

Curriculum
Vitae

2025

Dr. Konstantinos Kotis

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Summary

Konstantinos Kotis (ORCID <https://orcid.org/0000-0001-7838-9691>) owns a B.Sc. in Computation from University of Manchester (UMIST), UK and a Ph.D. in Information Management (Knowledge Representation & Management) from the University of the Aegean, Greece. He is currently a tenure track associate professor at the Dept. of Cultural Technology and Communication of the University of the Aegean, a member of the Intelligent Systems Lab, and a research associate of the Dept. of Digital Systems of the University of Piraeus (a member of the AI lab). He is currently leading the Semantic Web and IoT research group of i-Lab (<https://i-lab.aegean.gr/groups/semantic-technologies-group/>). His research interests include but not limited to Knowledge Engineering, Semantic data management, Semantic IoT, KG-based Conversational/Generative AI. He has published more than 150 papers (Google Scholar h-index:25, >3000 citations) in peer-reviewed international journals (incl. IJDST, KAIS, ILE, IJKEDM, FGCS, IEEE IS, IJWGS, IJMISO, Applied AI) and conferences (incl. ESWC, ISWC, KSEM, IJCAI, VLDB) and served as reviewer and reviewer in several journals and conference events (incl. IEEE IS, IEEE TKDE, ACM TIoT, KAIS, JWS, J.UCS, IJDMMM, ICTAI, IJCAI). He has also participated in several national and international projects, including among them, Grid4All (FP7, 2008), iCore (FP7, 2012), Internet of Things (Finnish Tivit/Tekes, 2012), AMINESS (Greek Research & Technology General Secretary, 2014), datAcron (H2020, 2016), Time Machine (H2020, 2019), GreenHeritage (Erasmus LS, 2022), FAIR-PReSONS (JUST, 2024).

Teaching keywords: AI (info. retrieval, knowledge engineering, semantic web, ontologies), Software Engineering (OO development, (semantic) Web development, Mobile apps), Data Science (semantic data management), Internet/Web of Things (semantic modeling, semantic interoperability).

Research keywords: Knowledge/Ontology Engineering, Semantic Web and applications, Semantic Data management (RDFization, alignment, integration, visualization), Semantic Interoperability in IoT, Ontology-Based Data Access and Integration, Linked Data, KGs and Conversational AI, LLMs.

Technical keywords: Ontology Alignment Framework, JENA, OWL API, Linked Open Data, Java, XML, XSD, XSLT, RDF, OWL, SPARQL, C#, HTML, CSS, WordPress, JavaScript, PHP.

Memberships:

- Computer Applications and Quantitative Methods in Archaeology – Greece (CAA-GR / CAA Greece)
- W3C Community/Working Groups: Web of Things, Schema Extensions for IoT
- Hellenic Society of Artificial Intelligence (EETN),
- Marie Curie Association Alumni (MCAA),
- Time Machine Organization (TMO)

Awards:

- ERCIM “Allain Bensoussan” (Marie-Curie) fellowship at post-doc level (VTT Technical Research Center of Finland, 2011-12), EU
- **Best paper award:** A. [Pliatsios](#), C. [Goumopoulos](#), and K. [Kotis](#), "[Interoperability in IoT: A vital key factor to create the “Social Network” of Things](#)", Thirteenth International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies, UBICOMM 2019, Porto, IARA, 09/2019.
- **Best paper award:** Educational AI Chatbots for Content and Language Integrated Learning by Kleopatra Mageira, Dimitra Pittou, Andreas Papasalouros, Konstantinos Kotis, Paraskevi Zangogianni and Athanasios Daradoumis, <https://www.mdpi.com/journal/applsci/awards/2191>

1. Personal Details

Name: Konstantinos
Last Name: Kotis
Birth Date: 5-03-1973
Birthplace: Samos, Greece
Nationality: Greek
Languages: Greek (native), English (fluent), German (basic)
Marital Status: Married, 2 children
Home Address: S. Choutzaίου 9A, Lesvos, Greece
Phone: +30 6974822712
E-mail: kotis@aegean.gr, kotis.kostas@gmail.com
Web Pages: <http://i-lab.aegean.gr/kotis>, <http://i-lab.aegean.gr/swot>
Skype: kotis_konstantinos
LinkedIn: <http://gr.linkedin.com/in/kotis>
Twitter: <https://twitter.com/KotisK>

Researcher Details:

Web of Science ResearcherID: B-1883-2009
Scopus Author ID: 8951329800
Orchid ID: 0000-0001-7838-9691

Publons: <https://publons.com/researcher/2870237/konstantinos-kotis/>
Orchid: <https://orcid.org/0000-0001-7838-9691>

2. Studies

2.1 Higher Education

- (2000-2005) PhD in Information Management, Department of Information and Communications Systems Engineering, University of the Aegean, Greece. (Grade: “Excellent”)
PhD title: “Design and Implementation of collaborative and human-centered ontology engineering environments”.
Supervisor: Prof. George A. Vouros, University of the Aegean.
Research outcomes: state-of-the-art human-centered collaborative ontology engineering methodology (HCOME) and a prototype system.
- (1992-1995) Bachelor degree (BSc Hons) in Computation, University of Manchester Institute of Science and Technology, UK. (Class 2:2).
- (1990-1992) College Degree in Computation, KORELKO college, Athens, Greece

2.2 Seminars

- (11/2015) Training in Management of Departments, National Centre for Public Administration and Local Government (EKDDA), Samos (5 days)
- (10/2015) 3rd GCC Seminar: A Cyber Crime Centre of Excellence for Training, Research and Education in Greece (Ministry of Internal Affairs), Athens (2 days)
- (11/2014) Advanced Training in eLearning (for tutors), National Centre for Public Administration and Local Government (EKDDA), Athens (2 weeks)
- (02/2013) e-Government and Citizens, National Centre for Public Administration and Local Government (EKDDA), Athens (5 days)
- (10/2012) ERCIM ABCDE Seminar II, Marie-Curie Action, Sophia Antipolis, INRIA, FR (2 days)

3. Professional appointments

3.1 Recent appointments

3.1.1 (Sept. 2024-2025) Vice-Head of Department of Cultural Technology and Communication, University of the Aegean

3.1.2 (Sept. 2024-2025) Director of Postgraduate studies, Cultural Informatics and Communication, Dept. of Cultural Technology and Communication, University of the Aegean

3.1.3 (Sept. 2023 - today) Associate Professor, Dept. of Cultural Technology and Communication, University of the Aegean

3.1.4 (January 2019 – July 2023) Assistant Professor, Dept. of Cultural Technology and Communication, University of the Aegean

- Full time professor and member of the Intelligent Systems Labs (Lesvos island, Greece):

Undergraduate courses:

- 1st year: Internet Technologies (**Dept. of Cultural Tech and Comm.**)
- 2nd year: Design and Development of Web sites and applications (**Dept. of Cultural Tech and Comm.**)
- 3rd year: Web Programming (**Dept. of Cultural Tech and Comm.**)
- 4th year: Semantic Web and IoT (**Dept. of Cultural Tech and Comm.**)

Postgraduate courses:

- Semantic Web and IoT (**Dept. of Information and Comm. Eng., and Dept. of Cultural Tech and Comm.**)
- Web and Digital Culture (**Dept. of Cultural Tech and Comm.**)

3.1.5 (late 2017 – early 2018) Sr. Researcher, Dept. of Computer Science, University of Houston

- Research, management and students' supervision at Computational Biomedicine Lab (CBL), and Borders, Trade and Immigration (BTI)

Institute.

