
Detailed Curriculum Vitae

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Job Experience

2025 - ongoing	Principal Researcher (tenured) Pastras Language & Robots Lab (ILSP) & Affiliated Researcher (Archimedes Unit), ATHENA Research Center, Athens, Greece
2020 – 2024	Associate Researcher (tenure-track) Institute for Language and Speech Processing (ILSP) ATHENA Research Center, Athens, Greece
2010 – 2020	Founder & General Director Cognitive Systems Research Institute (CSRI), Athens, Greece
2018 – 2021	Associate Professor (associate faculty) Graduate School The American College of Greece (DEREE), Athens, Greece
2014 - 2018	Visiting Associate Research Professor Centre for Robotics and Neural Systems (CNRS) University of Plymouth, Plymouth, UK
2008 – 2016	Senior Researcher &
2004 – 2007	Research Fellow Institute for Language and Speech Processing (ILSP) ATHENA Research Center, Athens, Greece
2002 - 2004	Junior Lecturer Department of Computer Science, University of Sheffield, U.K.
2000 – 2004	Research Associate Natural Language Processing Group Department of Computer Science, University of Sheffield, U.K. & Research Co-ordinator <i>Institute for Language, Speech and Hearing (ILASH)</i> University of Sheffield, U.K.

Commissions of Trust & Leadership

- **President** of the Hellenic Artificial Intelligence Association www.eetn.gr (2025-ongoing)
- **President** of the National Network of Gender Equality and Anti-discrimination Committees in Research Centers & Independent Research Institutes – www.gearnet.gr (2024-ongoing)
- **Chair** of the ATHENA R.C. Gender Equality, Diversity and Inclusion Committee (2021-ongoing)
- **Vice-Chair** of the ATHENA R.C. Researchers' Association (2024-ongoing)
- **Vice-Chair** of the ATHENA R.C. Coalition for Advancing Research Assessment (**COARA**) Committee (2024-ongoing)

- IEEE Senior Member (since 2012)

Past:

- Vice-President of the Hellenic Artificial Intelligence Association (2023-2024)
- Chair of the ATHENA R.C. Researchers' Association (2022-2024)
- Head of Research Collaborations in Women in AI Research Labs (WAI-Labs) (2022 – 2024)
- Vice-Chair of the International Vision and Language Network (iV&L) (2014 – 2018)
- Chair of the “*Language and Embodied Cognition Task Force*”, IEEE Computational Intelligence Chapter, Group on Autonomous Mental Development (2013 – 2014)

Institutional Responsibilities

- Member of the Athena R.C. Recruitment Committee (2020-ongoing)

Innovation Activities

- **ATHENA R.C./ILSP PI and Research participant respectively, in 2 national digital innovation hubs** (2021-ongoing): AthenAI (Smart Attica) – focussing on Artificial Intelligence, and digiGov innoHub focussing on technologies for digital governance
- **Founder and CEO/CTO of a non-profit, R&D company:** Cognitive Systems Research Institute (CSRI), Athens, Greece (2010-2020) – extensive experience in management and administration (including legal, financial, communication and dissemination related issues, business plan development etc.). I run CSRI and its team of more than 10 researchers, for a decade.
- **R&D startup Consulting:** Winning Acuity Ltd., U.K. (2017) - R&D Consultant on corpus development, annotation and automatic detection of personality traits in interviews/meetings.
- **Provisional Patent:** Aloimonos Y., Fermueller C., Yang Y., Li Y., Pastra K. (2014), "[Learning Manipulation Actions from Unconstrained Videos](#)", provisional patent application, No. 62/109134 (USA)

Contribution to Roadmapping Activities and Innovation Panels

- **Silicon Valley Singularity University Forum (16 July 2018)**

By invitation-only private salon event on “*Artificial Intelligence and Robotics: Opportunities and Challenges*”, Athens, Greece

- **Nordic Translation Industry Forum (22-24 November 2017)**

By invitation-only brainstorming at the Innovation Panel of the event on the “*Future of Language Technology and Industry*”, Helsinki, Finland

- **Ernst Strüngmann Forum (22 - 27 May 2017)**

By invitation-only scientific brainstorming and roadmapping event for the emerging field of “*Interactive Task Learning*”, Frankfurt, Germany

- **European Parliament (28 March 2012)**

By invitation-only working lunch on “*The Future of European Research Leadership in Robotics*”, Brussels, Belgium

- **EUCognition Network (28-30 January 2011)**

By invitation-only event on “*Challenges for Cognitive Systems*”, Rapperswil Castle, Switzerland

Social Impact Activities

- **Mentorship Programme: AI experts reach school classes** (starting in 2025-2026 academic year) —> Launch of an initiative for bringing AI experts closer to primary and secondary students anywhere in Greece in cooperation with the the non profit organisation “The Tipping Point”; the latter runs an [established mentorship programme for schools](#) which is now systematically expanded so that school children meet and discuss with those people involved in the rapid developments in AI. AI experts devote 30 minutes of their time discussing with a school class about AI, its challenges and potential. The call for mentors was launched in **July 2025 and has already attracted more than 30 experts** (including famous Greek Scientists living outside Greece). In my capacity as President of the Hellenic AI Society.
- **AI experts community engagement Initiative** (started March 2025-ongoing) —> Organisation of biweekly meetings of the Hellenic Artificial Intelligence Society members for brainstorming and exchanges on the rapid developments in AI and the national strategy. The initiative started on March 2025 and has already managed to engage more than **200 members, including honorary members of the Society**. In my capacity as President of the Hellenic AI Society.
- **Capacity building programme for people with disabilities** (spring 2025-ongoing) —> Contribution to the second phase of the ‘[People with Disabilities Pioneers in AI](#)’ programme that is run by the non profit organisation Scify (science for you). The programme trains people with disabilities in contributing to AI technology development tasks, such as data annotation. With my lab members, we have developed **two embodied, verbal categorization tasks** that have been provided to the teams through simple web interfaces. The tasks are currently ongoing. In my capacity as Head of the Language & Robots Lab.
- **Equity, Diversity, Inclusion Awareness Campaign** (started October 2024-ongoing) —> Awareness and empowerment of the staff in Greek research centers and institutes through the organisation of the [GEARNET Webinar Series](#) (Inclusive Language – 16/10/24, Gender Based Violence and Harassment - 2/12/2024, Digital Accessibility - 29/01/2025, Neurodiversity - 19/3/2025, Health & Safety at work - 2/07/2025, Mental Health - 2/07/2025). The webinars have additively reached more than **1000 members of staff** (live attendance). In my capacity as President of GEARNET.
- **Community building & empowerment initiative: development of the ELLIS Unit Greece** (started spring 2025-ongoing) —> Contribution to the organisation and development of an **ELLIS Unit in Greece** for bringing together AI experts in Greece and empowering them through scientific cooperation and networking with [ELLIS](#) Units/Hubs across Europe. I have been a core member of the team that initiated this and have mostly contributed in reaching out to all research organisations in Greece (Universities and Research Centers/Institutes) to inform, encourage and coordinate their active participation in the initiative. The initiative is at the stage of proposal preparation for submission.
- **Waste Management and Recycling Initiative** (2007-2010) —> The initiative was run within the Institute for Language and Speech Processing/ATHENA RC, and involved establishment of procedures for waste management and recycling by the Institute, including e-waste recycling. Since then, the practices/procedures established are the ones that are followed across ATHENA RC premises.

Research Funding

2025-2026

RAP-FM

Foundation Models for Robot Action Planning

Archimedes Unit: Research in Artificial Intelligence, Data Science and Algorithms/Empowering Basic & Applied Research/Athena R.C. - Internships Call (GD.416.ARCHI-YP-0125)

Duties: PI

Grant covering two MSc interns

2025-2030

JRC Collaborative Doctoral Partnership (science-policy interface)

AI and ICT technologies in the European Crisis Management Laboratory

Joint Research Center (JRC) Collaborative Doctoral Partnership (CDP) Call 2025. The selected partnership comprises JRC/European Crisis Management Laboratory, the National Technical University of Athens/School of Rural, Surveying and Geoinformatics Engineering & ILSP/Athena RC.

Duties: Dual PhD student Co-Supervisor

Grant covering PhD studentships

2025-2026

NEXT-Gender

Capacity building for the next generation of researchers & evaluators to engage in inclusive sex and gendered research

ESF-COST Innovators Grant - Grant No: IG20137 - <https://www.cost.eu/actions/IG20137>

Duties: Vice-Chair

Project Grant: **125.000 Euros**

2025-2026

DeepViSa-TL

Transfer learning abilities of deep visual saliency models.

GRNET - National Infrastructure for Research and Technology

Duties: PI

Project Grant: **11.000 Euros (Amazon Web Services)**

2023-2026

SmartAttica-AtHeNAI

Smart Attica DIH, the Attica region - Greek Innovation hub for Artificial Intelligence in Energy and Environment, Supply chain and mobility, Culture and Tourism

Horizon2020 - Grant No: 10108356 <https://www.smartattica.eu/>

Duties: PI for Athena R.C. - Athena R.C. Leading the Culture, Tourism and Creative Industries Pillar

Project Grant: **5.987.186 Euros**

2021-2025

VOICES

Making Early Career Investigators' Voices Heard for Gender Equality

ESF-COST-Information & Communication Technologies, Grant

No: CA20137 <https://gendervoices.eu/>

Duties: Sustainability Coordinator, Management Committee member representing Greece, Work Group 3 on “Gender Dimension in Research” – Leader of the “**Gender Dimension in AI research**” topic

Project Grant: **790.000 Euros**

2019–2024

CyberCarto

Cybercartographies: Developing powerful multimodal geovisualization instruments for understanding and communicating geospatial data

ELIDEK Professional Development Grant for Senior Academics <http://cybercarto.ntua.gr/>

Duties: Leader of the Work Package on Multimodality in Cybercartography
Principle Investigator: Prof. Marinos Kavouras, National Technical University of Athens, School of Rural and Surveying Engineering, Ontological Research in Geographic Information Science Group
Project Grant: **186.250 Euros**

2022-2023

GIL4W

Greek Innovation Lab for Women: Partnership for Norwegian Transfer of Knowledge to boost the female expertise in R&I and entrepreneurship in Greece

EEA Grants – Grant No: 5161728

Duties: Member of the Coordination Team – leading the AI and Gender topic
Project Grant: **62.000 Euros**

2017–2021

Wearable Robots

Wearable Robots for Augmentation, Assistance or Substitution of Human Motor Functions

ESF-COST-Information & Communication Technologies, Grant No: IC16116 http://www.cost.eu/domains_actions/ict/Actions/IC1307

