc. 8th International Conference on Language Resources and Evaluation (LREC), Istanbul, Turkey, 2012.
51. Elias Iosif, Maria Giannoudaki, Eric Fosler-Lussier, Alexandros Potamianos, "Associative and Semantic Features Extracted From Web-Harvested Corpora". In: Proc. 8th International Conference on Language Resources and Evaluation (LREC), Istanbul, Turkey, 2012.
52. Nikos Malandrakis, Alexandros Potamianos, Elias Iosif and Shrikanth Narayanan, "EmotiWord: Affective Lexicon Creation with Application to Interaction and Multimedia Data". In: Proc. MUSCLE International Workshop on Computational Intelligence for Multimedia Understanding , Pisa, Italy, 2011.
53. Nikos Malandrakis, Alexandros Potamianos, Elias Iosif, Shrikanth Narayanan. "Kernel Models for Affective Lexicon Creation". In Proc. of Interspeech, Florence, Italy, 2011.
54. Elias Iosif. "Unsupervised Web Name Disambiguation Using Semantic Similarity and Single-Pass Clustering". In: Proc. 6th Hellenic Conference on Artificial Intelligence (SETN), Athens, Greece, 2010.
55. Elias Iosif, Alexandros Potamianos. "Unsupervised Semantic Similarity Computation Using Web Search Engines". In: Proc. IEEE/WIC/ACM International Conference on Web Intelligence (WI), Silicon Valley, USA, 2007.
56. Elias Iosif, Alexandros Potamianos. "A Soft-Clustering Algorithm for Automatic Induction of Semantic Classes". In: Proc. Interspeech, Antwerp, Belgium, 2007.
57. Elias Iosif, Athanasios Tegos, Apostolos Pangos, Eric Fosler-Lussier, Alexandros Potamianos. "Unsupervised Combination of Metrics for Semantic Class Induction". In: Proc. IEEE/ACL International Workshop on Spoken Language Technology (SLT), Aruba, 2006.
58. Apostolos Pangos, Elias Iosif, Alexandros Potamianos, Eric Fosler-Lussier. "Combining Statistical Similarity Metrics for Automatic Induction of Semantic Classes". In: Proc. IEEE International Workshop on Automatic Speech Recognition and Understanding (ASRU), San Juan, Puerto Rico, 2005.

Teaching

1. Course: **Emerging Topics in Metaverse**
 Institution: **MSc in Metaverse, School of Business, University of Nicosia, Cyprus**
 Period: Sept 2024 - present

2. Course: **Permissioned Blockchain Programming**
 Institution: **MSc in Blockchain and Digital Currency (former title: MSc in Digital Currency), School of Business, University of Nicosia, Cyprus**
 Note: New course; syllabus/content designed and developed from scratch
 Period: Jan 2022 - present
3. Course: **Emerging Topics and Practical Considerations in Blockchains**
 (course later renamed as “Emerging Topics in Blockchain and Digital Currency”)
 Institution: **MSc in Blockchain and Digital Currency (former title: MSc in Digital Currency), School of Business, University of Nicosia, Cyprus**
 Period: July 2018 – present
4. Course: **Blockchain Systems and Architectures**
 Institution: **MSc in Blockchain and Digital Currency (former title: MSc in Digital Currency), School of Business, University of Nicosia, Cyprus**
 Note: co-teaching
 Period: Fall semester 2022
5. Course: **Digital Currency Programming**
 Institution: **MSc in Blockchain and Digital Currency (former title: MSc in Digital Currency), School of Business, University of Nicosia, Cyprus**
 Note: co-teaching
 Period: July 2019 – present (periodically)
6. Course: **Signals and Systems** (fall semester of academic year 2016–17)
 Institution: School of Electrical and Computer Engineering, **National Technical University of Athens, Greece**
 Part-time co-teaching under contract
 Period of contract: 01.12.2016 – 22.03.2017
7. Course: **Signals and Systems** (spring semester of academic year 2015–16)
 Institution: School of Electrical and Computer Engineering, **National Technical University of Athens, Greece**
 Part-time co-teaching under contract
 Period of contract: 20.07.2016 – 31.08.2016

Teaching: Courses Development

1. Course: **Emerging Topics in Metaverse**
 Institution: **MSc in Metaverse, School of Business, University of Nicosia, Cyprus**
 Period: April 2022, course design and development