3.1.6 (2016 - 2018) Lectureship, Postgraduate Program, Department of Digital Systems, University of Piraeus, Greece (part-time)

- Web Applications (HTML/WordPress, XML, RDF) course at e-Learning Postgraduate Program

3.1.7 (2013 - today) Research Associate, AI Lab, Department of Digital Systems, University of Piraeus, Greece (part-time)

- Research on semantic data management (RDFization, alignment, integration of data using semantic technologies), semantic interoperability and trust in smart environments/IoT, and Ontology-Based Data Access (OBDA) and Integration.
- Research projects (e.g. national project AMINESS, H2020 project datACRON) and proposals' preparation for H2020 (Cyber-Physical Systems, IoT and Big Data).
- Lecturing at Postgraduate level (Course: Web Applications).

3.1.8 (2000 – 2018) Head of IT dept., North Aegean Region Administrative Authorities (NARA), Samos, Greece (full-time)

- IT management
- Development projects' management
- Software/Web Sites development (WordPress, Joomla), Open Linked Data (D2RQ OBDA platform, SPARQL, RDF)

3.2 Past appointments

3.2.1 (20011-12) Post-Doc Researcher at VTT, Finland (ERCIM fellowship, Marie Curie and ABCDE program)

- One-year research program on 'semantic interoperability and smart environments'. The goal of the research program was to propose methods for automatically aligning smart entities (devices and software) in the Semantic Web of Things.

3.2.2 (2006-2010) Lecturer/Researcher Department of Information and Communications Systems Eng., University of the Aegean

3.2.2.1 Lectureship (2009 -2010)

- "Software Engineering" course in the Graduate School of the Department of Information and Communications Systems Eng., University of the Aegean
- "Knowledge Engineering" course in the Graduate School of the Department of Information and Communications Systems Eng., University of the Aegean
- "Ontologies and the Semantic Web" course in the Postgraduate School of the Department of Information and Communications Systems Eng., University of the Aegean

3.2.2.2 Lectureship (2008 - 2009)

- “Software Engineering” course in the Graduate School of the Department of Information and Communications Systems Eng., University of the Aegean
- “Knowledge Engineering” course in the Graduate School of the Department of Information and Communications Systems Eng., University of the Aegean
- “Ontologies and the Semantic Web” course in the Postgraduate School of the Department of Information and Communications Systems Eng., University of the Aegean

3.2.2.3 Assistant Professorship (2007 - 2008)

- “Ontologies and the Semantic Web” course in the Postgraduate School of the Department of Information and Communications Systems Eng., University of the Aegean
- “Databases” course in the Graduate School of the Department of Information and Communications Systems Eng., University of the Aegean

3.2.2.4 Lectureship (2006 - 2007)

- “Software Engineering” course in the Graduate School of the Department of Information and Communications Systems Eng., University of the Aegean
- “Ontologies and the Semantic Web” course in the Postgraduate School of the Department of Information and Communications Systems Eng., University of the Aegean

3.2.3 (2005-2006) Post-Doc Researcher, Ai-Lab, Department of Information and Communications Systems Engineering, University of the Aegean

- Research in “Knowledge Representation and Resource Description Languages”, Postgraduate Studies Department, Department of Information and Communications Systems Eng., University of the Aegean (Research and Lecturing activities).
- Design and implementation of an Ontology Mapping tool (AUTOMS: AUTomated Ontology Mapping through Synthesis of approaches)
- Participation in the design and Implementation of AUTOMS-F: Framework for AUTomated Ontology Mapping through Synthesis of approaches
- Participation in the Ontology Alignment Evaluation Initiative (OAEI) 2006 Contest, evaluating AUTOMS tool (4th place among 10 participants) and presentation of results in Ontology Matching International Workshop, Atlanta USA, 2006
- Invited Lectures in “Ontologies and Schema Languages on Semantic Web”, Postgraduate Course, Department of Information and Communications Systems Eng., University of the Aegean

4. Participation in Research and Development Projects

4.1 International-EU Research projects

- FAIR-PReSONS: Fair predictions of gender-sensitive recidivism, EU JUST project

- Role: Project coordinator, project manager, WP2 team leader
 - Period: 2024-2026
- GreenHeritage: The impact of Climate Change on the Intangible Cultural Heritage, Erasmus-LS project
 - Role: ICT VLE tool development, Course development and teaching (Web ICT tools for intangible cultural heritage preservation)
 - Period: 2022-2025
- RE-SAMPLE: REal-time data monitoring for Shared, Adaptive, Multi-domain and Personalised prediction and decision making for Long-term Pulmonary care, H2020 project
 - Role: research and development in Task 4.2, 4.5 (knowledge modeling)
 - Period: 2021-2025
- Time Machine: Big Data of the Past for the Future of Europe, H2020 Coordination and support action (CSA) – FETFLAG-2018-01
 - Role(s): co-author in Task 2.2 (Computation and AI)
 - Period: 2019-2020
- dataACRON: Big Data Analytics for Time Critical Mobility Forecasting, H2020 project
 - Role(s): proposal preparation, research on 'semantic annotation of streams'
 - Period: 2016-2019
- AMINESS: "Analysis of Marine Information for Environmentally-Safe Shipping", Greek General Secretariat for Research and Technology (GSRT) (Link: <http://aminess.eu/>)
 - Role(s): research and development
 - Period: 2013-2015
- iCore: "Empowering IoT through Cognitive Technologies ", FP7 project (Link: <http://www.iot-icore.eu/>)
 - Role(s): research and development
 - Period: 2011-2012
- Internet of Things, Finnish TEKES project: (Link: <http://www.internetofthings.fi/proj>)
 - Role(s): research and development
 - Period: 2011-2012
- "Usefil: Unobtrusive Smart Environments for Independent Living", FP7 project (<http://usefil.eu/>)
 - Role(s): research
 - Period: 2011-2012
- "OntoSum: Ontology Management and exploitation for text summarization". Project code: 1576, University of the Aegean, Research Funding Committee of Greece.
 - Role(s): research and development
 - Period: 2006-2008