Duties: Management Committee member representing Greece, Member of Work Group 1: Foundational Science, Leader of *Cognitive Action Analysis for Wearable Robots* theme
Project Grant: **798.143 Euros**

2017–2020

RoboCom++

Rethinking robotics for the robot companion of the future

FLAG-ERA Joint Transnational Research

<https://www.flagera.eu/funded-projects/>

Duties: CSRI Principle Investigator (sole participant from Greece)
EC Grant: **2.825.012 Euros**, Total Budget: **4.216.718 Euros**

2016 – 2019

FocusLocus

ADHD management gaming system for educational achievement and social inclusion

H2020-ICT-201601, Grant No: 732375

<http://focuslocus.eu>

Duties: CSRI Project Manager
EC Grant: **2.000.000 Euros**

2014–2018

iV&L Network

The European Network on Integrating Vision and Language: Combining Computer Vision and Language Processing for Advanced Search, Retrieval, Annotation and Description of Visual Data

ESF-COST-Information & Communication Technologies, Grant No: IC1307
http://www.cost.eu/domains_actions/ict/Actions/IC1307

Duties: Vice Chair of the Network, Leader of Work Group 1: Vision-Language Integration Models, Management Committee member representing

Greece

EC Grant: **635.077 Euros**

2013–2015

GEOTHNK

Semantic pathways for building a spatially-thinking society

Funded by the European Commission, Lifelong Learning Programme, KA3 Multilateral projects, The Education, Audiovisual and Culture Executive Agency (EACEA), Grant No: 543451

<http://www.geothnk.eu/index.php/en/>

Duties: Leader of the *Multimodal Semantic Graph* Workpackage

Principle Investigator: Prof. Marinos Kavouras, National Technical University of Athens, School of Rural and Surveying Engineering, Ontological Research in Geographic Information Science Group

EC Grant: **399.824 Euros**, Total Budget: **533.099 Euros**

2013–2015

COGNIMUSE

Cognitive Perspectives of Multimodal Signal and Event Processing

Funded by the Greek Secretariat of Research & Technology and the European Commission (ARISTEIA I call)

<http://cvsp.cs.ntua.gr/research/cognimuse/>

Duties: Leader of the COSMOROE analysis task for multimodal summarisation

Principle Investigator: Prof. Petros Maragos, National Technical University of Athens, School of Electrical and Computer Engineering, Computer Vision and Pattern Recognition Group

GSRT Grant: **495.000 Euros**

2012–2015

POETICON++

Robots Need Language: A computational mechanism for generalisation and generation of new behaviours in robots

Funded by the EC-FP7-ICT-Call 7, Grant No: 288382

<http://www.poeticon.eu>

Duties:

- Scientific Co-ordinator of the project - Coordinator of a consortium comprising: CSRI & ILSP (EL), Italian Institute of Technology (IT), Istituto Superior Tecnico (PT), University of Plymouth (UK), University of Maryland (USA)
- CSRI and ILSP Principal Investigator

EC Grant: **3.880.000 Euros** (8% acceptance rate), Total Budget: **5.120.799,53 Euros**

2008–2011

POETICON

The “Poetics of Everyday Life”: Grounding Resources and Mechanisms for Artificial Agents

Funded by the EC-FP7-ICT-2007-1, Grant No: 215843

<http://www.csri.gr/Poeticon>

Duties:

- Administrative and Scientific Co-ordinator of the project - Coordinator of a consortium comprising: ILSP (EL), Italian Institute of Technology (IT), University of Maryland (USA), University of Ljubljana (SI) and Max Planck Institute (DE)
- ILSP Principal Investigator

EC Grant: **3.250.000 Euros** (8.6% acceptance rate), Total Budget: **4.273.544,71 Euros.**

2009 – 2010

Latsis Research Study

Image-Language Dialectics in Greek Caricatures

Funded by John Latsis Foundation

<http://www.cosmoro.eu>

Duties: Principal Investigator

Grant: **12,000 Euros** (2% acceptance rate)

2005 – 2007

CitizenShield/POLIAS

Greek General Secretariat for Research and Technology – Sound, Image, Language Call

Duties: PI for ILSP & main author of the proposal

GSRT Grant: **534,595 Euros**

2004 – 2007

REVEAL THIS

Retrieval of VidEO And Language for The Home user in an Information Society – Funded by the EC-FP6-IST

<http://sifnos.ilsp.gr/RevealThis>

Duties: Project management & research for the project coordinator (ILSP)

2000 - 2003

SOCIS

Scene Of Crime Information System

Funded by EPSRC, in collaboration with the University of Surrey

<http://www.dcs.shef.ac.uk/nlp/socis>

Duties: Main Researcher of the Sheffield project team.

2000.

CONCERTO

CONCEptual indexing, querying and ReTrieval Of digital documents,
Funded by the EU – ESPRIT

<http://concerto.pira.co.uk/>

Duties: Creation of the rules for the Named Entity Recognition task as member of the UMIST project team.

Number of Research Projects with core involvement: 21

Total grants as PI: 13

Total funds acquired as PI: approx. 24M Euros

Highlight: POETICON series projects (8 years duration of focused research & Coordination)

Teaching

2024-ongoing **National & Kapodistrian University of Athens, Department of Psychology**

MSc in CyberPsychology

- *Artificial Intelligence* (unique course offered to students with no technical background)

2021-ongoing **National & Kapodistrian University of Athens, Department of Computer**

Science & Athena R.C., Institute for Language and Speech Processing

MSc in Language Technology

- *Language and Cognitive Robotics* (unique offering internationally – open to international students through the CIVIS university alliance)

2018-2021 **The American College of Greece, Graduate School**

MSc in Data Science

- *Natural Language Processing for Data Science*
- *Search Engines and Web Mining*

2001-2004 **The University of Sheffield, Department of Computer Science**

MSc & BSc in Computer Science

- *Human Computer Interaction and Graphical Interfaces*

Number of different postgraduate courses taught: 5

Number of Graduate Students and Postdocs supervised (thesis or line management): 34

Number of PhD/MSc theses examined: 6

Supervision of Graduate Students & Postdocs

▪ Post-doc level

- Vassiliki Efstathiou (2013-2017) – line management for several research grants at ILSP & CSRI, now Data Science Manager at Kpler/MarineTraffic
- Argiro Vatakis (2008-2016) – line management for several research grants at ILSP and CSRI, now Associate Professor of Psychology at Panteion University
- Paschalis Veskos (2013-2016) - line management for several research grants at ILSP and CSRI, now Head of space industry projects at Software Competitiveness International S.A.
- Lorenzo Gregori (February – April 2017), “*Large Scale Knowledge Bases of Integrated Vision and Language Representations*”, University of Florence, Italy, Visiting PostDoc student.

▪ PhD level

- Eirini Katsadaki (2023-ongoing), *on Verbal Interaction in GIS systems*, PhD in Geographical Information Systems, National Technical University of Athens (co-supervision with Prof. Margarita Kokla)
- Aikaterini Papagiannaki (2021-ongoing), “*Iconic Gestures as a tool for instruction in classes with immigrants*”, PhD in Cognitive Science, Panteion University, Athens (co-supervision with Prof. Argiro Vatakis)

- Nicolas Vitucci (2012), “*Embodied Ontologies for the Semantic Web*”, Politecnico di Milano, visiting PhD student.
 - **MSc level**
- Eirini Balta (2008-2021) – line management for several research grants at ILSP & CSRI, now Senior Researcher at Panteion University.
- Panagiotis Dimitrakis (2008-2017) – line management for several research grants at ILSP & CSRI, now CTO in SentiGeek.
- Giorgos Karakatsiotis (2009-2013) - line management for several research grants at ILSP & CSRI, now co-Founder of and Lead Engineer in LightBuzz.
- Maria Lada (2008-2017) – line management for several research grants at ILSP & CSRI, now head of Languages and Linguistics at PIERCE College, American College of Greece
- Dimitris Mavroeidis (2010-2017) – line management for several research grants at CSRI, now Head of Artificial Intelligence and Innovations at Profile Software.
- Giannis Chalkiadakis (2025-ongoing), “*Robotic Foundation Models*”, MSc Internship, Archimedes Unit, Athena R.C.
- Artemis Chardouveli (2025-ongoing), “*Automatic knowledge-graph generation for multimodal Street Art*”, MSc in Language Technology, University of Athens & Athena R.C. & “*Robotic Foundation Models*”, MSc Internship, Archimedes Unit, Athena R.C.
- Christina Kalafati (2025-ongoing), “*Comparing LLMs in Embodied Concept Translation Tasks*”, MSc in Language Technology, University of Athens & Athena R.C.
- Eleftherios Kapernaros (2025-ongoing), “*Automatic detection of semantic complementarity in multimodal data*”, MSc in Language Technology, University of Athens & Athena R.C.
- Eleftheria Molou (2025-ongoing), “*LLM collective intelligence vs Humans in Object Description and Affordance Elicitation*”, MSc in Language Technology, University of Athens & Athena R.C.
- Andriana Dagla (2024-ongoing), “*Greek high-Stake, real-life, criminal cases dataset: extension and verbal deception annotation*”, MSc in Language Technology, University of Athens & Athena R.C.
- Anna Eleftheriou (2024-ongoing), “*Translating Embodied Concepts: The case of PLT data*”, MSc in Language Technology, University of Athens & Athena R.C.
- Aggelos-Mihail Sotirchos (2024-ongoing), “*Re-visiting the Basic Level Theory of Verbal Categorization: experimenting with action goals*”, MSc in Industrial System Automation, University of the Aegean.
- Iro Tyrokomaki (2024-ongoing), “*Re-visiting the Basic Level Theory of Verbal Categorization: experimenting with perceptual features*”, MSc in Language Technology, University of Athens & Athena R.C.
- Fay Poulou (2024-ongoing), “*Automatic detection of cognitive load in spontaneous speech: does motion ease the load?*”, MSc in Language Technology, University of Athens & Athena R.C.
- Eleni Karadimou (2024-ongoing), “*Employing Generative AI for Inclusive Language Recommender Systems*”, MSc in Language Technology, University of Athens & Athena R.C.
- Giorgos Kordonis (2024-ongoing), “*A Minimalist Action Grammar API for Unifying access in Cooking-Action Datasets*”, MSc in Language Technology, University of Athens & Athena R.C.