Research Distinctions

1. **Best Technical Paper Award.** “Leadership Uniformity in Raft Consensus Algorithm”. 17th European, Mediterranean and Middle Eastern Conference on Information Systems (EMCIS) , Nov 25-26 Nov 2020, Dubai-UAE.
Abstract: The Raft consensus algorithm constitutes a widely-used algorithm not only in the broader area of distributed systems, but also in private/permissioned blockchains such as Hyperledger Fabric. A Raft-based distributed system (RDS) strongly relies on leader election, which involves a number of time-related parameters. In the Raft-related literature, the process according to which those

parameters are set is an under-researched area. Specifically, the use of the uniform distribution is the dominant approach. Motivated by this realization, in this work, we focus on these time parameters proposing the notion of “leadership uniformity” in combination with a series of performance metrics. Leadership uniformity is based on the desirable characteristic of having equality among the nodes who serve as leaders. The proposed performance metrics are straightforward adaptations of widely-used measurements from broad disciplines such as estimation theory. The experimental results of this work justify the appropriateness of the proposed notion of leadership uniformity. Specifically, the best performance was yielded by the utilization of normal distribution from which the time parameters under investigation were drawn.

2. Member of the Tweester team that won the **1st place** (among 19 groups) in the **Twitter sentiment analysis** task of **SemEval 2016** competition. SemEval “is an ongoing series of evaluations of computational semantic analysis systems, organized under the umbrella of SIGLEX, the Special Interest Group on the Lexicon of the Association for Computational Linguistics.”

Related publication: Elisavet Palogiannidi, Athanasia Kolovou, Fenia Christopoulou, Filippos Kokkinos, Elias Iosif, Nikolaos Malandrakis, Harris Papageorgiou, Shrikanth Narayanan, Alexandros Potamianos. “Tweester: Sentiment Analysis in Twitter using Semantic-Affective Model Adaptation”. International Workshop on Semantic Evaluation (SemEval’16), San Diego, California, USA, June 2016.

Abstract: We describe our submission to SemEval2016 Task 4: Sentiment Analysis in Twitter. The proposed system ranked first for the subtask B. Our system comprises of multiple independent models such as neural networks, semantic-affective models and topic modeling that are combined in a probabilistic way. The novelty of the system is the employment of a topic modeling approach in order to adapt the semantic-affective space for each tweet. In addition, significant enhancements were made in the main system dealing with the data preprocessing and feature extraction including the employment of word embeddings. Each model is used to predict a tweet’s sentiment (positive, negative or neutral) and a late fusion scheme is adopted for the final decision.

Talks – Poster Presentations – System Demonstrations

1. “The (Not So) Hidden Next-Door AI”, Demystifying & Unleashing AI Conference, Nicosia, (*invited talk*). 07 Mar 2025
2. “Teaching smart contracts to non-coders: The chmod 444 pov”, EU Blockchain Week 2023, Ljubljana, (*invited talk*). 06 Oct 2023
3. “Public Permissioned Blockchains – A discussion organized by the Bloxberg Hub at the University of Geneva”, (*invited discussion*). 28 Sept 2023
4. “A new blockchain-based meritocratic marketplace for distributed machine learning model training”. (*conference talk*). 4th International Conference and Summer School on Numerical Computations: Theory and Algorithms, Calabria, Italy, 16 June 2023.
5. “Development of Blockchain Infrastructure in Cyprus (EBSI)”. (*seminar talk*). In seminar: “The role of Standards in Empowering the Adoption of Distributed Ledger Technologies: BlockChain”, Nicosia, Cyprus, 5 June 2023.
6. “Computation of Blockchain Readiness Under Partial Information”. (*conference talk*). 18th European, Mediterranean and Middle Eastern Conference on Information Systems (EMCIS) 08-09 Dec, 2021.
7. “AI Meets Blockchain: Estimation of Blockchain Readiness”. (*invited talk*). “Blockchain Summit Global”, July 2021.