- “Grid4All: democratize the Grid” Project no. 034567, Specific Targeted Research Project (STREP) IST project, FP6
 - Role(s): research
 - Period: 2006-2008

4.2 National Research and Development projects (in Greek)

Τίτλος	Προϋπολογισμός/ Χρηματοδότηση	Έναρξη	Υπεύθυνη Υπηρεσία/ Ρόλος	Κωδ. Έργου
Ηλεκτρονική Πύλη Εξυπηρέτησης Πολιτών της Ν.Α Σάμου	233.910,00€ (ΠΕΠ Β. ΑΙΓΑΙΟΥ)	2007	Δ/νση Πληροφορικής ΝΑ Σάμου/ Προετοιμασία και υποβολή πρότασης, Διοίκηση Έργου	87375
Ψηφιοποίηση πολιτιστικής- πολιτισμικής παράδοσης της Σάμου	266.401,07€ (ΠΕΠ Β. ΑΙΓΑΙΟΥ)	2007	Δ/νση Πληροφορικής ΝΑ Σάμου/ Προετοιμασία και υποβολή πρότασης, Διοίκηση Έργου	114904
Ενέργειες Ενημέρωσης και Ευαισθητοποίησης των πολιτών για την Ψηφιακή Σύγκληση	48.994,10€ (Γ' ΚΠΣ)	2008	Δ/νση Πληροφορικής ΝΑ Σάμου/ Προετοιμασία και υποβολή πρότασης, Διοίκηση Έργου	126764
Ανάπτυξη και Διάθεση Εφαρμογών Ηλεκτρονικής Επικοινωνίας και Ηλεκτρονικής Συμμετοχής για την Πρώθηση της Ευρυζωνικότητας στη Νομαρχιακή Αυτοδιοίκηση Σάμου	312.363,10€ (Γ' ΚΠΣ)	2009	Δ/νση Πληροφορικής ΝΑ Σάμου/ Προετοιμασία και υποβολή πρότασης, Διοίκηση Έργου, Ανάπτυξη Οντολογιών	302766
Παρουσίαση Μνημείων μέσω Διαδικτύου και DVD: Εκκλησία Αγίου Κηρύκου και Ιαματικές πηγές Ικαρίας	139.002,00€ (Interreg)	2007	Δ/νση Πληροφορικής ΝΑ Σάμου/ Προετοιμασία και υποβολή πρότασης, Διοίκηση Έργου	103534
Πρόληψη και περιστολή θαλάσσιας ρύπανσης σε εμπορικούς και τουριστικούς λιμένες (PREMARPOL)	147.500,00€ (Interreg)	2011	Τμήμα Πληροφορικής ΠΕ Σάμου/ Προετοιμασία και υποβολή πρότασης, Διοίκηση Έργου, Ανάπτυξη συστήματος αξιοποίησης δεδομένων	901032
DigiArc: Ψηφιακό Τόξο Πολιτισμού Ελλάδας – Κύπρου : Διάσωση και ανάδειξη της Μεσαιωνικής Πολιτισμικής Κληρονομιάς στην νησιωτική περιοχή του Αιγαίου και της Κύπρου	INTERREG V-A «Ελλάδα Κύπρος 2014-2020»	2019	Παν. Αιγαίου, Τ.Π.Τ.Ε. / Διοίκηση Έργου, Διαχείριση Περιεχομένου, Web	
Re-CULT: Ανάδειξη και διάδοση της πολιτιστικής και φυσικής κληρονομιάς μέσα από την ανάπτυξη	INTERREG V-A «Ελλάδα Κύπρος 2014-2020»	2019	Παν. Αιγαίου, Τ.Π.Τ.Ε. / Ανάπτυξη Εργαλείων ICT, Ψηφιοποίηση και τεκμηρίωση	

και θεσμική ενίσχυση του Θρησκευτικού Τουρισμού στη νησιωτική περιοχή της Ελλάδας και της Κύπρου				
Ψηφιακές Διαδρομές Σαμιακού Οίνου: Το κρασί σαν μέσο προβολής και προώθησης του πολιτιστικού αποθέματος της Σάμου	Επιχειρησιακό Πρόγραμμα «Βόρειο Αιγαίο 2014-2020	2019	Τμήμα Πληροφορικής ΠΕ Σάμου/ Προετοιμασία και υποβολή πρότασης	5032640
Ενίσχυση της αντίληψης χρωμάτων σε ψηφιοποιημένους πίνακες τέχνης για άτομα με Ανεπάρκεια Χρωματικής Όρασης	Ε.Π. «Ανάπτυξη Ανθρώπινου Δυναμικού, Εκπαίδευση και Δια Βίου Μάθηση», με την συγχρηματοδότηση της Ελλάδας και της Ευρωπαϊκής Ένωσης	2019	Παν. Αιγαίου, Τ.Π.Τ.Ε. / Αναπληρωτής Επιστημονικός Υπεύθυνος	
MemoBot: «Συνομιλώντας με τον Καζαντζάκη: Έξυπνες εμπειρίες Μεικτής Πραγματικότητας»	Ερευνώ-Δημιουργώ-Καινοτομώ (ΕΠΑνΕΚ), Παρέμβαση Ι	2020	Παν. Αιγαίου, Τ.Π.Τ.Ε. / Υπεργολάβος, Επιστημονικός Υπεύθυνος: Παροχή υπηρεσιών έρευνας και ανάπτυξης πλατφόρμας AI chatbot βασισμένη σε μεθόδους Μηχανικής Μάθησης, Επεξεργασίας Φυσικής Γλώσσας, και Γράφων Γνώσης	T2EDK-03334 ΕΛΕ ΠΑ - 80331
IMOC: «Έξυπνη Ανοιχτή Δημιουργική Πλατφόρμα Μουσείων»	Ερευνώ-Δημιουργώ-Καινοτομώ (ΕΠΑνΕΚ), Παρέμβαση Ι	2020	Παν. Αιγαίου, Τ.Π.Τ.Ε. / Υπεργολάβος, Μηχανική Γνώσης	T2EDK-00047
MuBot: «Έξυπνος ξεναγός σε Μουσεία»	Επιχειρησιακό Πρόγραμμα Περιφέρειας Κρήτης, Έρευνα και ανάπτυξη από ΜΜΕ, σε τομείς της RIS3Crete	2020	Παν. Αιγαίου, Τ.Π.Τ.Ε. / Υπεργολάβος, Μηχανική Γνώσης	
PaloAnalytics: Συνδρομητική πλατφόρμα ανάλυσης μεγάλου αριθμού διαδικτυακών αναφορών, εύρεσης insights και επιχειρηματικών ευκαιριών σε πολυγλωσσικό περιβάλλον	Ερευνώ-Δημιουργώ-Καινοτομώ (ΕΠΑνΕΚ), Παρέμβαση ΙΙ	2020	Παν. Αιγαίου, Τ.Π.Τ.Ε. / Ερευνητής, Ε3: Ανάπτυξη μηχανισμών εξαγωγής πληροφορίας από τα πρωτογενή δεδομένα	2989
Promote: Τεχνολογίες Πειθούς στον Τουρισμό	Επιχειρησιακό Πρόγραμμα Περιφέρειας Β. Αιγαίου 2014-2020”	2021	Παν. Αιγαίου, Τ.Π.Τ.Ε. / Υπεργολάβος, Μηχανική Γνώσης	MIS 5093219
Σύμπραξη Καινοτόμων Δράσεων Τουρισμού Υπαίθρου (JoinOuT)	Πρόγραμμα «Ανταγωνιστικότητα Επιχειρηματικότητα και Καινοτομία 2014-	2022	Παν. Αιγαίου, Τ.Π.Τ.Ε. / Υπεργολάβος, Διαχείριση Πληροφορίας και την Επιχειρηματική Ευφυΐα	ΓΓ2CL-0359457