- Alexandra Rousoupolou (2024-ongoing), “*Employing generative AI for Knowledge Acquisition in Robotics*”, MSc in Language Technology, University of Athens & Athena R.C
- Alexandra Saivanidou (2024-ongoing), “*Augmenting Misogynistic Meme Datasets with COSMOROE relations*”, MSc in Language Technology, University of Athens & Athena R.C.
- Ioanna Skouvara (2024-ongoing), “*Automatic Social Story Generation*”, MSc in Language Technology, University of Athens & Athena R.C.
- Evripidis-Pavlos Katsionis (2025), “*Investigating Teachers’ Utilization of Generative Artificial Intelligence (AI) for Multimodal Composition in English as a Foreign Language*”, MSc in Language Technology, University of Athens & Athena R.C.
- Konstantinos Chaldaiopoulos (2024), “*Grounding visual communication in AI-agents: a case study*”, MSc in Artificial Intelligence, NCSR Demokritos and University of Piraeus (co-supervision with Stasinos Konstantopoulos)
- Eleni Antonakaki (2023), “*Detecting deceptive speech in high-stake criminal cases through verbal features: Systematic Review and Greek Dataset*”, MSc in Language Technology, University of Athens & Athena R.C.
- Vassiliki Moutzouri (2023), “*Cooking Action-Related Datasets in AI and Robotics: A Systematic Review*”, MSc in Language Technology, University of Athens & Athena R.C.
- Athina Savvinidou (2023), “*Automatic Misogyny Detection in Memes: A Systematic Literature Review*”, MSc in Language Technology, University of Athens & Athena R.C.
- Paraskevi Tsimbouki, (2018), “*Named Entity Recognition in the Aristotle Chatbot*”, MA in Digital Communication, The American College of Greece; thesis in collaboration with the **Silicon-Valey based startup, Bouquet.ai**.
- Maria Lada & Evi Badavanou (2008), “*Exploration of logical entailment in Multimedia Data*” (in Greek), MSc in Language Technologies offered in conjunction by the *University of Athens*-department of Linguistics, National Technical University of Athens-School of Computer Engineering and the Institute of Language and Speech Processing (co-supervision with S. Piperidis)

▪ **PhD / MSc Thesis Examiner**

- Alexia Mathiopoulou (2025), “*MovieBot: A personalised approach to Conversational Movie Recommendations*”. MSc in Language Technology, University of Athens & Athena
- Mohamadreza Faridghasemnia (2024), “*Grounding in Context: Studies in Robot Language Grounding in Real World Contexts*”, PhD in Artificial Intelligence, Örebro University, Sweden.
- Eleni Tsili (2024), “*A Voice Assistant for cooking based on a natural language to SPARQL transformation pipeline using Rasa*”, MSc in Language Technology, University of Athens & Athena R.C.
- Nicos Isaak (2021), “*A Fully-Fledged Approach to the Winograd Schema Challenge: Tackling, Utilizing and Developing Winograd Instances*”, PhD in Cognitive Systems, Open University of Cyprus.
- Marios Daoutis (2013), “*Knowledge Based Perceptual Anchoring: Grounding percepts to concepts in cognitive robots*”, PhD in Artificial Intelligence, Örebro University, Sweden.
- Myriam Mencke, (2007), “*Benchmarking a Text Classification Technique*”, MSc in Computer Science, The University of Dublin Trinity College.

Education

2001 - 2005	University of Sheffield, U.K. Ph.D. in Artificial Intelligence Thesis: <i>“Vision – Language Integration: a Double-Grounding Case”</i> Supervisor: Prof. Yorick Wilks
1999 - 2000	University of Manchester Institute of Science & Technology, U.K. MSc in Machine Translation Thesis: <i>“Basic Semantic Element Extraction: The rule-writing experience”</i> Supervisor: John McNaught Thesis: “A”. Average score in taught courses' examination: A-
1995 - 1999	National and Kapodistrian University of Athens, Greece BA in Greek Philology and Linguistics Final year project: <i>“The language of caricature: Language and drawing interaction”</i> - Awarded grade ‘A’ Supervisor: Prof. George Babiniotis GPA: 8.43
1996 - 1997	"DIDACTA" Educational Institution (Athens, Greece) Certificate of Secretarial Studies The Courses included: <i>Typewriting, Shorthand, Information Technology, Accounting, Introduction to Economics, Organisational Behaviour</i>
1992 - 1995	2nd Lyceum of Neo Psychiko, Athens, Greece Graduated with Excellent: 19.2
1989 - 1992	2nd High School of Neo Psychiko, Athens, Greece Graduated with Excellent: 19.8

Skills

- **Languages**

Greek:	Native
English:	Fluently <i>Certificate of Proficiency in English</i> , Cambridge University, 1994
French:	Fluently <i>Sorbonne 2 – Option: Literature</i> , University of Sorbonne, 1999
German:	Advanced Level equivalent to ' <i>Kleines Diplom</i> ' - Goethe Institute, 1999
Spanish:	Elementary
Ancient Greek &	
Latin:	Reading and Writing Knowledge

- **Computer Skills**

Operating Systems: DOS, Windows, UNIX, LINUX

Programming: Python, ProLog, LISP, Perl, Java, shell-programming

Web-related: HTML, XML, VRML, Javascript, Drupal, Joomla, Wordpress CMS

Indexing & retrieval platforms: Elasticsearch, Apache Solr

Crawlers: Apache Nutch

Video-editing & movie creation: Adobe Premiere, Sony Vegas, Pure Motion – EditStudio, Camtasia

Miscellaneous: EMACS, LATEX

Studentships – Awards

2025 1st place (Sept. 2025) in the LSUN competition (a competition based on SALICON, the largest dataset for human visual saliency prediction) with “anmodel” developed by graduate student Konstantinos Chaldaopoulos in the framework of the DeepViSaTL project.

2011 Google Inc.
Funding for the AAAI 2011 workshop on “Language and Action Tools for Artificial Agents”.

2011 EU Cognition Network
Funding for the AAAI 2011 workshop on “Language and Action Tools for Artificial Agents”.

2010. Maria Laimou Foundation
Grant for post-doctoral research

2006. NATO
Grant covering fees and accommodation/subsistence cost for participating in the NATO Advanced Study Institute on “*The Fundamentals of Verbal and Non-verbal Communication and the Biometrical Issue*” Vietri sul Mare, Italy (2-12 September 2006)

2006. Aim@Shape Network of Excellence
Grant covering fees, accommodation and subsistence cost for participating in the Aim@Shape summer school on the “Application of 3D Shapes: Ontologies, Software Tools and Industrial Case Studies”, Tallinn, Estonia (19-25 July 2006)

2006. DELOS and MUSCLE Networks of Excellence
Grant covering the fees for participating in the Joint DELOS-MUSCLE summer school on Multimedia Digital Libraries, Machine Learning and cross-modal technologies for access and retrieval, San Vincenzo, Italy (12-17 June 2006)

2003. European Network in Human Language Technologies
Funding and travel grants for organising the EACL workshop on the Evaluation of Natural Language Processing Technologies

2002 **Paper Award** – British Computer Society Special Interest Group in Artificial Intelligence Conference (cf. publications section)

2002 European Union - IHP
Grant covering the whole cost of attending the 10th ELSNET Summer School (on the Evaluation and Assessment of Text and Speech Systems), in Odense, Denmark (15 - 26 July 2002).

2001 European Union - IHP
Grant covering the whole cost of attending the 9th ELSNET Summer School (on Text and Speech Corpora), in Prague, Czech Republic (16 - 27 July 2001).

1995.- 1999 University of Athens - Department of Bursaries and Awards
Bursary covering the whole duration of undergraduate studies.

1995 - 1999 Greek Merchant Marine - Department of Awards
Annual monetary awards for excellence in higher education.

1989 - 1995 Awards for excellence, every year of High School and Lyceum studies.

Paper/system awards: 2

Individual postdoc research grants: 1

Multi-annual Honorary awards for academic performance: 3

Participation/event organisation/resources awards: 9

Total: 15

Highlights:

Google Award,

Paper Award,

LSUN competition

Open Access Resources (Datasets & Tools)

Open Access Datasets: 9
Open source software: 3 – Total Contributions: 12
Core involvement in all, co-developed with own lab members

▪ COSMOROE Dataset Collection (CMR)

Datasets related to the COSMOROE semantics theory (Pastra, 2008) as employed for analysing a diverse type of multimodal and multisensory data ranging from TV Travel Series to Hollywood Movies and Newspaper Caricatures.

- i. **COSMOROE TV-Travel Dataset** (2015 version available through COSMOROE search engine - www.cosmoro.eu) - 2025 update pending public release ([doi: 10.5281/zenodo.11616733](https://doi.org/10.5281/zenodo.11616733))

The dataset comprises **manual annotations** of two TV Travel Series Episodes (approx. 2 hours of audiovisual data, one in greek, one in english) with regards to **10 dimensions**: (a) speech transcription, (b) scene and graphic text recognition, (c) acoustic event identification, (d) visual object identification (incl. contours), (e) gesture identification, (f) body movement identification, (g) body movement complement identification (agent, tool, affected object, location of the action), and (h) cross-media semantic relation identification (i.e., semantic relations holding between verbal and visual elements employing the COSMOROE framework); (i) all visual elements are tagged/labeled (verbal categorisation), and (j) both transcribed speech, scene/graphic text and visual element tags have been translated in English and Greek. The annotated data can be fully navigated through the COSMOROE search engine (www.cosmoro.eu). COSMOROE annotation specification files for use with the ANVIL and/or ELAN annotation tools are also enclosed.

- ii. **COSMOROE Hollywood Movie Dataset** (part of the 2017 Cognimuse Database <http://cognimuse.cs.ntua.gr/database>) - ([doi: 10.5281/zenodo.11624344](https://doi.org/10.5281/zenodo.11624344)) – 2025 updated version (pending public release)

The dataset comprises **manual annotations** of first part of the known Hollywood Movie “Gone with the Wind” (approx. 104 minutes) with regards to **10 dimensions**: (a) speech transcription, (b) scene and graphic text recognition, (c) acoustic event identification, (d) visual object identification, (e) gesture identification, (f) body movement identification, (g) body movement complement identification (agent, tool, affected object, location of the action), (h) natural process identification and (i) cross-media semantic relation identification (i.e., semantic relations holding between verbal and visual elements employing the COSMOROE framework); (j) all visual elements are tagged/labeled (verbal categorization). All annotation is in English.

iii. COSMOROE Newspaper Caricatures Dataset

Pastra, K., Balta, E., Dimitrakis, P., Lada, M., & Mpantavanou, E. (2024). *COSMOROE Newspaper Caricatures Dataset (1.0) [Data set]*. Zenodo. <https://doi.org/10.5281/zenodo.11624626>

The dataset comprises **manual annotations** of 50 greek newspaper caricatures of the caricaturist Yiannis Ioannou along **9 dimensions**: (a) scene and graphic text recognition, (b) visual object identification, (c) implied gesture identification, (d) implied body movement identification, (e) body movement complement identification (agent, tool, affected object, location of the action), (f)

implied natural process identification and (g) cross-media semantic relation identification (i.e., semantic relations holding between verbal and visual elements employing the COSMOROE framework); (h) all visual elements are tagged/labeled (verbal categorization). All annotation is in Greek. Furthermore, the dataset includes a **semantic graph representation of the multimodal message** expressed in each caricature, and a full verbalization of the corresponding message (**verbal translation of the multimodal message**).