8. "Leadership Uniformity in Raft Consensus Algorithm". (*conference talk*). 17th European, Mediterranean and Middle Eastern Conference on Information Systems (EMCIS) , Nov 25-26 Nov 2020, Dubai-UAE.
9. "DLT4ALL: A Knowledge Alliance for Blockchain in Academic, Entrepreneurial and Investment Training". (*talk*). Bloxberg online summit, June 2020.
10. "Blockchain: Revolutionizing the Shipping Industry". (*invited talk*). "Digitization in the Maritime Sector: The creation of a supply chain platform for the cruise industry" Conference, Limassol, Cyprus, February 2020.
11. "DLT4ALL project: A Knowledge Alliance for Blockchain in Academic, Entrepreneurial and Investment Training". (*pitch*). 8th European University Business Forum, Brussels, Belgium, October 2019.
12. "Blockchain in Education: Current Landscape and Open Challenges". (*invited talk*). 8th ECN Crowdfunding Convention: Scaling up the Industry, Brussels, Belgium, October 2019.
13. "Blockchain and the Retail Industry in the 21st Century". (*conference talk*). The Future of Selling Consumer Goods, Nicosia, Cyprus, April 2019.
14. "Empowering the Learner via Blockchain Technology and the DLT4ALL project". (with Soulla Louca and Dimitris Bibikas). (*conference talk*). Decentralized 2018, Athens, Greece, Nov 2018.
15. "Revoking Records in an Immutable Ledger". (*conference talk*). Crypto Valley Conference on Blockchain Technology, Zug, Switzerland, June 2018.
16. "Blockchain Technologies and Cryptocurrencies in the Tourism Sector". (*invited talk*). Event organized by Heraklion Chamber of Commerce and Industry, Heraklion, Greece, May 2018.
17. "Crossmodal Network-Based Distributional Semantic Models". (*conference talk*). 10th International Conference on Language Resources and Evaluation (LREC), Portoroz, Slovenia, May 2016.
18. "Cognitively Motivated Distributional Representations of Meaning". (*conference poster*). 10th International Conference on Language Resources and Evaluation (LREC), Portoroz, Slovenia, May 2016.
19. "Affective Lexicon Creation for the Greek Language". (*conference poster*). 10th International Conference on Language Resources and Evaluation (LREC), Portoroz, Slovenia, May 2016.
20. "Saliency detection for movies using text-based and affective features" (*conference talk*). Workshop of the Cognimuse (Multimodal Signal and Event Processing in Perception and Cognition) project, Athens, Greece, Nov 2015.
21. "The role of affect to the acquisition of lexical semantics" (*talk*). Workshop of the BabyAffect (Affective and behavioral modeling of early childhood lexicalizations and communicative functions with application to autism spectrum disorders and language delay detection) project, Athens, Greece, Nov 2015.
22. "Distributional Semantic Models and Affective Text Analysis" (*talk*). **Toshiba Research Europe**, Cambridge, UK, June 2015.
23. "Feeling is Understanding: From Affective to Semantic Spaces" (*conference talk*). 11th International Conference for Computational Semantics (IWCS), London, UK, Apr 2015.
24. "SemEval-2014 Task 2: Grammar Induction for Spoken Dialogue Systems" (*conference talk*). SemEval'14, Dublin, Ireland, Aug 2014.

25. "SemEval-2014 Task 2: Grammar Induction for Spoken Dialogue Systems" (*conference poster*). SemEval'14, Dublin, Ireland, Aug 2014.
26. "tucSage: Grammar Rule Induction for Spoken Dialogue Systems via Probabilistic Candidate Selection" (*conference poster*). SemEval'14, Dublin, Ireland, Aug 2014.
27. "The PortDial and SpeDial projects" (*demonstration – poster*). EU Projects Village at LREC, Reykjavik, Iceland, May 2014.
28. "Word Semantic Similarity for Morphologically Rich Languages" (*conference talk*). Reykjavik, Iceland, May 2014.
29. "From Speaker Identification to Affective Analysis: A Multi-Step System for Analyzing Children Stories" (*conference talk*). Gothenburg, Sweden, April 2014.
30. "From Speaker Identification to Affective Analysis: A Multi-Step System for Analyzing Children Stories" (*talk*). **AT&T Labs**, New Jersey, USA, April 2014.
31. "Grammar Induction for Spoken Dialogue Systems: The PortDial and SpeDial Projects – The SemEval'14 Task2" (*presentation*). **Microsoft Research**, Silicon Valley, USA, March 2014.
32. "Semantic Similarity Computation for Abstract and Concrete Nouns Using Network-Based Distributional Semantic Models" (*conference poster*). Potsdam, Germany, March 2013.
33. "Grammar Creation for Spoken Dialogue Systems: A Bottop-Up Approach" (*demonstration*). EU Projects Village at LREC, Istanbul, Turkey, May 2012.
34. "Associative and Semantic Features Extracted From Web-Harvested Corpora" (*conference talk*). LREC, Istanbul, Turkey, May 2012.
35. "SemSim: Resources for Normalized Semantic Similarity Computation Using Lexical Networks" (*conference talk*). LREC, Istanbul, Turkey, May 2012.
36. "Associative and Semantic Features Extracted From Web-Harvested Corpora" (*talk*). Department of Philosophy and History of Science, University of Athens, Athens, Greece, Dec. 2011.
37. "Similarity Computation Using Semantic Networks Created From Web-Harvested Data" (*talk*). Center for Mind/Brain Sciences (CIMeC), University of Trento, Rovereto, Italy, Nov. 2011.
38. "Kernel Models for Affective Lexicon Creation" (*conference poster*). Interpseech, Florence, Italy, Aug. 2011.
39. "Unsupervised Web Name Disambiguation Using Semantic Similarity and Single-Pass Clustering" (*conference talk*). SETN, Athens, Greece, May 2010.
40. "Unsupervised Semantic Similarity Computation and Induction of Semantic Classes" (*talk*). Institute of Informatics and Telecommunications (IIT), National Centre for Scientific Research "DEMOKRITOS", Athens, Greece, Oct. 2008.
41. "Movie Summarization" (*demonstration*). International Broadcasting Convention (IBC), Amsterdam, Netherlands, Sep. 2007.
42. "Real-Time Audio-Visual Automatic Speech Recognition Demonstrator" (*demonstration*). International Broadcasting Convention (IBC), Amsterdam, Netherlands, Sep. 2007.
43. "A Soft-Clustering Algorithm for Automatic Induction of Semantic Classes" (*conference talk*). Inter-speech, Antwerpen, Belgium, Aug. 2007.