	2020», ΣΥΝΕΡΓΑΤΙΚΟΙ ΣΧΗΜΑΤΙΣΜΟΙ ΚΑΙΝΟΤΟΜΙΑΣ/ΣΣΚ			
FairLegal: Ανάπτυξη Αμερόληπτου Μεγάλου Γλωσσικού Μοντέλου για Νομικά Κείμενα και Προκηρύξεις Δημοσίου-Ιδιωτικού Τομέα	ΕΣΠΑ	2025	Παν. Αιγαίου, Τ.Π.Τ.Ε. / Αναπλ. Επιστημονικός Υπεύθυνος	https://fairlegal.gr

5. Scholarly and Scientific Activities

5.1 Invited Talks, Presentations, Posters

- SenZations Summer School on Internet of Things - SenZations2020, SCHOOL OF SOCIAL SCIENCES - Department of Cultural Technology and Communication, 29 Jun 2020 to 3 Jul 2020, Lesvos (topic: Semantic Web and IoT)
- Invited talk in “IoT meets AI: Technologies and Perspectives”, University of the Aegean, Ai-Lab, Samos May 2016.
- Invited talk in “Sem. Interoperability in IoT”, Ontology Summit 2015 (http://ontology02.cim3.net/wiki/ConferenceCall_2015_03_05)
- Invited talk (in Greek) in “Ontology Engineering” , University of the Aegean, Ai-Lab, Samos, Dec. 2013
- Invited talk in “Semantic Interoperability on the Internet of Things”, University of the Aegean, Ai-Lab, Samos, May 2013
- Presentation in “Ontology Alignment for IoT interoperability”, IoT project review meeting (TEKES, FI), 2012
- Presentation in “AUTOMSV2 and ASE tools for OAEI 2012”, OM Workshop, ISWC 2012, Boston, 2012
- Presentation in “Semantic Interoperability in iCore project”, IERC AC4 Semantic interoperability Workshop – 19&20th of June 2012, IoT-Week, Venice, 2012
- Invited talks in “Ontology Eng. in the Semantic Web era”, Knowledge Engineering and Semantic Web postgraduate program at University of the Aegean, Samos, 2010
- Invited talks in “Ontology Eng. in the Semantic Web era”, Knowledge Engineering Summer School, Samos, July 2008
- Invited talks in “Ontologies and Schema Languages on Semantic Web”, University of the Aegean, Ai-Lab, Samos, 2005
- Invited talks in “Ontology Engineering: Tools and Methodologies for constructing and managing ontologies”, University of the Aegean, Ai-Lab, Samos, Dec. 2004
- Invited talks in “Knowledge Management and Organizational Memories”, University of the Aegean, Ai-Lab, Samos, June 2001

5.2 Reviewing/Editing responsibilities

Editorials

- Guest Editor: a special issue of Big Data and Cognitive Computing (ISSN 2504-2289) on Semantic Web Technologies and Recommender Systems, MDPI (https://www.mdpi.com/journal/BDCC/special_issues/semweb_tech)
- Editorial board: Journal of Artificial Intelligence Advances (ISSN: 2661-3220 Online)
- Executive Editor: Journal of Internet of Things and Cyber-Assurance (ISSN: 2059-7975 Online)
- Editorial board: Konstantinos Kotis and John Soldatos (eds), *UBICOMM 2019: The Thirteenth International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies*, Sept. 22 - 26 2019, Porto, Portugal, ISBN: 978-1-61208-736-8.

Reviewer in journals (incl.):

Journal of Data and Knowledge Eng., The Knowledge Engineering Review (Cambridge), Expert Systems With Applications (ESWA), Multimodal Technologies and Interaction (MDPI), Sensors (MDPI), Social Network Analysis and Mining (SNAM, Springer), ACM Transactions in IoT, Artificial Intelligence Advances Journal, Knowledge Engineering Review Journal, International Journal of Metadata, Semantics and Ontologies (IJMSO), The Computer Journal, AI Review journal, IEEE Intelligent Systems, IEEE TKDE, the IEEE Transactions on Industrial Informatics, KAIS (Knowledge and Information Systems) Journal, Journal of Web Semantics (JWS), J.UCS - Special Issue in "Ontologies and their Applications", Encyclopedia of Data Warehousing and Mining - 2nd Edition.

More in Publons: <https://publons.com/researcher/2870237/konstantinos-kotis/>

Reviewer in conferences (incl.):

International Conference on Artificial Intelligence Applications and Innovations (AIAI), International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management (KEOD), International Conference on Research Challenges in Information Science (RCIS), International Conference on Real-Time Intelligent Systems (RTIS), International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN), International Joint Conference of AI, ANT, UBICOM, IEEE Industrial Systems, International Conference on Knowledge Science, Engineering and Management (KSEM), AAI-15, ICTAI-2014, AI-IoT 2018, The First International Workshop on Extending Seamlessly to the Internet of Things (esIoT-2012), International Conference on Complex, Intelligent, and Software Intensive Systems (CISIS), IADIS conference on WWW/Internet, IEEE International Conference on Tools with Artificial Intelligence (ICTAI), Workshop of Ontologies And Their Applications (Brazil), AI Conference, SGAI International Conference on Innovative Techniques and Applications of Artificial Intelligence (Cambridge, UK), Workshop of Ontology Alignment and Visualization (OnAV08), World Summit on the Knowledge Society, Workshop on Community- based Evolution of Knowledge-intensive Systems (COMBEK), International Symposium on Information Technologies in Environmental Engineering.