▪ **POETICON Lithic Tool Experiment Dataset Collection (PLT)**

A series of datasets related to the POETICON Lithic Tool Experiments on verbal elicitation of object attributes and affordances described in the Vatakis and Pastra (2016) Nature paper. Resources marked as ‘pending public release’ are temporarily withheld due to corresponding publication peer-reviewing processes.

i. PLT Audiovisual Recordings & Transcripts Dataset

Vatakis, Argiro; Pastra, Katerina (2015). *A multimodal dataset of spontaneous speech and movement production on object affordances*. figshare. Collection. <https://doi.org/10.6084/m9.figshare.1457788>

Audiovisual files of the actual recordings that took place during the POETICON Lithic Tool experiment comprising approx. 95 hours of spontaneous speech (124 speakers). The files are accompanied with the corresponding speech to text transcripts. Acoustic events (e.g., sneezing, clapping), non-speech segments (e.g., prolonged periods of silence), and speech phenomena (e.g., corrections, fillers) have also been transcribed.

ii. PLT Gesture & Exploratory Actions Dataset

(doi: [10.5281/zenodo.11625002](https://doi.org/10.5281/zenodo.11625002)) - 2025 (pending public release)

The dataset comprises **1.092 instances of gestures** and **11.209 instances** of exploratory actions performed by participants in the POETICON Lithic Tool Experiment Recordings. **Six types of gestures** have been annotated including: a) emblems, b) deictic, c) metaphoric: pictorial gestures for abstract concepts, d) iconic-pantomime: gestures for the enactment of actions and object features, e) pantomime-metaphoric: gestures for the enactment of actions with the hand mimicking the tool, and f) demonstrations: the actual enactment of the use of an object with no goal attained, and **10 types of exploratory actions**.

iii. PLT Object Attributes & Affordances Associations Dataset

(doi: [10.5281/zenodo.11625130](https://doi.org/10.5281/zenodo.11625130)) - 2025 (pending public release)

Verbal association data comprising everyday objects, their attributes and affordances as elicited in the POETICON Lithic Tool experiment. The data is much larger than any other available dataset in the related state of the art. It comprises more than **6.000 unique object-attribute associations** and **9.000 unique object-use associations**. (Forthcoming release to include data available in Greek, English and French).

iv. PLT Object Attribute & Affordances Argumentation Data

(doi: [10.5281/zenodo.11624914](https://doi.org/10.5281/zenodo.11624914)) - 2025 (pending public release)

A collection of **5597 arguments** elicited in the POETICON Lithic Tool experiments; it comprises **justifications, conditionals, comparisons and analogies** provided by participants using free speech. The arguments are open domain, in the sense that they refer to common sense knowledge rather than domain-specific, expert knowledge, including justification of object type or use given particular object attributes, conditions under which an object may be used for specific actions and so on.

v. PLT Embodied Concepts Dataset

(doi: [10.5281/zenodo.11624849](https://doi.org/10.5281/zenodo.11624849)) - 2025 (pending public release)

The dataset comprises multimodal data from the POETICON Lithic Tool Experiments classified into **2.942 unique object/entity types, 1.356 unique perceptual features, 583 unique affordances/goals** employing the Minimalist Grammar of Action (Pastra and Aloimonos, 2012). XML files of the corresponding annotation schemes for the semantic and movement-related analysis of the concepts are also included in the dataset. The dataset is in Greek. English and French translations are also provided by professional humans & LLMs.

- **POETICON Corpus** (<http://poeticoncorpus.kyb.tuebingen.mpg.de/>) - 2011

This was the first corpus of language use and sensorimotor experience recordings in everyday human:human interaction, in which spontaneous language communication has been recorded along with corresponding multiview video recordings, recordings of 3D full body kinematics, and 3D tracking of objects in focus. The corpus has been developed within the EU-funded project POETICON, and represents a new type of language resources for cognitive systems. Namely, a corpus that reveals the dynamic role of language in its interplay with sensorimotor experiences and allows one to computationally model this interplay.

- **COSMOROE Search Engine**

www.cosmoro.eu - original release 2015, updated since

A custom-made search engine for exploring audiovisual files that have been annotated with COSMOROE semantic relations, capturing cross-media interaction.

- **PLT Embodied Concept & Relations Exploration and Clustering Tool**

Pastra, K., & Dimitrakis, P. (2024). *PLT Embodied Concepts & Relations Exploration & Clustering Tool* (2.0.0). Zenodo. <https://doi.org/10.5281/zenodo.11624716>

A graphical user interface for exploring the semantic annotation of the verbal reports produced in the POETICON Lithic Tools Experiment (PLT) with 124 participants, 95 hours of spontaneous speech (Vatakis and Pastra, 2016). The interface allows for search by embodied concept type and subtype (e.g. concrete entity, movement, feature -shape, size and others-, abstract concepts, abstract features and so on) and provides the verbal context in which each concept was produced. It also allows clustering/merging of embodied concepts when specific conditions are met (advanced user functionality).

- **PRAXICON Semantic Memory GitHub Project**

<https://github.com/CSRI/PraxiconDB>

Open source code of the original PRAXICON database in two forms: relational and graph, as well as the corresponding graphical user interface. The database application programming interface (API) has been developed in JAVA.

Peer Reviewed Publications

▪ Theses

Katerina Pastra (2005), “*Vision-Language Integration: a Double-Grounding Case*”, PhD Thesis, Department of Computer Science, University of Sheffield, U.K.

Katerina Pastra (2000), “*Basic Semantic Element Extraction: the rule-writing experience*”, Msc Dissertation, UMIST, U.K.

▪ Monographs

Katerina Pastra, E. Balta, P. Dimitrakis, E. Bandavanou and M. Lada (2009), “*Image-Language Dialectics in Greek Caricatures*”, I. Latsis Foundation, Research Studies 2009 (monograph in Greek).

▪ Edited Books & Journal Special Issues

Tsintotas, K. A., Kansizoglou, I., Pastra, K., Aloimonos, Y., Gasteratos, A., Sirakoulis, G. C., & Sandini, G. (2024). *Editorial: Enhanced human modelling in robotics for socially-aware place navigation*. Frontiers in robotics and AI, 11, 1348022. <https://doi.org/10.3389/frobt.2024.1348022>

Amir, A., S. Griffiths, V. Nitsch, Katerina Pastra, & T. Taniguchi (2018)(eds.), “*Towards Intelligent Social Robots: From Naive Robots to Robot Sapiens*”, *Workshop Proceedings of the International Conference on Intelligent Robots and Systems (IROS), Madrid, Spain*.

Katerina Pastra, F. Moens, K. Saenco, T. Tuitelaars (2018)(eds.), “*Vision and Language Integration Meets Multimedia Fusion*”, Special Issue, IEEE MultiMedia.

Katerina Pastra, A. Belz, E. Erdem, K. Mikolajczyk (2017)(eds.), “*Vision and Language Integration models*”, Proceedings of the 6th Vision and Language workshop, Association for Computational Linguistics, ACL anthology: <http://aclweb.org/anthology/W17-20>

Katerina Pastra, A. Belz, E. Erdem, K. Mikolajczyk (2016)(eds.), “*Deep Learning for Vision and Language*”, Proceedings of the 5th Vision and Language workshop, Association for Computational Linguistics, ACL anthology: <http://www.aclweb.org/anthology/W16-3200>

Katerina Pastra, A. Belz, L. Coheur, V. Ferrari, F. Moens, I. Vulic (2015)(eds.), “*Vision and Language meets Cognitive Systems*”, Proceedings of the 4th Vision and Language 2015 workshop, Association for Computational Linguistics, ACL anthology: <http://www.aclweb.org/anthology/W15-28>

Gabriela Csurka and Katerina Pastra (2009)(eds.), Special Issue on *Metadata Mining for Image Understanding*, Multimedia Tools and Applications Journal, vol. 42, Springer Verlag, ISSN: 1380-7501. Linked to:

Gabriela Csurka and Katerina Pastra (2008)(eds), “*Metadata Mining for Image Understanding*”, Proceedings of the 1st Metadata Mining workshop in conjunction with the Computer Vision Theory and Applications Conference (VISAPP 2008), Insticc Press, ISBN: 978-989-8111-24-1.

Katerina Pastra (2003)(ed.), “*Evaluation initiatives in Natural Language Processing: are evaluation methods, metrics and resources reusable?*”, Proceedings of the European Association for

Computational Linguistics 2003 workshop, Association for Computational Linguistics, ACL anthology: <http://www.aclweb.org/anthology/W03-2800>

- **Published Technical Reports**

Katerina Pastra (2015), “*COSMOROE Annotation Guide*”, CSRI Technical Report Series, CSRI-TRS-150201, Cognitive Systems Research Institute, ISSN 2407-9952.

Katerina Pastra and Yiannis Aloimonos (2011), Technical Report of the AAAI 2011 Workshop on "Language-Action Tools for Cognitive Artificial Agents: Integrating Vision, Action and Language", Technical Report WS-11-14, AAAI Press.

Katerina Pastra, Horacio Saggion and Yorick Wilks (2003), "SOCIS: *Scene of Crime Information System - EPSRC IGR Review*", Department of Computer Science, University of Sheffield.

Katerina Pastra, Horacio Saggion, Yorick Wilks (2001), "SOCIS: *Scene of Crime Information System*", Technical Report, DCS-19-01, Department of Computer Science, University of Sheffield.

- **Journal Articles and Chapters in Collective Volumes**

Katerina Pastra, Margarita Kokla, Eleni Tomai, Fotis Liarokapis, Maria Bezerianou, Athanasia Darra, Kostas Cheliotis & Marinos Kavouras (2025). *Mapping Olfactory Memories: Digital Maps as an Interactive Medium for Olfactory Cultural Heritage*. In: Liarokapis, F., Shehade, M., Aristidou, A., Chrysanthou, Y. (eds) Interactive Media for Cultural Heritage. Springer Series on Cultural Computing. Springer, Cham. https://doi.org/10.1007/978-3-031-61018-9_5

Kostas Cheliotis, Fotis Liarokapis, Margarita Kokla, Eleni Tomai, Katerina Pastra, Niki Anastopoulou, Maria Bezerianou, Athanasia Darra & Marinos Kavouras (2024). *UnityGeoAR: A geolocation Augmented Reality package for Unity3D*. SoftwareX, Volume 27, 101774, ISSN 2352-7110. <https://doi.org/10.1016/j.softx.2024.101774> Elsevier Publishers.