Tutorials/Webinars/Summer Courses/Bootcamps

1. Visit to the G C School of Careers in Nicosia. Lecture on emerging technologies such as blockchain and their applications in various industries, including the agri-food sector, including the TRUST-FOOD EU-funded project, April 2024.
2. MOOCs in the context of the CRISIS Erasmus+ project (<https://crisisproject.eu/>):
 - “Improving Smart Cities Resilience using Tools”, May 2023
 - “Data Analytics for Smart Cities Decision Making”, May 2023
 - “Organizing the Supply Chain for Resilience using Agile > Principles”
3. Course/Bootcamp title: “Introduction to Blockchain, NFTs and the Metaverse”
 5-day course in the context of NEOLAiA alliance universities.
 Delivered lectures: Day 3 (full) and Day 5 (partial) focusing on smart contracts and metaverse.
 Dept. of Digital Innovation, University of Nicosia (Oct 2022)
4. Course title: “Special Topics in Business”
 Face-to-face summer course consisting of 12 lectures focused on cryptocurrencies and blockchain
 Dept. of Digital Innovation, University of Nicosia (June 2022)
 - Lecture on “Cryptocurrency basics”
 - Lecture on “Ethereum and smart contracts”
5. “EUNOMIA MOOC: Blockchain as a first-class citizen in social media”
 Webinar delivered in the context of the EUUNOMIA EU project supported by the DLT4ALL EU project (28 May 2021)
6. “Blockchain-based Decentralized Applications”
 Webinar delivered in the context of the DLT4ALL EU project (1-5 March 2021)
 Summary: This online course “analyses dApps in all their aspects and is addressed to both technical and non-technical audiences, always keeping the topic challenging. The main aim of the module is to enable participants to evaluate which industries are ready to adopt Blockchain technology and to which extent. Decentralization and disintermediation are novel concepts and difficult to fully grasp. There are plenty of components that need to be taken into consideration such as the degree of security, privacy and interoperability. Each DLT network varies to the extent of satisfying these components. It is of ultimate importance for the content creators to evaluate the best practices and potential shortcomings of this technology. The basic structure and main design patterns of dApps are presented as an introduction to the basics of dApps development. Use cases for advanced dApps in various sectors are presented together with their relation to other disruptive technologies within the framework of the 4th Industrial revolution.”
7. “Introduction to Blockchain”
 3-hour webinar delivered in the context of the DLT4ALL EU project
 12 Jan 2021
8. “Digital Currency Programming”
 6-hour webinar delivered in the context of the BLOCKPOOL EU project
 15 and 22 Oct 2020
9. “Emerging Topics and Practical Considerations in B&DLTs”
 6-hour webinar delivered in the context of the BLOCKPOOL EU project
 14 and 17 July 2020

10. “Decentralized Training Series”
19–20 November 2018, Athens, Greece
11. “On the Synergy of Blockchains and Internet-of-Things: A Decentralized Perspective”
Summerschool, University of Nicosia, Nicosia, Cyprus, July 2018
12. “Multimodal Signal Processing, Saliency and Summarization”
IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), New Orleans, USA, March 2017
Contribution: co-author (with A. Potamianos) of Part 4 “Text Processing and Saliency”

Reviewer for Journals

1. Artificial Intelligence Review
2. Blockchain for Science (part of the journal Frontiers in Blockchain)
3. Frontiers in Blockchain
4. Future Internet
5. Computer Speech and Language
6. Computational Intelligence
7. Information Sciences
8. Information Processing and Management
9. Information Technology for Development
10. Knowledge and Information Systems