5.3 Thesis/Dissertation Supervision/co-Supervision

Τίτλος/Title	Φοιτητής/ Student	Έτος/ Year	Επίπεδο/ Level	Ρόλος/ Role
Unbiased prediction of women's recidivism: A study on female prisons' archives. Link(s): [related paper A]	Σπύρου Σταμάτης	2021	PostDoc	Supervisor /Επίβλεψη
Development of Intelligent Systems for the Early Identification and Treatment	Μπουχουράς Γιώργος	2025	PostDoc	Supervisor /Επίβλεψη

of Developmental Disorders: Combining Biomechanics and Artificial Intelligence				
Reimagining Pedagogy through Artificial Intelligence and Educational Technology for Diverse Learners	Κεντέρης Μιχάλης	2025	PostDoc	Supervisor /Επίβλεψη
AI dialogue and QA softbots (AI chatbots) in the Digital Culture domain. Link(s): [thesis abstract] [Thesis] [Presentation] [System] [related paper A] [related paper B]	Βαριτιμιάδης Σάββας	2019	PhD	Supervisor /Επίβλεψη
Event prediction based on semantic sentiment analytics of big data in social media networks. Link(s): [related paper A]	Θεοχαρόπουλος Χάρης	2020	PhD	Supervisor /Επίβλεψη
Semantic trajectory analytics and Recommendation systems. Link(s): [related paper A] [related paper B]	Αγγελής Σωτήρης	2020	PhD	Supervisor /Επίβλεψη
Revealing Common Mechanisms Between Neurodegenerative Diseases and Artistic Behaviors Using Fuzzy Knowledge Representation. Link(s): [related paper A]	Κωλέτης Α.	2021	PhD	Supervisor /Επίβλεψη
Semantic interoperability and real-time automated reasoning in IoT-enabled edge devices and swarms of drones. Link(s): [related paper A]	Σουλαρίδης Α.	2023	PhD	Supervisor /Επίβλεψη
Analysis of Data from smart wearable devices for effective patient monitoring: an intelligent system for monitoring patients with mobility problems Link(s): [related paper A]	Μπίπλης Π.	2022	PhD	Supervisor /Επίβλεψη
Bias-free AI-Assisted (LLMs) Implementation of the Intelligence Analysis Cycle	Καρακικές Α.	2024	PhD	Supervisor /Επίβλεψη
Utilizing Language Models (LMs) in Decision-Making Support Systems.	Δουμανάς Δ.	2025	PhD	Supervisor /Επίβλεψη
Internet of Things and interoperability through semantic knowledge representation in the form of ontologies for smart city applications.	Πλιάτσιος Αντώνιος Επιβλ.: Γκουμόπουλος Χ.	2019-ολοκληρώθηκε	PhD	Advisor/ Τριμελή Επιτροπή
Knowledge representation/ontologies on the domain of artworks conservation.	Μωραΐτου Ευθυμία Επιβλ.: Καρυδάκης Γ.	2019 - ολοκληρώθηκε	PhD	Advisor/ Τριμελή Επιτροπή
Optimization Techniques and Architectures for Enhanced Performance in Intelligent Systems	Δημαρά Α. Επιβλ.: Αναγνωστόπουλος Χ.	2022-ολοκληρώθηκε	PhD	Advisor/ Τριμελή Επιτροπή
Semantics for Addressing the Cultural Snapshot Phenomenon	Μουζούρης Σ. Επιβλ.: Καβακλή Β.	2022	PhD	Advisor/ Τριμελή Επιτροπή
Mining and analyzing information in public documents using deep machine learning and natural language processing.	Αραμπατζής Γαβριήλ Επιβλ.: Καρυδάκης Γ.	2020	PhD	Advisor/ Τριμελή Επιτροπή

Object recognition in art paintings using deep learning neural networks.	Τροχίδης Επιβλ.: Τσεκούρας Γ.	2021	PhD	Advisor/ Τριμελή Επιτροπή
Development of a methodology for mapping and identifying privacy and security issues in the Internet of Cloud (IoC).	Τσουπλάκη Α. Επιβλ.: Καλλονιάτης Χ.	2022	PhD	Advisor/ Τριμελή Επιτροπή
Development of a methodology for accepting technological transition and best practice solutions (end-to-end) for the new industrial revolution (Industry 4.0), intelligent and immersive technologies.	Στεργίου Γ. Επιβλ.: Καβακλή Β.	2022	PhD	Advisor/ Τριμελή Επιτροπή
Semantic integration of cultural data from heterogeneous sources. Link(s): [thesis abstract] [Thesis] [Presentation] (in Greek) [System] [related paper A]	Αγγελής Σωτήρης	2019	MSc	Supervisor / Επίβλεψη
Generate and publish open and linked cultural data for Android mobile apps. Link(s): [Thesis] [Presentation]	Μουζάκης Παναγιώτης	2019	MSc	Supervisor /Επίβλεψη
Design and development of educational AI chatbot for museums. Link(s): [System] [Thesis] [Presentation]	Μάγειρα Κ.- Πιπτού Δ.	2020	MSc	Supervisor /Επίβλεψη
Creation of searchable, open, interoperable, machine-readable, reliable and reusable digital content and data. The role of cultural heritage aggregators. Link(s): [System (DSpace)] [System (SearchCulture.gr - EKT)] [Thesis]	Κωστελίδου Δ.	2020	MSc	Supervisor /Επίβλεψη
Digitizing, documenting, semantically annotating and publishing cultural content in the Semantic Web. Link(s): [LOD] [Thesis] [Presentation] [related paper]	Μαρίνη - Χονδρογιάννη	2020	MSc	Supervisor /Επίβλεψη
Semantic Interoperability of Smart Cultural Spaces. Link(s): [System] [Thesis] [Presentation] [related paper A] [related paper B]	Ζαχίλα Κωνσταντίνια	2020	MSc	Supervisor /Επίβλεψη
Fair Knowledge Representation in surveillance applications. Link(s): [System] [Thesis] [Presentation] [related paper A] [related paper B]	Παπαρίδης Βαγγέλης	2020	MSc	Supervisor /Επίβλεψη
e-Gov 3.0: E-gov, CP systems and IoT.	Σάμιος Θ.	2021	MSc	Supervisor /Επίβλεψη
Semantic Modeling and Simulation of cyber-security and interoperability issues in swarms of unmanned marine vehicles (UMVs). Link(s): [related paper A]	Σταυρινός Σ.	2021	MSc	Supervisor /Επίβλεψη
Semantic trajectories' analytics and visualization in swarms of unmanned aerial vehicles (UAVs). Link(s): [related paper A]	Σουλαρίδης Α.	2021	MSc	Supervisor /Επίβλεψη
Engineering ontology and KG for PD monitoring and alerting. Link(s): [related paper A] [related paper B]	Ζαφειρόπουλος Ν.	2023	MSc	Supervisor /Επίβλεψη