Katerina Pastra (2023). “*Robotics in Education: exciting or essential?*”, In: Marchetti A. and D. Massaro (eds). “*Social Robotics and Education: Interactions, Applications and Novel Frontiers*”. Chapter 9, pp. 139-154. Psychology of Education: Development and Educational Processes Series. Raffaello Cortina Publications, ISBN 9788832855579 (in Italian).

Eleni Tomai, Margarita Kokla, Christos Charcharos, Katerina Pastra, Fotis Liarokapis, Maria Bezerianou, Kostas Cheliotis, Athanasia Darra & Marinos Kavouras (2023). “*Investigating the relationship between spatial skills and web mapping application performance among university students*”. Cartography and Geographic Information Science, 50:5, 515-530, DOI: 10.1080/15230406.2023.2224584.

Niki Anastopoulou, Margarita Kokla, Eleni Tomai, Kostas Cheliotis, Fotis Liarokapis, Katerina Pastra & Marinos Kavouras (2023). “*Cartographic perspectives on spatial and thematic levels of detail in augmented reality: a review of existing approaches*”. International Journal of Cartography, vol. 9:2, 373-391. DOI: 10.1080/23729333.2023.2228592.

Kostas Cheliotis, Fotis Liarokapis, Margarita Kokla, Eleni Tomai, Katerina Pastra, Niki Anastopoulou, Maria Bezerianou, Athanasia Darra & Marinos Kavouras (2023). “*A systematic review of application development in augmented reality navigation research*”. Cartography and Geographic Information Science, 50:3, 249-271.

Wray R., Taatgen N., Lebriere C., Pastra K., Pirolli P., Rosenbloom P., Scheutz M., Stewart T., and Wiles J. (2019), "Functional Knowledge Requirements for Interactive Task Learning", In: *Interactive Task Learning: Agents, Robots, and Humans Acquiring New Tasks through Natural Interactions*, edited by K. A. Gluck and J. E. Laird. Strüngmann Forum Reports, vol. 26, ch. 3. J. R. Lupp, series editor. Cambridge, MA: MIT Press

Zlatintsi A., Koutras P., Evangelopoulos G., Malandrakis N., Efthymiou N., Pastra K., Potamianos A., and Maragos, Petros (2017), "COGNIMUSE: a multimodal video database annotated with saliency, events, semantics and emotion with application to summarization", EURASIP Journal on Image and Video Processing.

Vatakis A., and Pastra K. (2016), "A multimodal dataset of spontaneous speech and movement production on object affordances", Nature - Scientific Data 3, Article number: 150078.

Kavouras M., Kokla M., Tomai E., Darra A. and Katerina Pastra (2016), "GEOTHNK: A Semantic Approach to Spatial Thinking", in Gartner, G., Jobst, M. & Huang, H. (Eds.), *Progress in Cartography: EuroCarto 2015*, Springer International Publishing, pp. 319-338.

Katerina Pastra (2014), "Beware of the Label", Editorial, IEEE Computational Intelligence Society, Newsletter on Autonomous Mental Development, vol. 11, number 1, ISSN 1550-1914.

Katerina Pastra (2013), "Autonomous Acquisition of Sensorimotor Experiences: Any Role for Language?", Editorial, IEEE Computational Intelligence Society, Newsletter on Autonomous Mental Development, vol. 10, number 2, ISSN 1550-1914.

Katerina Pastra and Yiannis Aloimonos (2012), "The Minimalist Grammar of Action", Philosophical Transactions of the Royal Society B, 367(1585):103.

Katerina Pastra (2010), "From Lexicon to PRAXICON: language-action-image semantic relations", in K. Potagas and I. Evdokimidis (eds), Conversations on Language and Action, Aiginiteion Series, pp. 143-172, Synapseis Publishers, ISBN:9789606723117 (in Greek).

Katerina Pastra, Dimitrakis P., Balta E. and Karakatsiotis G. (2010), "PRAXICON and its language-related modules", Lecture Notes in Computer Science, vol. 6040, pp. 27-32, Springer Verlag.

Katerina Pastra (2008), "COSMOROE: A Cross-Media Relations Framework for Modelling Multimedia Dialectics", Multimedia Systems Journal, vol 14(5), pp. 299-323, Springer Verlag.

Katerina Pastra and Stelios Piperidis (2006), "Video Search: New challenges in the Pervasive Digital Video Era", Journal of Virtual Reality and Broadcasting, volume 3, number 11.

Katerina Pastra (2006), "An alternative suggestion for vision-language integration in intelligent agents", in Lecture notes in Artificial Intelligence, vol. 3955, pp. 588-591.

Horacio Saggion, Katerina Pastra, Yorick Wilks (2003), "Using Natural Language Processing for Semantic Indexing of Scene-of-Crime Photographs", Lecture Notes in Computer Science, vol. 22588, pp. 526-536, Springer Verlag.

Katerina Pastra, Horacio Saggion, Yorick Wilks (2003), "Intelligent Indexing of Crime-Scene Photographs", IEEE Intelligent Systems, Special Issue on "Advances In Natural Language Processing", vol. 18 (1), pp. 55-61.

Katerina Pastra, Horacio Saggion and Yorick Wilks (2003), "Extracting relational facts for indexing and retrieval of crime-scene photographs", in Knowledge-Based Systems, vol. 16 (5-6), pp. 313-320, Elsevier Science.

- **Conference & Workshop Papers**

Kostas Cheliotis, Fotis Liarokapis, Margarita Kokla, Eleni Tomai, Katerina Pastra, Athanasia Darra, Maria Beserianou, Marinos Kavouras (2021), “A Classification of Augmented Reality Approaches for Spatial Data Visualization”, Proceedings of ISMAR 2021.

Marinos Kavouras, Margarita Kokla, Fotis Liarokapis, Katerina Pastra & Eleni Tomai (2021), “A Comparative Study of the Interaction of Digital Natives with Mainstream Web Mapping Services”, Proceedings of the 23rd International Conference on Human-Computer Interaction (HCI), Washington D.C., USA.

Vassiliki Efstathiou and Katerina Pastra (2015), “*Early language acquisition: an enactive cognition analysis on CDI understanding scores of infants aged 8-18 months*”, Proceedings of the Workshop on Extensive and Intensive Recordings of Children's Language Environment (WEIRCLE), Paris, France.

Athanasia Zlatintsi, P. Koutras, N. Efthymiou, P. Maragos, A. Potamianos and K. Pastra (2015), “*Quality Evaluation of Computational Models for Movie Summarization*”, in Proc. 7th Int'l. Workshop on Quality of Multimedia Experience (QoMEX-2015), Costa Navarino, Messinia, Greece, May 2015.

Paschalis Veskos and Katerina Pastra (2014), “*Perspectives of Robot Action Generalisation: Challenges and Achievements*”, Proceedings of the International IEEE Workshop on Autonomous Cognitive Robotics, Stirling, UK.

Argiro Vatakis, Katerina Pastra and Panagiotis Dimitrakis (2014), “*Acquisition of object knowledge through Exploratory Acts*”, 15th International Multisensory Research Forum (IMRF), 11-14 June, Amsterdam, NL.

Marinos Kavouras, S. Sotiriou, A. Baglatzi, N. Darra, M. Kokla, A. Lazoudis, K. Pastra, and E. Tomai. (2014), “*Semantic Pathways For Geospatial Thinking*”, In International Conference On Learning Innovations And Learning Quality (Linq).

Argiro Vatakis, Katerina Pastra and Panagiotis Dimitrakis (2012), “*Acquiring object affordances through touch, vision, and language*”, 13th International Multisensory Research Forum (IMRF), University of Oxford, UK. Also published in Seeing and Perceiving, 25, p.64.

Katerina Pastra, E. Balta, P. Dimitrakis, G. Karakatsiotis (2011), “*Embodied Language Processing: a new generation of language technology*”, in Proceedings of the AAAI 2011 International Workshop on “Language-Action Tools for Cognitive Artificial Agents: Integrating Vision, Action and Language”, San Francisco, USA.

Christian Wallraven, M. Schultze, B. Mohler, A. Vatakis and Katerina Pastra (2011). “*The POETICON enacted scenario corpus - a tool for human and computational experiments on action understanding*”, in Proceedings of the 9th IEEE conference on Automatic Face and Gesture Recognition (FG'11).

Katerina Pastra, Wallraven C., Schultze M., Vatakis A. and Kaulard K. (2010), “*The POETICON corpus: Capturing language use and sensorimotor experience in everyday interaction*”, in Proceedings of the 7th Language Resources and Evaluation Conference (LREC), Valletta, Malta.

Wallraven C., M. Schultze, B. Mohler, E. Volkova, I. Alexandrova, A. Vatakis, K. Pastra (2010), “*Understanding Objects and Actions – A VR Experiment*”, Joint Virtual Reality Conference (JVRC'10).

Katerina Pastra and Eirini Balta (2009), "A Text-Based Search Interface for Multimedia Dialectics", in Proceedings of the System Demonstration Session of the 12th Conference of the European Association for Computational Linguistics, pp. 53-56, Athens, Greece.

Katerina Pastra (2008), "PRAXICON: the development of a grounding resource", in Proceedings of the 4th International Workshop on Human-Computer Conversation, Bellagio, Italy.

Katerina Pastra and Stelios Piperidis (2006), "Crossing media for video search: enabling usability beyond traditional broadcast and TV", in Proceedings of the 4th European Interactive TV conference (EuroITV), Athens, Greece.

Katerina Pastra (2006), "Beyond multimedia integration: corpora and annotations for cross-media decision mechanisms", in Proceedings of the 5th Language Resources and Evaluation Conference (LREC), pp. 499-504, Genoa, Italy.

Katerina Pastra (2006), "Image-Language association: are we looking at the right features?", in Proceedings of the OntoImage International Workshop on "Language resources for content-based image retrieval", pp. 40-43, Genoa, Italy.

Stelios Piperidis, Xaris Papageorgiou, Katerina Pastra & the REVEAL THIS consortium (2006), "Multimedia Content Processing and Retrieval in the REVEAL THIS setting", First International Conference on Semantic and Digital Media Technologies, Athens, Greece.

Katerina Pastra (2004), "Viewing Vision-Language Integration as a Double-Grounding Case", in Proceedings of the American Association of Artificial Intelligence (AAAI) Fall Symposium on "Achieving Human-Level Intelligence through Integrated Systems and Research", pp. 62-67, Washington D.C. USA.