Member of Scientific Review Committees

1. 56th Hawaii International Conference on System Sciences (HICSS-56), Jan. 2023
2. 55th Hawaii International Conference on System Sciences (HICSS-55), Jan. 2022
3. 3rd IEEE International Conference on Blockchain (IEEE Blockchain-2020): Workshop “Recent Advances of Blockchain Technologies for Cybersecurity”, 02-06 Nov. 2020, Rhodes Island, Greece
4. 54th Hawaii International Conference on System Sciences (HICSS-54), Jan. 2021
5. Interspeech Conference, Shanghai China, Oct. 2020
6. 12th edition of the Language Resources and Evaluation Conference (LREC), 11-16 May 2020, Marseille, France.
7. European, Mediterranean and Middle Eastern Conference on Information Systems (EMCIS), Dubai, UAE, Dec. 2019.
8. Decentralized 2019 Conference–Academic Track, Oct 30 - Nov 01, 2019, Athens, Greece.
9. IEEE International Workshop on Computer Aided Modeling and Design of Communication Links and Networks, 11–13 September 2019, Limassol, Cyprus.

10. Americas Conference on Information Systems (AMCIS), 15–17 August 2019, Cancun, Mexico.
11. International Conference on Information Systems (ICIS), 13–16 December 2018, San Francisco, California, USA.
12. Interspeech Conference, India, Sept. 2018
13. 11th edition of the Language Resources and Evaluation Conference (LREC), 7–12 May 2018, Miyazaki, Japan.
14. Multi-Learn-2017 Workshop, European Signal Processing Conference (EUSIPCO), Kos Island, Greece, Sep. 2017
15. Interspeech Conference, Stockholm, Sweden, Aug. 2017
16. 26th International Conference on Computational Linguistics (COLING), Osaka, Japan, Dec. 2016
17. 8th International Workshop on Semantic Evaluation (SemEval), Dublin, Ireland, August 2014
18. ACL Workshop on Language Technology for Cultural Heritage, Social Sciences, and Humanities (LaTeCH), Gothenburg, Sweden, April 2014
19. ACL Workshop on Language Technology for Cultural Heritage, Social Sciences, and Humanities (LaTeCH), Sofia, Bulgaria, August 2013
20. First Joint Conference on Lexical and Computational Semantics (\star SEM), Montreal, Canada, 2012
21. 20th European Signal Processing Conference (EUSIPCO), Bucharest, Romania, 2012
22. 10th International Conference on Multimodal Interfaces (ICMI), Chania, Greece, 2008

Member of Conference Organizing Committees

1. 20th European, Mediterranean and Middle Eastern Conference on Information Systems (EMCIS), 2023.
2. 19th European, Mediterranean and Middle Eastern Conference on Information Systems (EMCIS), Dec. 2022.
3. 18th European, Mediterranean and Middle Eastern Conference on Information Systems (EMCIS), Dec. 2021.
4. **Chair** of Decentralized 2020
Main role: In charge of the academic/educational content, overall overview regarding the online format, collaboration with teams (promotion, etc.).
Highlights: 1000+ registrations per event (from 75+ countries)
Format: Formulated as a series of online webinars (due to covid19) under the name **“Decentralized Learning Series (DLS) 2020-21”**.
 - (a) DLS Webinar 1: “Decentralized Learning Series | Launch Event and RippleX Workshop”
Nov. 2020
 - (b) DLS Webinar 2: “VeChain – ToolChain – Digital Transformation of the Healthcare Industry”
Dec. 2020
 - (c) DLS Webinar 3: “Decentralized Finance (DeFi): Where do we stand and where do we go?”
Jan. 2021

- (d) DLS Webinar 4: “Shaping our Digital Future through the knowledge triangle: Education, Research, and Innovation”
Feb. 2021
 - (e) DLS Webinar 5: “User-Oriented, Secure, Trustful and Decentralized Social Media”
Mar. 2021
 - (f) DLS Webinar 6: “Blockpool Acceleration Program”
Apr. 2021
 - (g) DLS Webinar 6: “Decentralization and the state-of-art at Digital Identity & Interoperability”
May 2021
5. 17th European, Mediterranean and Middle Eastern Conference on Information Systems (EMCIS), Dubai, UAE, Nov. 2020 .
 6. 16th European, Mediterranean and Middle Eastern Conference on Information Systems (EMCIS), Dubai, UAE, Dec. 2019.
 7. Decentralized 2019 Conference–Academic Track, Oct 30 - Nov 01, 2019, Athens, Greece.
 8. SemEval’14–Task2: “Grammar Induction for Spoken Dialogue Systems”, Dublin, Ireland, Aug. 2014.
 9. 8th International Conference on the Foundations of Digital Games, Chania, Greece, May 2013.
 10. 12th Conference of the European Chapter of the Association for Computational Linguistics (EACL), Athens, Greece, 2009.
 11. 10th International Conference on Multimodal Interfaces (ICMI), Chania, Greece, 2008.