Handling bias in Twitter/X analytics. Link(s): [related paper A] [related paper B]	Καρακικές Α.	2023	MSc	Supervisor /Επίβλεψη
Smart mobile app: Silence bot.	Ζώτος Θοδωρής, Τσοχαταρίδης Σωκράτης	2020	BSc	Supervisor /Επίβλεψη
Content Management Systems (CMS) for cultural content preservation and dissemination .	Κοντελής Κων/νος, Τρούμπη Ιωάννα	2020	BSc	Supervisor /Επίβλεψη
Smart mobile FB app: Family bot.	Ιωσηφίδης Κυριάκος	2020	BSc	Supervisor /Επίβλεψη
Creating Semantic Web of Data sites with JSON-LD. Link(s): [Thesis] [Presentation]	Μαρκόπουλος Θανάσης	2020	BSc	Supervisor /Επίβλεψη
Beyond traditional Web Search: Semantic Web search, Dataset Search, Culture Search, IoT Search engines.	Σταύρου Άννα	2020	BSc	Supervisor /Επίβλεψη
Social Internet of Things (SIoT) and smart objects	Κωνσταντινίδου Στελίνα	2020	BSc	Supervisor /Επίβλεψη
Developing an ontology-based AI Chatbot: the case of Covid-19 chatbot.	Δημάκη Δ., Χριστέλλη Κ.	2021	BSc	Supervisor /Επίβλεψη
Cultural events information Web app for people with disabilities (sign language recognition). Link(s): [System]	Αυγουστόπουλος Δημήτριος, Καλδέλλης Μάριος, Κωστάρας Αντρέας	2021	BSc	Supervisor /Επίβλεψη

Before 2019 (UoA, Dept. of ICSD):

- “Semantic Information System for the trading of resources and services”, MSc thesis
- “Semantic Matchmaking of WSDL Web Services”, MSc thesis
- “Automatic Multiple-Choice Questions construction using domain ontologies”, MSc thesis
- “Semantic Web Portal Technology: a case study using MScProgram.owl ontology”
- “Semantic Wikis for Web-based Collaborative Ontology engineering”

5.4 Other academic and professional activities

- Teaching activities of 20 hours (IoT, Web Design) at the Dept. of Informatics, Faculty of Economics and Management, Czech University of Life Sciences Prague, Dec. 2023.
- Visiting professor (research and teaching on Semantic Web technologies) in IUT, University of Paris 8, France, 6 Nov. to 6 Dec. 2023.

- Erasmus teaching of 8 hours (Semantic IoT) at the Dept. of Information Eng., Faculty of Economics and Management, Czech University of Life Sciences Prague, Apr. 2023.
- Erasmus teaching of 8 hours (Semantic Web), Department of Mathematics and Computer Sciences, Università degli Studi di Catania, 25/04/2022 to 29/04/2022.
- PC member at Connected-Data.World (CDW), i-Lab partnership representative, 2022.
- Lecturing at SenZations Summer School on Internet of Things - SenZations2020, SCHOOL OF SOCIAL SCIENCES - Department of Cultural Technology and Communication, 29 Jun 2020 to 3 Jul 2020, Lesvos.
- i-Lab representative in Time Machine Organization (TMO) and Time Machine H2020 CSA project (Big Data of the Past).
- Coordinator and Co-chair of UBICOMM 2019 special track on “Semantic Web and IoT”.
- Coordinator and Co-chair of International Conference on Emerging Ubiquitous Systems and Pervasive Networks, “Semantic Web” track, EUSPN 2016 London
- Coordinator and co-chair of the 1st International Workshop in “Intelligent Systems for Environmental (Knowledge) Engineering and EcolInformatics” (i-SEEK’09), CISIS 2009, Fukuoka.
- Co-organizer of OAEI contest 2011 track ‘Oriented Matching’.
- Vocational training instructor - EKEPIS Certified Trainer in Information Technology since 2001, Greece.
- High School (Lyceum) instructor in Information Technology, 1997-1999, Samos, Greece.

6. List of publications

6.1 In Journals

1. Doumanas, D.; Soularidis, A.; Kotis, K. Causal Reasoning and Large Language Models for Military Decision-Making: Rethinking the Command Structures in the Era of Generative AI. *Preprints* **2025**, 2025101871. <https://doi.org/10.20944/preprints202510.1871.v1>
2. Stefanou, E.E.; Bitilis, P.; Bouchouras, G.; Kotis, K. Collecting, Integrating and Processing IoT Sensor Data on Edge Devices for PD Monitoring: A Scoping Review. *Appl. Sci.* **2025**, *15*, 10541. <https://doi.org/10.3390/app151910541>
3. Koletis, A.; Bitilis, P.; Bouchouras, G.; Kotis, K. A Comparative Analysis of Parkinson’s Disease Diagnosis Approaches Using Drawing-Based Datasets: Utilizing Large Language Models, Machine Learning, and Fuzzy Ontologies. *Information* **2025**, *16*, 820. <https://doi.org/10.3390/info16090820>
4. Doumanas, D.; Karakikes, A.; Soularidis, A.; Mainas, E.; Kotis, K. Emerging Threat Vectors: How Malicious Actors Exploit LLMs to Undermine Border Security. *AI* **2025**, *6*, 232. <https://doi.org/10.3390/ai6090232>
5. Konstantinos Kotis, Eleni Angoura, and Eleni-Ioanna Lyngri. 2025. Emerging Technologies in Smart Libraries for Visually Impaired People: Challenges and Design Considerations. *J. Comput. Cult. Herit.* *18*, 3, Article 37 (September **2025**), 37 pages. <https://doi.org/10.1145/3727965>
6. Doumanas, D.; Ntalouka, E.; Vassilakis, C.; Wallace, M.; Kotis, K. Stitching History into Semantics: LLM-Supported Knowledge Graph Engineering for 19th-Century Greek Bookbinding. *Mach. Learn. Knowl. Extr.* **2025**, *7*, 59. <https://doi.org/10.3390/make7030059>
7. Kostadimas, D.; Kasapakis, V.; Kotis, K. A Systematic Review on the Combination of VR, IoT and AI Technologies, and Their Integration in Applications. *Future Internet* **2025**, *17*, 163. <https://doi.org/10.3390/fi17040163>
8. Bouchouras, G.; Sofianidis, G.; Kotis, K. Predicting Freezing of Gait in Parkinson’s Disease: A Machine-Learning-Based Approach in ON and OFF