Katerina Pastra and Yorick Wilks (2004), "Vision-Language Integration in AI: a reality check", in Proceedings of the 16th European Conference on Artificial Intelligence (ECAI), pp. 937-941, Valencia, Spain.

Katerina Pastra and Yorick Wilks (2004), "Image-Language Multimodal Corpora: needs, lacunae and an AI synergy for annotation", in Proceedings of the 4th Conference on Language Resources and Evaluation (LREC), pp. 767-770, Lisbon, Portugal.

Katerina Pastra, Horacio Saggion (2003), "Colouring Summaries BLEU", in Proceedings of the European Association of Computational Linguistics (EACL) Workshop on "Evaluation initiatives in Natural Language Processing: are evaluation methods, metrics and resources reusable?", pp. 32-39, Hungary, Budapest.

Katerina Pastra, Horacio Saggion, Yorick Wilks (2003), "NLP for indexing and retrieval of captioned photographs", in Proceedings of the Conference of the European Association of Computational Linguistics (EACL) (Research Notes), pp. 143-146, Budapest, Hungary.

Katerina Pastra, Horacio Saggion, Yorick Wilks (2002), "Extracting relational facts for indexing and retrieval of crime-scene photographs", in "Applications and Innovations in Intelligent Systems X", British Computer Society Conference Series, pp. 121-134, Springer Verlag. (Selected as one of the **best papers** of the Application Stream of the conference).

Katerina Pastra, Diana Maynard, Oana Hamza, Hamish Cunningham, Yorick Wilks (2002), "How feasible is the reuse of grammars for Named Entity Recognition?", Proceedings of the 3rd Conference on Language Resources and Evaluation (LREC), pp. 1412-1418, Canary Islands, Spain.

Katerina Pastra, Horacio Saggion (2001), “*The language at the scene of the crime -Analysing Crime-Scene reports*”, in Proceedings of the 5th Biennial Meeting of the International Association of Forensic Linguistics, 30 June - 2 July 2001, Malta.

Editor Service

- Research Topic on *Enhanced Human Modeling in Robotics for Socially-Aware Place Navigation*, Frontiers in Robotics and Artificial Intelligence (co-editor with K. Tsintotas, I. Kansizoglou, G. Sirakoulis, A. Gasteratos, Y. Aloimonos, G. Sandini) (2023-ongoing)
- *Interaction Studies*, John Benjamins Publishing - Associate Editor (2021 – ongoing)
- *Cognitive Computation and Systems*, Institution of Engineering and Technology (IET), Associate Editor (2018 – ongoing)
- Research Topic on *Language and Cognition*, Frontiers in Robotics and Artificial Intelligence (co-editor with Nikos Mavridis) (2015 – 2017) Invited Talks, Tutorials, Interviews

Theses and Monographs: 3

Edited Books and Special Issues: 9

Published Technical Reports: 4

Journal Articles and Book Chapters: 21

Conference and Workshop Papers: 21

Conference/Workshop Extended Abstracts: 5

Journal Editor: 4

Total peer reviewed publications: 63

Highlights:

**Nature (2016) & Philosophical
Trans. of the Royal Society B (2012)**

Invited Talks, Tutorials, Interviews

Invited Talks: 68

(incl. 12 as Keynote Speaker in Scientific events, 7 addressed to the General Public, and 5 addressed to High-School students and/or staff)

Invited Lecturer-Trainer in Summer Schools: 8

Interviews: 4

Venues ranging from European Parliament, to TedX, to University of Cambridge and others

Scientific audiences ranging from Social Sciences and Humanities (Cognitive Science, Psychology, Linguistics, Archaeology, Philosophy), to Computer Science & Engineering (Robotics, Artificial Intelligence, Data Science) to Life Sciences (Neuroscience) and others.

Katerina Pastra (20 September 2025), “*Living with AI: How it already changes our world*”, Invited Speaker, Symposium on “*AI: Pandora’s box or Amaltheia’s Corn?*” organised by Athena RC, The Society of Methoni’s Castle Friends, and the Region of the Peloponese, Methane Castle, Greece.

Katerina Pastra (July-August 2025), “*We are on our way to Green AI*”, Interview to Ecotec, a monthly magazine for Technology and Environment.

Katerina Pastra (5 May 2025), “*Living with AI: How it already changes our world*”, Invited Speaker, Symposium on “*Literature, Illustration and AI: present, future and challenges*” organised by the Female Literature Society, Athens Cultural Center, Greece.

Katerina Pastra (3 May 2025), “*Living with AI: How it already changes our world*”, Invited Speaker, Workshop on AI organised by the Historical Museum of Alexandroupolis, and the Municipality of Alexandroupolis, Greece.

Katerina Pastra (6 April 2025), Invited Panelist, Round Table on “*AI in Education*”, Region of Attica, Beyond Innovation Arena, Metropolitan Expo, Athens, Greece.

Katerina Pastra (15 February 2025), “Recent developments in using AI for scientific discovery and research”, Invited Speaker, Workshop on “*Current Developments in Artificial Intelligence and Effects in Science and Education*”, Athens, Greece.

Katerina Pastra (11 December 2024), “Living with AI: how it already changes our world”, Invited Speaker, Erasmios Greek-German School, Athens, Greece.

Katerina Pastra (6 November 2024), Invited Panelist at “*Unleashing Breakthroughs through Gender-Sensitive Research*”, Falling Walls Science Summit, Berlin, Germany.

Katerina Pastra (31 October 2024), “*Frugal Robots: introducing sustainability in multiple time-scales of robotic behaviour and interaction with humans*”, Invited speaker at the AASS Cognitive Robotics Laboratory Seminar Series, Örebro University, Sweden.

Katerina Pastra (12 September 2024), “*Minimalist Brains: the cognitive view of AI*”, Invited speaker at the “*Cognitive Robotics & AI*” Workshop, Hellenic Conference in Artificial Intelligence, (SETN), Piraeus, Greece.

Katerina Pastra (11 September 2024), Invited Round Table Participant at “*Women and Leadership*”, event organized by ELIDEK and the U.S National Endowment for Humanities, Athens, Greece.

Katerina Pastra (24-27 June 2024), “*Language Grounding & Embodied Learning*”, Invited lecturer and Trainer an the “*Embodied AI*” PhD Summer School, Örebro University, Sweden.

Katerina Pastra (18 June 2024), “*Generative AI technologies for Education: ‘Tell me muse, of the tool of many ways...’*”, Invited Speaker at the Erasmios Greek-German High School Teachers’ Continuous Education Workshop, Pallini, Greece.

Katerina Pastra (30 May 2024), “*PRISMA Protocol: Basics, best practices and case studies in AI and Robotics*”, Main Speaker at the Hybrid Webinar, Athena R.C., Athens, Greece.

Katerina Pastra (24 April 2024), “*Dangerous Affairs: AI and You*”, Invited Speaker at the interdisciplinary PSL Doctoral College Seminar Series “*Raising Awareness on History*,

Epistemology and Ethics in Science”, Institut Curie, Université Paris Sciences et Lettres (PSL), Paris, France.

Katerina Pastra (11 February 2024), “*Science and Technology need Women: Go forth fearlessly*”, Interview (tribute to 5 distinguished Greek women scientists) to the most popular online magazine for women and girls in Greece, Queen.gr. <https://www.queen.gr/power-to-inspire/empowerment/story/270906/katerina-pastra-i-epistimi-kai-i-texnologia-exoun-anagki-tis-gynaikeis-proxoriste-afoya>

Katerina Pastra (7 December 2023), “*Dangerous Affairs: the ‘Want to’, the ‘Can do’ and the ‘Must do’ of Artificial Intelligence*”, Invited Speaker at the half-day open to the public workshop entitled “*Artificial Intelligence: Do we want it?*”, organized by the Theoretical Magazine “The AUDIENCE of the nice arts”, Myrtilon Venue, Athens, Greece.

Katerina Pastra (22 September 2023), “*Multifaceted statistical analysis of the ATHENA R.C. diversity, equity and inclusion survey*”, Invited Talk addressed to all ATHENA R.C. staff, Athens, Greece.

Katerina Pastra (5-7 July 2023), “*Gender dimension in digital technology/AI research and innovation*”, Trainer and Coordinator of the Digital Technologies thematic stream, VOICES Training School, Athena Research Center/Impact Hub, Athens, Greece.

Katerina Pastra (6 June 2023), “*Language, thought and awareness in the ChatGPT era*”, Invited Speaker at the Hellenic Association of Cognitive Science Workshop on “*Artificial Intelligence and Consciousness: Origins, Trends, Future*”, Athens, Greece.

Katerina Pastra (11 January 2023), “*Language, Robots and Dangerous... GPTchats*”, Invited Speaker at ILSP/ATHENA Internal Seminar Series, Athens, Greece.

Katerina Pastra (09 January 2023), “*Bias in Large Language Models*”, Invited Speaker, VOICES Working Group 3 Seminar Series (online event).

Katerina Pastra (15 May 2022), “Can language make robots more intelligent?”, aMAZEing Robot Challenge Workshop and Competition, Technical University of Crete, Chania, Greece, <https://www.youtube.com/watch?v=oehZeerYvBI> (in greek)

Katerina Pastra (27 February 2022), Radio Interview by Aspasia Vouzi, in the “Here and Now” Programme, 102 FM, ERT3 (national radio channel) on “*Greeks and Artificial Intelligence*” - <https://bit.ly/3uF8JvR> (in greek)

Katerina Pastra (25 February 2022), “*Gender Equality Plans*”, Athena R.C., Athens, Greece.

Katerina Pastra (25 February 2022), Interview by the Cognihub Postgraduate Students Group, on “*The person behind the Scientist*” - https://www.youtube.com/watch?v=55m_woy8rHU (in greek)

Katerina Pastra (21 October 2021), “*Language, Memories and Dangerous Things*”, Invited Speaker at the Open University of Cyprus, Visiting Professors Lecture Series, Nicosia, Cyprus.

Katerina Pastra (22 September 2021), “*Language, Memories and Dangerous Things*”, Invited Speaker in the iCog Workshop “POETICON-Reloaded: Challenges and Way-Forward in developing Cognitive Architectures”, online.

Katerina Pastra (8 March 2020), “*Women researchers: challenges and opportunities*”, Invited Speaker in the ATHENA R.C. lunch-break workshop for the Women’s Day, online.

Katerina Pastra (6 September 2019), “*Who’s afraid of big, bad wolf? Humanities at the cross-roads with Life Sciences and Engineering*”, Invited Speaker in the Annual ‘Vocational Guidance by Inspirational Professionals’ Event, Pierce College, Athens, Greece.

Katerina Pastra (30 August 2019), “*To trust or not to Trust?*”, Invited Panel Chair in the “*Trust in Relationship: from Human to Robot*”, workshop of the 19th European Conference on Developmental Psychology, Athens, Greece.