Round Table Discussions / Panels

1. Panelist (topic “Practical Application of AI”) in Demystifying & Unleashing AI Conference, Nicosia, 07 Mar 2025.
2. Speaker in “DLTs in Universities” round table, DLT4ALL Final Conference, Oct 2021.
3. Speaker in “Blockchain & AI for European Green Deal” round table, European Blockchain Week, Sep 2021.
4. Moderator of “The European Blockchain Observatory and Forum and the state of the Blockchain Ecosystem in Europe” webinar, in the context of the Erasmus+ DLT4ALL project, online, April 2021.
5. Moderator of “Shaping our Digital Future through the knowledge triangle: Education, Research, and Innovation” webinar, Decentralized Learning Series, online, March 2021.
6. Moderator of the of the group “Innovation, creativity, technology”, in the context of the Erasmus+ Thematic Cluster Meeting on University-Business Cooperation, Brussels, Belgium, October 2019.
7. Panelist in “SMEs in the emerging Token Economy – Opportunities, Education and Best Practices”, 8th ECN Crowdfunding Convention: Scaling up the Industry, Brussels, Belgium, October 2019.

Thesis / Final Project Supervision (main/2nd/3rd supervisor)

1. Sana Rasheed, "BINC-TAPS: Blockchain-based Implementation of National Census as a supplementary instrument for enhanced Transparency, Accountability, Privacy, and Security", PhD in Blockchain and Digital Currency, School of Business, University of Nicosia,(viva: Oct 2024).
2. Marios Touloupou, "Performance Analysis of Blockchain Protocols: Validating Design Decisions through the Blockchain Benchmarking Framework (BBF)", PhD in Blockchain and Digital Currency, School of Business, University of Nicosia,(viva: Mar 2024).
3. Evgenia Kapassa, "Blockchain Enabled Demand Response Management in Internet of Vehicles", PhD in Blockchain and Digital Currency, School of Business, University of Nicosia,(viva: Mar 2024).
4. Andreas Vlachos, "Blockchain readiness index", PhD in Blockchain and Digital Currency, School of Business, University of Nicosia,(viva: 15 Sept 2023).
5. Enrico Zanardo, Provisional thesis title: "Btncolo – anti money laundering tool for blockchain transactions", PhD in Blockchain and Digital Currency, School of Business, University of Nicosia, (ongoing; main).
6. Elena Hadjikyriacou, topic related to blockchain-based identities (start: Oct 2023), MSc in Blockchain and Digital Currency, School of Business, University of Nicosia, 2023 (ongoing; main).
7. Joe Wait "Towards an Evaluation of Ethereum's Censorship Resistance". MSc in Digital Currency, School of Business, University of Nicosia, 2022 (main).
8. Grant Nel, "Neighborly--(Neighborly.world): Decentralized Platform for Home Cooks Making Strangers, Neighbor". MSc in Digital Currency, School of Business, University of Nicosia, 2020 (main).
9. Michail Kargakis, "Proof-Of-Space: Research and Implementation". MSc in Digital Currency, School of Business, University of Nicosia, 2020 (main).
10. Alexandros Mouyiassis, "Development of a Decentralized Application: A Bingo Game", MSc in Digital Currency, School of Business, University of Nicosia, 2019 (main).

Thesis Examination Committee Member

1. Daniel Moderau, "Cryptocurrency Knowledge: Exploring the Gap between Self-Assessed and Objective Knowledge", MSc in Blockchain and Digital Currency, School of Business, University of Nicosia, 2025.
2. Emmanuel Babalola, "Examining the Impact of Stablecoin Integration on Peer-to-Peer Remittance and Cross-border Payments: A Comparative Analysis of Platforms in Africa", MSc in Blockchain and Digital Currency, School of Business, University of Nicosia, 2025.
3. Huda Mohammed AlQemzi, "Unlocking the Future: Leveraging Blockchain and Digital Currency to Revolutionize HR Scholarship Management", MSc in Blockchain and Digital Currency, School of Business, University of Nicosia, 2024.
4. Rafael Vitorelli, "The Role of Blockchain and FHIR in Enhancing Healthcare Interoperability in the U.S.", MSc in Blockchain and Digital Currency, School of Business, University of Nicosia, 2024.
5. Butti Fadhel Alsuwaidi, "Blockchain Technology in the Pharmaceutical Supply Chain, Enhancing Transparency and Combating Counterfeit Drugs", MSc in Blockchain and Digital Currency, School of Business, University of Nicosia, 2024.