- Medication States. *J. Clin. Med.* **2025**, *14*, 2120. <https://doi.org/10.3390/jcm14062120>
9. Doumanas, D.; Soularidis, A.; Spiliotopoulos, D.; Vassilakis, C.; Kotis, K. Fine-Tuning Large Language Models for Ontology Engineering: A Comparative Analysis of GPT-4 and Mistral. *Appl. Sci.* **2025**, *15*, 2146. <https://doi.org/10.3390/app15042146>
 10. Bouchouras, G.; Kotis, K. Integrating Artificial Intelligence, Internet of Things, and Sensor-Based Technologies: A Systematic Review of Methodologies in Autism Spectrum Disorder Detection. *Algorithms* **2025**, *18*, 34. <https://doi.org/10.3390/a18010034>
 11. Assimakopoulos, F., Vassilakis, C., Margaritis, D., Kotis, K., & Spiliotopoulos, D. (2025). AI and related technologies in the fields of smart agriculture: A review. *Information*, *16*(2), 100. doi:<https://doi.org/10.3390/info16020100>
 12. Doumanas D, Bouchouras G, Soularidis A, Kotis K, Vouros G. From Human-to LLM-Centered Collaborative Ontology Engineering. *Applied Ontology*. **2025**;19(4):334-367. doi:[10.1177/15705838241305067](https://doi.org/10.1177/15705838241305067)
 13. Bouchouras, G.; Kotis, K. Integrating Artificial Intelligence, Internet of Things, and Sensor-Based Technologies: A Systematic Review of Methodologies in Autism Spectrum Disorder Detection. *Algorithms* **2025**, *18*, 34. <https://doi.org/10.3390/a18010034>
 14. G Bouchouras, G Sofianidis, K Kotis, Temporal Anomaly Detection in Attention-Deficit/Hyperactivity Disorder Using Recurrent Neural Networks, *Cureus* *16* (12), DOI: 10.7759/cureus.76496
 15. Mulita, Admir et al., Using Deep Learning to Predict Head-Neck and Lung Cancer Treatment Response from Serial Medical Imaging, *European Journal of Surgical Oncology*, Volume 50, 109437, <https://doi.org/10.1016/j.ejso.2024.109437>
 16. Mulita, Francesk et al., The use of artificial intelligence in surgical oncology simulation, *European Journal of Surgical Oncology*, Volume 50, 109438, <https://doi.org/10.1016/j.ejso.2024.109438>
 17. Assimakopoulos, F.; Vassilakis, C.; Margaritis, D.; Kotis, K.; Spiliotopoulos, D. Artificial Intelligence Tools for the Agriculture Value Chain: Status and Prospects. *Electronics* **2024**, *13*, 4362. <https://doi.org/10.3390/electronics13224362>
 18. Assimakopoulos, F.; Vassilakis, C.; Margaritis, D.; Kotis, K.; Spiliotopoulos, D. The Implementation of “Smart” Technologies in the Agricultural Sector: A Review. *Information* **2024**, *15*, 466. <https://doi.org/10.3390/info15080466>
 19. Ziku, M.; Kotis, K.; Pavlogeorgatos, G.; Kavakli, E.; Zeeri, C.; Caridakis, G. Evaluating Crowdsourcing Applications with Map-Based Storytelling Capabilities in Cultural Heritage. *Heritage* **2024**, *7*, 3429-3454. <https://doi.org/10.3390/heritage7070162>
 20. Karakikes, A., Alexiadis, P. & Kotis, K. Bias in X (Twitter) and Telegram Based Intelligence Analysis: Exploring Challenges and Potential Mitigating Roles of AI. *SN COMPUT. SCI.* **5**, 574 (2024). <https://doi.org/10.1007/s42979-024-02935-w>
 21. Efthymia Moraitou, Yannis Christodoulou, Konstantinos Kotis, and George Caridakis. 2024. An Ontology-Based Framework for Supporting Decision-Making in Conservation and Restoration Interventions for Cultural Heritage. *J. Comput. Cult. Herit.* *17*, 3, Article 41 (September 2024), 24 pages. <https://doi.org/10.1145/3653977>
 22. Angelis, S., Moraitou, E., Caridakis, G. K. Kotis. CHEKG: a collaborative and hybrid methodology for engineering modular and fair domain-specific knowledge graphs. *Knowl Inf Syst* **66**, 4899–4925 (2024). <https://doi.org/10.1007/s10115-024-02110-w>
 23. Soularidis, A.; Kotis, K.I.; Vouros, G.A. Real-Time Semantic Data Integration and Reasoning in Life- and Time-Critical Decision Support Systems. *Electronics* **2024**, *13*, 526. <https://doi.org/10.3390/electronics13030526>

(Impact Factor: 2.9, CiteScore: 4.7)

24. Zafeiropoulos, N.; Bitilis, P.; Tsekouras, G.E.; Kotis, K. Evaluating Ontology-Based PD Monitoring and Alerting in Personal Health Knowledge Graphs and Graph Neural Networks. *Information* **2024**, *15*, 100. <https://doi.org/10.3390/info15020100>

(Impact Factor: 3.1, CiteScore: 5.8)

25. Zafeiropoulos, N.; Bitilis, P.; Tsekouras, G.E.; Kotis, K. Graph Neural Networks for Parkinson's Disease Monitoring and Alerting. *Sensors* **2023**, *23*, 8936. <https://doi.org/10.3390/s23218936>

(Impact Factor: 3.9, CiteScore: 6.8)

26. Remountakis, M.; Kotis, K.; Kourtzis, B.; Tsekouras, G.E. Using ChatGPT and Persuasive Technology for Personalized Recommendation Messages in Hotel Upselling. *Information* **2023**, *14*, 504. <https://doi.org/10.3390/info14090504>

(Impact Factor: 3.1, CiteScore: 5.8)

27. Bouras, V.; Spiliotopoulos, D.; Margaritis, D.; Vassilakis, C.; Kotis, K.; Antoniou, A.; Lepouras, G.; Wallace, M.; Pouloupoulos, V. Chatbots for Cultural Venues: A Topic-Based Approach. *Algorithms* **2023**, *16*, 339. <https://doi.org/10.3390/a16070339>

(Impact Factor: 2.3, CiteScore: 3.7)

28. Koletis, A.; Bitilis, P.; Zafeiropoulos, N.; Kotis, K. Can Semantics Uncover Hidden Relations between Neurodegenerative Diseases and Artistic Behaviors? *Appl. Sci.* **2023**, *13*, 4287. <https://doi.org/10.3390/app13074287>.