Katerina Pastra (1 April 2019), “*Who’s afraid of big, bad wolf? Humanities at the cross-roads with Life Sciences and Engineering*”, Invited Speaker in the Annual ‘Vocational Guidance by Inspirational Professionals’ Event, Pierce College, Athens, Greece.

Katerina Pastra (29 August 2018), “*The minimalist grammar of action*”, Invited Speaker at the 2nd Management and Working Group meeting of the Wearable Robotics Network, Enschede, The Netherlands.

Katerina Pastra (22 June 2018), “*Research Challenges in Artificial Intelligence*”, Invited Panelist and Speaker at the Digital Assembly 2018 workshop on 'AI – Today and Tomorrow', Sofia, Bulgaria.

Katerina Pastra (27 March 2018), “*Who’s afraid of big, bad wolf? Humanities at the cross-roads with Life Sciences and Engineering*”, Invited Speaker in the Annual ‘Vocational Guidance by Inspirational Professionals’ Event, Pierce College, Athens, Greece.

Katerina Pastra (27 March 2018), “*The European Network on Vision-Language Integration: A Greek COST Project Success Story*”, Invited Speaker, COST Info-Day in Greece, NCSR Demokritos, Athens, Greece.

Katerina Pastra (22 February 2018), “*Bring my memory back! Semantic Memories in the service of Translators and Interpreters*”, Keynote Speaker at ELIA Together, European Language Industry Association, Athens, Greece.

Katerina Pastra (9 February 2018), “*Humanoids capable of merging: Fundamental cognitive mechanisms for meaning creation in the motoric, perceptual and language space*”, Keynote Speaker at the VVV winter school on Humanoid Programming, Santa Margerita, Italy.

Katerina Pastra (01 November 2017), “*Recursion all the way: in Language, Action and Semantic Association*”, Keynote Speaker at the International Workshop on Artificial Intelligence and Cognition (AIC), Larnaka, Cyprus.

Katerina Pastra (06 September 2017), “*Vision and Language Integration for Knowledge Representation*”, Invited Lecturer and Trainer at the 3rd Vision and Language Integration Summer School, Athens, Greece.

Katerina Pastra (25 August 2017), “*Recursion all the way: in Language, Action and Semantic Association*”, Keynote speaker at the International Workshop on Grounding Language Understanding, International Speech Communication Association (ISCA), Stockholm, Sweden.

Katerina Pastra (27 May 2017), “*Revisiting 'Ars Grammatica' or how to convince your child that learning grammar is useful*”, Invited Speaker, TedX Chalkida, Chalkida, Greece. <https://www.youtube.com/watch?v=drbN5qySYvI> (in greek)

Katerina Pastra (10 May 2017), “*Recursion all the way: in Language, Action and Semantic Association*”, Invited Speaker, Demokritos Research Center Seminar Series, Athens, Greece.

Katerina Pastra (06 June 2016), “*Recursion all the way: in Language, Action and Semantic Association*”, Keynote speaker at the ModelAct Conference, Rome, Italy.

Katerina Pastra (23 May 2016), “*PRAXICON: a semantic network of recursive and multisensory conceptual structures for robots*”, Invited Speaker, Geoinformatics Lecture Series, National Technical University of Athens (NTUA), Athens, Greece.

Katerina Pastra (03 February 2016), “*Cross-media Semantic Relations in Multimedia Discourse – a cognitive perspective*”, Invited Speaker, iV&L network meeting, Rijeka, Croatia.

Katerina Pastra (07 November 2015), “*Semantics, Networks and Technology: When Learning Pathways incorporate Cognitive Concept Maps*”, Keynote Speaker, GEOTHNK Conference, Athens, Greece.

Katerina Pastra (12 March 2015), “*Language and Vision Integration in the POETICON++ Project*”, Invited Speaker, iV&L network meeting, Heidelberg, Germany.

Katerina Pastra (18 November 2014), “*Fundamental Mechanisms for Cognitive Robots: The POETICON Contribution*”, Keynote Speaker, Humanoids 2014 Workshop on Cognitive Robotics, Madrid, Spain.

Katerina Pastra & Dimitris Mavroeidis (31 May 2014), “*When Semantic Language Resources meet Cognitive Systems*”, Tutorial at the 9th Language Resources and Evaluation Conference, Reykjavic, Iceland.

Katerina Pastra (22 March 2014), “*The grammar of..Action*”, Invited Speaker, Interactive Exhibition of Science and Technology, open to the public, Evgenideio Foundation, Athens, Greece.

Katerina Pastra (3 October 2013), “*Robots need a Semantic Memory: Going beyond one-shot learning in Robotics*”, Invited Speaker, Xperience Project Summer School on Robots bootstrapped through learning from experience, Mallorca, Spain.

Katerina Pastra (23 July 2013), “*PRAXICON: towards a semantic memory like module for robots*”, Invited Lecturer-Trainer, International Research-Centered Summer School in Cognitive Systems and Interactive Robotics, Social Media, Digital Preservation, Athens, Greece.

Katerina Pastra (25-26 June 2013), “*Bridging Language, Perception and Action: the Cognitive Context of Machine Translation*”, Invited Lecturer-Trainer, Plymouth University Cognition Institute Summer School on Bilingual Minds, Bilingual Machines, Plymouth, U.K.

Katerina Pastra (7 June 2013), “*Syntax: Where Language and Action Meet*”, Keynote Speaker, Hellenic Cognitive Science Symposium, Athens, Greece.

Katerina Pastra (24 May 2013), “*Scientific Presentations and Communication of Scientific Results*”, Invited Speaker, Demokritos Research Center Seminar Series, Athens, Greece.

Katerina Pastra (18-19 March 2013), “*Robots with Syntax, Robots with Memory: from one-shot learning to generalization*”, Invited Lecturer and Hands on Trainer, RobotDoc – POETICON+ + Spring School on Developmental Robotics and Cognitive Bootstrapping, Athens, Greece.

Katerina Pastra (25 January 2013), “*Knowledge representation for Robotic Applications*”, Invited Lecturer, National Technical University of Athens, Department of Geographical Information Systems, Greece.

Katerina Pastra (18 January 2013), “*An Action-centric Structure for a Semantic Memory for Robots*”, Invited Speaker, Orebro University, Department of Science and Technology, Sweden.

Katerina Pastra (14 December 2012), “*Are all verbs equal? Language in Action in the Embodied Cognition Perspective*”, Invited Speaker, Vision & Language Network, Annual Meeting, Sheffield, U.K.

Katerina Pastra (28 March 2012), “*Robots need Language*”, Keynote Speaker, Working lunch on “European research leadership in robotics”, Altiero Spinelli Building, European Parliament, Brussels, Belgium.

Katerina Pastra (22 February 2012), “*The POETICON and POETICON++ Projects*”, Invited Speaker, EU project presentations session, International Conference on Cognitive Systems, Vienna, Austria.

Katerina Pastra (17 February 2012), “*Language, Cognition and Multimedia: The Art of Caricatures*”, Invited Speaker, BCA Lecture Series, Athens, Greece.

Katerina Pastra (2 December 2011), “*Robots: myths, reality and intelligence*”, Keynote Speaker, European Robotics Week Event organised by CSRI and AUEB, Athens University of Economics and Business, Athens, Greece.

Katerina Pastra (7 August 2011), “*The minimalist grammar of action and the role of language*”, Host Speaker, AAAI 2011 Workshop on “Language-Action Tools for Cognitive Artificial Agents: Integrating vision, action and language”, San Francisco, USA.

Katerina Pastra (26 June-16 July 2011), *Lecture series on Action, Language and Vision*, Invited Lecturer and Trainer, Telluride Neuromorphic Cognition Engineering Summer School, Telluride, Colorado, USA.

Katerina Pastra (14 June 2011), “*Bridging language, action and perception: the cognitive context of machine translation*”, Invited Speaker, ICANN 2011 workshop on “Context in Machine Translation”, Espoo, Finland.

Katerina Pastra (27 January 2010), “*PRAXICON: a grounded, compositional & generative concept world*”, Invited Speaker, EU Project Presentations, 4th International Conference in Cognitive Systems (CogSys 2010), ETH, Zurich, Switzerland.

Katerina Pastra (18 June 2009), “*Lithic tools and language references: exploring language-action associations for a... PRAXICON*”, Invited Speaker, University of Parma, Final Project Meeting of the FP6-NEST project Hand2Mouth, Parma, Italy.

Katerina Pastra (7 May 2009), “*From Lexicon to...PRAXICON: language-image-action associations*”, Invited Speaker, Institute of Archaeology, University College of London, London, U.K.

Katerina Pastra (19 December 2008), “*PRAXICON: correlation of natural language, human body movements and images for artificial agents*”, Invited Speaker, Computer Vision Speech Communication and Signal Processing Group, National Technical University of Athens, Athens, Greece.

Katerina Pastra (13 December 2008), “*From Lexicons to PRAXICONS: language-motion and images for artificial agents*”, Invited Speaker, Language and Motion talk series, Neuropsychology Unit, Aiginition Hospital, Athens, Greece.

Katerina Pastra (02 April 2008), “*The poetics of everyday life: grounding resources and mechanisms for artificial agents*”, Invited Speaker, EU project presentations session, International Conference on Cognitive Systems, Karlsruhe, Germany.

Katerina Pastra (15 February 2008), “*The POETICON project*”, Invited Speaker, Athena Research Centre Seminar Series, Athens, Greece.

Katerina Pastra (07 December 2007), “*Using linguistic terms to talk about semantics in a multimedia context*”, Invited Speaker, Department of German Language and Linguistics, University of Athens, Greece.

Katerina Pastra (19 June 2007), “*REVEAL THIS and the COSMOROE cross-media relations framework*”, Invited Speaker Natural Language Processing Group Seminar Series, Department of Computer Science, University of Sheffield, Sheffield, U.K.

Katerina Pastra (05 September 2006), “*Towards an all-inclusive cross-media decisions framework*”, Contributors short presentation in the NATO Advanced Study Institute on “*The Fundamentals of Verbal and Non-verbal Communication and the Biometrical Issue*” Vietri sul Mare, Italy.

Katerina Pastra (20 July 2005), “*Vision-Language integration: a double-grounding case*”, Invited Speaker, Institute for Language and Speech Processing Seminar Series, Athens, Greece

Katerina Pastra (03 December 2003), “*Automatic indexing and retrieval of crime-scene photographs: having recourse to Natural Language Processing*”, Invited Speaker, Natural Language and Information Processing Group, University of Cambridge, U.K.

Katerina Pastra and Horacio Saggion (23 March 2001), “*Analysing Crime Scene Reports: the SOCIS project*”, Invited Speaker, Forensic Linguistics Group, University of Birmingham, U.K.