6. Saif Alsuwaidi, "Embracing Innovation: How UAE Law Adapts to Smart Contracts and Blockchain-Based Arbitration", MSc in Blockchain and Digital Currency, School of Business, University of Nicosia, 2024.
7. Amir-Hossein Aynetchi, "From parody to power: the evolution and impact of memecoins in crypto", MSc in Blockchain and Digital Currency, School of Business, University of Nicosia, 2024.
8. Emir Caglayan, "An examination of blockchain technology in digital advertising", MSc in Blockchain and Digital Currency, School of Business, University of Nicosia, 2024.
9. Josephine Mbatha, "Application of a blockchain enabled early warning system for anticipatory action in drought", MSc in Blockchain and Digital Currency, School of Business, University of Nicosia, 2024.
10. Victoria Ejumegu, "Assessing the ecological impact of decentralized finance", MSc in Blockchain and Digital Currency, School of Business, University of Nicosia, 2024.
11. Jihad Salimia, "Exploring the adoption of CBDCs in the Levantine countries (Palestine, Jordan, Syria, Lebanon, and Israel): Challenges and opportunities", MSc in Blockchain and Digital Currency, School of Business, University of Nicosia, 2023.
12. Alex Gutsche Bitcoin, "Merchant Adoption in Central America", MSc in Blockchain and Digital Currency, School of Business, University of Nicosia, 2023.
13. Vytautas Fabiano Silva Zumas, "Blockchain technology and the new drive on money laundering investigation", MSc in Blockchain and Digital Currency, School of Business, University of Nicosia, 2023.
14. Stavros Ioannou, "Tokenization of assets and non-fungible tokens (NFT's) as alternative investments", MSc in Blockchain and Digital Currency, School of Business, University of Nicosia, 2022.
15. Amir Salar Hajy Sheikhi, "Smart Minutes - A Blockchain-Based Approach to Automate the Meeting Minutes Process", MSc in Computer Science, Department of Computer Science, School of Sciences and Engineering, University of Nicosia, 2022.
16. Robin Philip, "The future of online payments in Sub-Saharan Africa", MSc in Blockchain and Digital Currency, School of Business, University of Nicosia, 2022.
17. Charalampos Dionysopoulos, "Building a Euro for the Future: Design Space & Options for a European CBDC". MSc in Digital Currency, School of Business, University of Nicosia, 2021.
18. Christophe Bosquillon, "DLT, Polycentric Governance, And Space Sustainability Ratings: A Computational Jurisdiction Framework, At The Intersection Of Space Law And Digital Integration". MSc in Digital Currency, School of Business, University of Nicosia, 2021.
19. Georgios Gontikas, "Designing A Blockchain Based Ecosystem For The Hospitality Industry". MSc in Digital Currency, School of Business, University of Nicosia, 2021.
20. Nancy Quiros Aguilar, "CORALGet: Costa Rican Cryptocurrency Exchange". MSc in Digital Currency, School of Business, University of Nicosia, 2021.
21. Sonke Menges, "New opportunities in online gambling". MSc in Digital Currency, School of Business, University of Nicosia, 2020.
22. Ran Xing, MSc in Digital Currency, School of Business, University of Nicosia, 2020.
23. Barbara Regonini, MSc in Digital Currency, School of Business, University of Nicosia, 2020.

24. Harald Egger, "The Application of Blockchain Technology and Security Tokens in Impact Investing". MSc in Digital Currency, School of Business, University of Nicosia, 2020.
25. Dimitris Tseas, "Studying the evolution of blockchain gambling – A targeted assessment evaluation of how the gambling industry has adopted blockchain". MSc in Digital Currency, School of Business, University of Nicosia, 2020.
26. Isabel Gumeyi, "Blockchain and crypto-currency adoption: A targeted readiness assessment evaluation of the Cayman Islands". MSc in Digital Currency, School of Business, University of Nicosia, 2020.
27. Dennis Sitso Kwame, "Identity Management in a Decentralized World: Keeping Personal Data Confidential while promoting Transparency". MSc in Digital Currency, School of Business, University of Nicosia, 2020.
28. Timothy Felsky, "Feasibility of Decentralized Market Protocols for Vehicle Sales". MSc in Digital Currency, School of Business, University of Nicosia, 2019.
29. Philippe Nadouze, "Perspectives on Players Economic Interest (PEI): A project on alternative financing for football clubs through Distributed Ledger Technology (DLT)". MSc in Digital Currency, School of Business, University of Nicosia, 2019.
30. Matthias Bayer, "Adoption and Status of Digital Currencies and Blockchain Technology in the Adult Industry". MSc in Digital Currency, School of Business, University of Nicosia, 2019.
31. Jumanah Kardi, "How blockchain empowers the edges by balancing the managed governance: the case of smart city Dubai". MSc in Digital Currency, School of Business, University of Nicosia, 2019.
32. Kathryn Gadberry, MSc in Digital Currency, School of Business, University of Nicosia, 2019.