(Impact Factor: 2.8, CiteScore: 3.7)

29. Pliatsios, A.; Kotis, K.; Goumopoulos C. A Systematic Review on Semantic Interoperability in the IoE-enabled Smart Cities. *Internet of Things*, *22*, **2023**. <https://doi.org/10.1016/j.iot.2023.100754>.

(Impact Factor: 5.7, CiteScore: 10.2)

30. Kotis, K.; Angelis, S.; Moraitou, E.; Kopsachilis, V.; Papadopoulou, E.-E.; Soulakellis, N.; Vaitis, M. A KG-Based Integrated UAV Approach for Engineering Semantic Trajectories in the Cultural Heritage Documentation Domain. *Remote Sens.* **2023**, *15*, 821. <https://doi.org/10.3390/rs15030821>.

(Impact Factor: 5.349, CiteScore: 7.4)

31. Kotis, K.; Soularidis, A. ReconTraj4Drones: A Framework for the Reconstruction and Semantic Modeling of UAVs' Trajectories on MovingPandas. *Appl. Sci.* **2023**, *13*, 670. <https://doi.org/10.3390/app13010670>.

(Impact Factor: 2.838, CiteScore: 3.7)

32. Kotis, K.; Dimara, A.; Angelis, S.; Michailidis, P.; Michailidis, I.; Anagnostopoulos, C.-N.; Krinidis, S.; Kosmatopoulos, E. Towards Optimal

Planning for Green, Smart, and Semantically Enriched Cultural Tours. *Smart Cities* 2023, 6, 123-136. <https://doi.org/10.3390/smartcities6010007>.

(Impact Factor: 6.4, CiteScore: 5.5)

33. Kotis, K.; Stavrinou, S.; Kalloniatis, C. Review on Semantic Modeling and Simulation of Cybersecurity and Interoperability on the Internet of Underwater Things. *Future Internet* 2023, 15, 11. <https://doi.org/10.3390/fi15010011>.

(Impact Factor: 3.4, CiteScore: 5.4)

34. Dimara, A.; Vasilopoulos, V.-G.; Papaioannou, A.; Angelis, S.; Kotis, K.; Anagnostopoulos, C.-N.; Krinidis, S.; Ioannidis, D.; Tzovaras, D. Self-Healing of Semantically Interoperable Smart and Prescriptive Edge Devices in IoT. *Appl. Sci.* **2022**, 12, 11650. <https://doi.org/10.3390/app122211650>

Impact factor: 2.838, CiteScore 3.7
(Special Issue: [IoT in Smart Cities and Homes](https://doi.org/10.3390/app122211650))

35. Santipantakis, G., Kotis, K., Glenis, A., Vouros, G. A., Doulkeridis, C., Vlachou, A., RDF-Gen: Generating RDF Triples from Big Data Sources, Knowledge and Information Systems (KAIS) journal, vol. 64, issue 11, 2985–3015, **2022**, Springer. <https://doi.org/10.1007/s10115-022-01729-x>.

Impact factor: 3.161 (5-year), CiteScore Scopus: NA

36. Koletis A, Markopoulos A, Kotis K. Discovering Semantic Relations between Neurodegenerative Diseases and Artistic Behaviors. *Challenges*. 2022; 13(2):36. <https://doi.org/10.3390/challe13020036>

Impact factor: NA, CiteScore Scopus: NA

37. Mulita, F., Verras, G., Anagnostopoulos, C.-N., Kotis, K., A Smarter Health through the Internet of Surgical Things, Sensors, 22(12), 4577, **2022**, MDPI. <https://doi.org/10.3390/s22124577>

Impact factor: 3.847, CiteScore Scopus: NA. Special Issue [IoT Multi Sensors](https://doi.org/10.3390/s22124577))

38. Mageira, K., D. Pittou, A. Papasalouros, K. Kotis, P. Zangogianni, and A. Daradoumis, "Educational AI Chatbots for Content and Language Integrated Learning", Applied Sciences, vol. 12, issue 7, **2022**. <https://doi.org/10.3390/app12073239>

Impact factor: 2.679, CiteScore Scopus: 3
(Collection: [The Application and Development of E-learning](https://doi.org/10.3390/app12073239))

39. Kotis, K. D-h-index: a linked data quality metric. Academia Letters, Article 2903, **2021**. <https://doi.org/10.20935/AL2903>.

Impact factor: NA, CiteScore Scopus: NA

Kotis, K. Artificial General Intelligence and Creative Economy. Academia Letters, **2021**. <https://doi.org/10.20935/AL260>

40. Angelis S., Kotis K., Mouzakis P., [Interlinking and enrichment of disparate organisational data with LOD at applications run-time](https://doi.org/10.1504/IJMSO.2021.123043). International Journal of Metadata, Semantics and Ontologies, 15(3), pp.204-219 **2021**. <https://doi.org/10.1504/IJMSO.2021.123043>

- Impact factor: N/A, CiteScore Scopus: 1.2
41. Angelis, S.; Kotis, K.; Spiliotopoulos, D. Semantic Trajectory Analytics and Recommender Systems in Cultural Spaces. *Big Data Cogn. Comput.* **2021**, *5*, 80. <https://doi.org/10.3390/bdcc5040080>
- Impact factor: 3.7, CiteScore Scopus: 4.9
(Special Issue: [Semantic Web Technology and Recommender Systems](#))
42. Zachila, K.; Kotis, K.; Paparidis, E.; Ladikou, S.; Spiliotopoulos, D. Facilitating Semantic Interoperability of Trustworthy IoT Entities in Cultural Spaces: The Smart Museum Ontology. *IoT* **2021**, *2*(4), pp.741-760. <https://doi.org/10.3390/iot2040037>
- New Journal (first Issue)
43. Varitimiadis, S.; Kotis, K.; Pittou, D.; Konstantakis, G. Graph-Based Conversational AI: Towards a Distributed and Collaborative Multi-Chatbot Approach for Museums. *Appl. Sci.* **2021**, *11*(19), 9160. <https://doi.org/10.3390/app11199160>
- Impact factor: 2.679, CiteScore Scopus: 3
(Special Issue [Advanced Technologies in Digitizing Cultural Heritage](#))
44. Kotis K., Angelis S., Chondrogianni M., Marini E., "Children's art museum collections as Linked Open Data", *International Journal of Metadata, Semantics and Ontologies*, *15*(1), pp. 60-70, 08/2021 <http://doi.org/10.1504/IJMSO.2021.10040249>
- Impact factor: N/A, CiteScore Scopus: 1
45. Sikelis K, Tsekouras GE, Kotis K. Ontology-Based Feature Selection: A Survey. *Future Internet.* **2021**; *13*(6):158. <https://doi.org/10.3390/fi13060158>
- Impact factor: 3.4, CiteScore Scopus: 4.1
(Special Issue [Software Engineering and Data Science](#))
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