Project and Proposal Reviewing

R&D Projects reviewed: 6 (for whole duration)

Proposal Reviewing for 11 different Research Funding Organisations

Proposal Reviewing for 6 different ICT units/agencies of the European Commission

Proposal and Project reviewing activity spanning more than 17 years

More than 350 proposals reviewed

Danish Innovation Fund (2015-ongoing)

Proposal Reviewer focussing on the R&D and the look forward perspective and industrial relation of the proposals

French National Research Agency (ANR) (2014-ongoing)

R&D Proposal Reviewer for the Chistera Calls

European Commission Health and Digital Executive Agency (2022-ongoing)

R&D Proposal and Project Reviewer, Vice-Chair for proposal reviewing

European Commission Science in Society Unit (2020-ongoing)

R&D Proposal Reviewer

European Commission Inclusive and Reflective Societies Unit (2017-ongoing)

R&D Proposal Reviewer

European Commission Complex Systems and Advanced Computing Unit (2016-ongoing)

R&D Proposal Rapporteur

European Commission Robotics and AI Unit (2014-ongoing)

R&D Proposal Reviewer

European Commission DataValue Chain Unit (2010-ongoing)

R&D Project and Proposal Reviewer

European Cooperation In Science and Technology (COST) (2014-ongoing)

Networking activities proposal reviewer

Eurostars-Eureka (2014-ongoing)

Reviewer of proposals by R&D performing SMEs

Marie Curie Individual Fellowships (2020-ongoing)

Reviewer of Post-doc Fellowships

European Innovation Council (2017-ongoing)

Reviewer of R&D proposals on Future and Emerging Technologies / Pathfinder

Wallenberg AI, Autonomous Systems and Software Program, Sweden

R&D Proposal Reviewer

Levelhume Trust, U.K.

R&D Proposal Reviewer

National Technical University of Crete, Greece

R&D Proposal Reviewer

Economic and Social Research Council, U.K.

R&D Proposal Reviewer

Organisation of Scientific Meetings

International Training School Organisation: 4
International Workshop Organisation: 19
Conference Programme Chair: 1
Talk-Series Organisation: 5 (different organisations)
Training Seminar Series Organisation: 2

- Programme Chair of the International Conference “Greeks in AI” (19-20 July, 2025), Serafeio Conference Center, Athens, Greece.
- Co-organiser of the Workshop on “*Current Developments in Artificial Intelligence and Effects in Science and Education*”, (15 February 2025), Athens, Greece; co-organisation with Profs. Eirini Skopeliti, Stella Vosniadou and Petros Gelepithis.
- Organiser of the GEARNET Webinar Series 2024-2025 on Issues related to Diversity, Equity and Inclusion (Inclusive Language – 16/10/24, Gender Based Violence and Harassment - 2/12/2024, Digital Accessibility - 29/01/2025, Neurodiversity - 19/3/2025, Health & Safety at work - 2/07/2025, Mental Health - 2/07/2025).
- Organiser of the GEARNET Workshops 2024-2025 (1/07/24 & 2/12/2024 on Gender Based Violence and Harassment, 2/7/2025 on Health and Safety at work).
- Organiser of the Members Talk Series of the Hellenic Artificial Intelligence Association (2025-ongoing) on several AI topics (including AI in Health, AI ethics, etc.).
- Co-organiser of the *Athens NLP* 2024 Training School (19-24 September), Athens, Greece; co-organisation with colleagues from Google Deepmind, Athena R.C., AUEB, and NCSR-Demokritos).
- Co-organiser of the 1st “*Cognitive Robotics & AI*” Workshop (12 September), satellite event of the National Conference in Artificial Intelligence, Department of Informatics, University of Piraeus, Greece; co-organisation with Yiannis Aloimonos, Antonis Argyros, Antonis Gasteratos and Kostas Tsintotas.
- Organiser of the “*Using the PRISMA protocol: Basics, Best Practices and Case Studies in AI and Robotics*” Hybrid Training Seminar Series (30/5/2024); co-organised with postgraduate students who present their work as case studies.
- Co-organiser and local host of the VOICES 2023 Training School on “*Breaking the Bias*”, 5-7 July 2023, Athens, Greece. (Co-organised with Vivian Stamou, Anita Thaler and Clemens Striebing).
- Co-organiser of the IJCAI-ECAI 2022 Seminar “*Towards Diversity, Equity and Inclusion (DEI) in AI Research*”, 23rd of July, 2022, Vienna, Austria.
- Organiser of the ATHENA R.C. monthly Seminar Series “*Listen, Learn and Connect*” (2022-2024).
- Co-organiser of the 1st Workshop on *Human-Centric Sciences and Technologies in Greece*, 20-21 October 2022, Xanthi, Greece.
- Co-organiser of the “*Break the Bias in Science and Technology*” Webinar, Athena R.C., 8 March 2022, Online Event. <https://www.athenarc.gr/en/events/breakthebias>
- Organiser of the iCog initiative half-day workshop on “*Poeticon-Reloaded: Cognitive Architectures*”, 22 September 2021, Online event.

- Co-organiser of the Workshop on “*A Beyond State-of-the-Art Role of Geovisualization in the Understanding of the World*”, 8 June 2021, online event.
- Co-organiser of the Workshop on “*Towards Intelligent Social Robots: from naïve robots to robot sapiens*”, 5 October 2019, IEEE International Conference on Intelligent Robots (IROS), Madrid, Spain.
- Organiser of the European Training School on “*Vision and Language Integration in Cognitive Robotics*”, September 4-6 2017, Athens, Greece. (<http://ivl-net.eu/ivl-net-training-school-2017/>).
- Co-organiser of the Workshop on *Vision and Language* (VL'17), April 4 2017, at the 15th Annual Meeting of the European Association for Computational Linguistics (EACL), Valencia, Spain. (<http://vision.cs.hacettepe.edu.tr/vl2017>).
- Co-organiser of the Workshop on “*Vision-Language Integration meets Multimedia Fusion*”, October 16 2016, at the ACM-Multimedia Conference, Amsterdam, The Netherlands. (http://liir.cs.kuleuven.be/Workshop_iv.html).
- Co-organiser of the Workshop on *Vision and Language* (VL'16), August 12, at the 54th Annual Meeting of the Association for Computational Linguistics (ACL), Berlin, Germany. (<http://vision.cs.hacettepe.edu.tr/vl2016>).
- Co-organiser of the Workshop on Vision and Language 2015 (VL'15): “*Vision and Language Integration Meets Cognitive Systems*”, hosted by the 2015 Conference on Empirical Methods in Natural Language Processing (EMNLP 2015), September 17-21, 2015, Lisbon, Portugal. (<https://sites.google.com/site/vl15workshop/>).
- Organiser of the POETICON++ ICDL-EPIROB Satellite Symposium on “*Action Generalization: What happens when Language, Perception and Action join forces?*”, 16 October 2014, Genoa, Italy.
- Organiser of the AISB Symposium on “*Embodied vs. Simulated Behaviour and Cognition: What could Robotics contribute to Language Sciences?*”, 1-4 April 2014, London, U.K.
- Organiser of the ROBOTDOC-POETICON++ Spring School on “*Developmental Robotics and Cognitive Bootstrapping*”, 18-21 March 2013, Athens, Greece.
- Cross-media Semantics: *COSMOROE relations – A training seminar series*, Cognitive Systems Research Institute, June 2012 & February 2013, Athens, Greece.
- Organiser of the two-day AAAI 2011 workshop on “*Language-Action Tools for Artificial Agents: Integrating Vision, Action and Language*”, August 2011, San Francisco, USA.
- Organiser of the one-day POETICON workshop on “*Language Grounding for Artificial Agents*”, December 2009, Athens, Greece
- Organiser of the POETICON-ILSP interdisciplinary talk series on “*Natural Language, Neuropsychology and Cognitive Systems*” (2009 - 2010), ILSP, Athens (in collaboration with Dr Argiro Vatakis).
- Co-chair of the International Conference on Computer Vision Theory and Applications 2008 - Workshop on: “*Metadata Mining for Image Understanding*”, January 2008, Madeira, Portugal (Collaboration with Dr. Gabriela Csurka, Visual Content Research Group, Xerox Research Centre, Grenoble, France).
- Organiser of the European Association for Computational Linguistics 2003 - Workshop on: “*Evaluation initiatives in Natural Language Processing: are evaluation methods, metrics and resources reusable?*”, April 2003, Budapest, Hungary (awarded funding by the European Network in Human Language Technologies - ELSNET).

- Organiser of the Institute for Language, Speech and Hearing (ILASH) half-day workshop series (2000-2004), University of Sheffield: *Dialogue Systems* (April 2004), *Human Language Technologies for the Semantic Web* (March 2004), *Biomedical text processing* (October 2003), *Issues on the definition and creation of Ontologies* (May 2003), *Automatic Summarization* (April 2003), *Multimedia Information Processing* (February 2003), *Multimedia Information Retrieval in the U.K.* (November 2002), *Multimodal perception and reasoning: cognitive processes and disorders* (Oct. 2002), *Plagiarism Detection* (May 2002), *Minority Languages and Computation* (May 2002), *Computational Language Resources II* (February 2002), *Computational Language Resources I* (October 2001).

Academic Paper Reviewing

- ACM Transactions on Human-Robot Interaction, ACM
- Language Resources and Evaluation, Springer Verlag
- Natural Language Engineering, Cambridge University Press
- Multimedia Tools and Applications, Springer Verlag
- Interaction Studies, John Benjamins Publishing Group
- Information Processing and Management, Elsevier Science
- Cognitive Science Conference (CogSci)
- EuroAsianPacific Conference in Cognitive Science (EAP-CogSci)
- Epigenetic Robotics Conference(ICDL_EPIROB)
- Humanoids Conference
- Association for Computational Linguistics (ACL) - conference
- Recent Advances in Natural Language Processing Conference (RANLP) - main conference and satellite workshops
- Language Resources and Evaluation Conference (LREC) – main conference and satellite workshops
- European Conference in Information Retrieval (ECIR)
- Designing for User Experience Conference (DUX)
- International Workshop Series on Language Technology for Cultural Heritage, Social Sciences and Humanities
- CVPR workshops and challenges on Looking at people and faces of the world (ChaLearn 2015-ongoing)
- Variety of Vision and Language Integration workshops (2014 – ongoing, in almost any workshop with such topic)
- Variety of Workshops on Cross-Media Information Access and Mining (2009 – ongoing)
- Conference Session Chairing in Natural Language Processing sessions and Multimedia Corpora and Tools sessions (variety of conferences) (2008-ongoing)