Teaching Assistant

1. Course: **Linear Systems**
Institution: Department of Electronic and Computer Engineering, **Technical University of Crete, Greece**
Role: Design, supervision, examination of lab exercises
Period of contract: 01.11.2012 – 28.02.2013
2. Course: **Natural Language Processing**
Institution: Department of Electronic and Computer Engineering, **Technical University of Crete, Greece**
Role: Design, supervision, examination of lab exercises
Period of contract: 01.03.2012 – 31.07.2012
3. Course: **Introduction to Speech Processing**
Institution: Department of Electronic and Computer Engineering, **Technical University of Crete, Greece**
Role: Design, supervision, examination of lab exercises
Period of contract: 10.01.2012 – 29.02.2012
4. Course: **Statistical Modeling and Pattern Recognition**
Institution: Department of Electronic and Computer Engineering, **Technical University of Crete, Greece**
Role: Design, supervision, examination of lab exercises
Period of contract: 01.09.2009 – 28.02.2010

5. Course: **Natural Language Processing**
Institution: Department of Electronic and Computer Engineering, **Technical University of Crete, Greece**
Role: Design, supervision, examination of lab exercises
Period of contract: 01.03.2008 – 31.08.2008
6. Course: **Statistical Modeling and Pattern Recognition**
Institution: Department of Electronic and Computer Engineering, **Technical University of Crete, Greece**
Role: Design, supervision, examination of lab exercises
Period of contract: 01.01.2008 – 29.02.2008
7. Course: **Statistical Modeling and Pattern Recognition**
Institution: Department of Electronic and Computer Engineering, **Technical University of Crete, Greece**
Role: Design, supervision, examination of lab exercises
Period of contract: 01.12.2007 – 29.02.2008
8. Course: **Natural Language Processing**
Institution: Department of Electronic and Computer Engineering, **Technical University of Crete, Greece**
Role: Design, supervision, examination of lab exercises
Period of contract: 01.03.2007 – 31.08.2007
9. Course: **Natural Language Processing**
Institution: Department of Electronic and Computer Engineering, **Technical University of Crete, Greece**
Role: Design, supervision, examination of lab exercises
Period of contract: 01.03.2006 – 30.07.2006

Supervision of Diploma & Master Theses

I served as assistant in the following (completed) theses supervised by Prof. Alexandros Potamianos at School of Electrical and Computer Engineering, National Technical University of Athens, Greece (NTUA), and Department of Electronic and Computer Engineering, Technical University of Crete, Greece (TUC).

1. Eustathia Christopoulou (Diploma thesis), NTUA, 2016
Topic: Adaptation of distributional semantic models for affective text analysis
2. Spiros Georgiladakis (MSc thesis), TUC, 2015
Topic: Compositional distributional semantic models
3. Georgia Athanasopoulou (MSc thesis), TUC, 2015
Topic: Low-dimensional distributional semantic models
4. Arodami Chorianopoulou (Diploma thesis), TUC, 2013
Topic: Paraphrasing algorithms with application to spoken dialogue systems
5. Theodosios Moschopoulos (MSc thesis), TUC, 2012
Topic: Web mining for extracting policy networks
6. Afroditi Maraggouli (Diploma thesis), TUC, 2009
Topic: Chatterbots for question answering

7. Nikos Georgantonis (Diploma thesis), TUC, 2008
Topic: Distributional semantic models based on web-harvested data
8. Vaios Bakirtzoglou (Diploma thesis), TUC, 2008
Topic: Web mining for extracting policy networks
9. Georgia Tsakogianni (Diploma thesis), TUC, 2008
Topic: Web mining for music genre classification
10. Theodosios Moschopoulos (Diploma thesis), TUC, 2008
Topic: Collaborative filtering for movie recommendation

Memberships

1. Cyprus Scientific and Technical Chamber (ETEK)

Scholarships

Scholarship for undergraduate studies by Evi Sofianos Institution, Nicosia, Cyprus
Period: 1999-2003

Languages

Greek (native speaker)

English

Citizenship

Cyprus (EU)