Mihai Andries **Curriculum vitæ (July 22, 2024)**

CONTACT INFORMATION

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LinkedIn profile
Google Scholar profile

RESEARCH INTERESTS

Ambient systems, Cognitive robotics, Cognitive architectures, Autonomous intelligent systems, Automated design, Simulation.

EDUCATION

Ph.D. in Computer Science, Artificial Intelligence **Oct 2012 – Dec 2015**
Thesis: *Object and human tracking, and robot control through a load sensing floor*
Université de Lorraine, Nancy, France

Master in Computer Science **Sept 2010 – Sept 2012**
Software and Information Engineering
Thesis: *Distributed algorithms for multi-robot exploration of structured environments.*
Université de Strasbourg, Strasbourg, France

Licence (B.Sc.) in Computer Science **Sept 2007 – June 2010**
Université de Strasbourg, Strasbourg, France

PROFESSIONAL EXPERIENCE

Associate professor in Computer Science **Dec 2020 – present**
Ambient Systems and Cognitive Robotics
Department of Computer Science, IMT Atlantique, Brest, France

Research engineer, 3D & Machine learning **Aug 2020 – Nov 2020**
Dassault Systèmes (3DS), Vélizy-Villacoublay, France

Postdoctoral researcher **May 2019 – April 2020**
Inria — French National Institute for Research in Computer Science and Automation
LARSEN team, Nancy, France
Advisor: Serena Ivaldi, Chargée de recherche

- Automatic generation of a dataset of 3D object models to evaluate and train robotic grasping algorithms using generative Deep Learning models (HEAP project).
- Supervision of a PhD student working on integration of human preference into robotic grasping.
- Tools: Python, Jupyter Notebook, TensorFlow, DexNet, BinVox, TriMesh, V-HACD, MAP-Elites, Matplotlib, SolidWorks, CURA (3D printing), G-code.

Postdoctoral researcher **April 2017 – April 2019**
Institute for Systems and Robotics (ISR-Lisboa)
Instituto Superior Técnico (IST), Universidade de Lisboa, Lisbon, Portugal
Advisor: José Santos-Victor, Full Professor (IST)

- Automatic generation of 3D object models satisfying functional requirements using generative Deep Learning models.
- Testing object affordances in simulation.
- Autonomous learning of object affordances for cognitive robotics.
- Drafting national (FCT) and European (H2020) research project proposals.
- Supervising a Master student working on affordance testing.
- Tools: Python, TensorFlow, Gazebo, BinVox, TriMesh, ROS, Baxter robot, iCub robot, LaTeX.

Founder **March 2017 – present**
Andries Labs S.R.L., Chișinău, Moldova

- Development of **jurnyz.com**, a traveller-oriented website for logging journeys.
- Tools: HTML, CSS, Javascript, PHP, SQL, D3JS, GeoJSON, AJAX, REST.

Postdoctoral researcher **Jan–Dec 2016**
CNRS, Institute for Intelligent Systems and Robotics (ISIR)
Université Pierre-et-Marie-Curie (Paris VI), Paris, France
Advisor: Raja Chatila, Directeur de recherche (CNRS)

Project: *RoboErgoSum*, French National Research Agency (ANR)

- Research on cognitive architectures for perception, learning, reasoning and action planning.
- Research on perception and knowledge grounding in robotics.
- Supervision of a PhD student working on Planning in Artificial Intelligence.
- Tools: C++, ROS, R, Baxter robot.

Project: *Spencer*, European Research Project, Cognitive Systems and Robotics

- Group detection in densely populated environments for social robotics.
- Tools: C++, ROS, MATLAB.

Doctoral Researcher **Oct 2012 – Dec 2015**
Inria — French National Institute for Research in Computer Science and Automation
Autonomous intelligent machines (MAIA) and LARSEN teams, Nancy, France
Thesis: *Object and human tracking, and robot control through a load sensing floor*
Advisors: François Charpillet, Directeur de recherche (Inria)
Olivier Simonin, Professor of Computer Science (INSA Lyon, France)

- Ambient intelligence applied to healthcare (elderly care), involving a distributed load sensor located under a floor.
- Detection, recognition and tracking of humans and objects in the environment using a load-sensing floor.
- Robotic navigation in environments with ground pressure sensors.
- Tools: Java, ROS, gnuplot.

Research Intern **Feb 2012 – July 2012**
Inria, Autonomous intelligent machines team (MAIA), Nancy, France
Supervisor: François Charpillet, Directeur de recherche (Inria)

Project: *Cartography of a territory by a robot (CAROTTE)*, national joint project of the French National Research Agency (ANR) and the French General Directorate for Armament (DGA)

- Research and development of multi-agent exploration algorithms for robotic search-and-rescue missions.
- Tools: Java, gnuplot.

Software R&D Intern **Sept 2010 – Jan 2012**
PSA Peugeot Citroën
Telematics Architecture and Software Specification team, Sochaux, France

- Development of a methodology for designing UML/SysML models of software architectures for vehicles.
- Implemented networking functionalities for a Controller Area Network (CAN) driver, for connecting real and simulated car components.
- Tools: C, UML/SysML, Sparx Enterprise Architect, Atego Artisan Studio, IBM Rational Rhapsody, Qt, Agile development, Scrum.

Teaching experience

Associate Professor at IMT Atlantique **Dec 2020 – present**
Courses taught: Robotics, Object Oriented Programming, Relational Databases, Web development, Introduction to Unix Systems.

Qualification Maître de Conférences (France) **Feb 2017 – Dec 2021**
Section 27 - Computer Science

Teaching assistant at TELECOM Nancy **Oct 2012 – Sept 2014**
Courses taught: Techniques and Tools for Programming, Compilation, Graphs and Operational Research, Artificial Intelligence.

Administrative experience

Organiser of the Journal Club **March–Dec 2016**
weekly sessions for presenting and discussing scientific publications in the Institute for Intelligent Systems and Robotics (ISIR) laboratory (Paris, France)

Elected representative **March–Dec 2015**
of doctoral researchers, post-docs, contract engineers and contract researchers in the LORIA laboratory council (Nancy, France)

Appointed representative **Jan–Dec 2015**
of doctoral researchers, post-docs, contract engineers and contract researchers in the council of the Inria Nancy research center (Nancy, France)

Volunteering experience

Communication officer **April 2017 – Sept 2021**
MentorMe mentorship programme for Moldovan high-school graduates and undegraduate university students seeking to pursue their university education abroad.

Programme manager **March 2016 – March 2017**
MentorMe mentorship programme

- Drafting the specification for the MentorMe online platform
- Fundraising: jointly preparing and submitting grant proposals to national funding organisms (e.g. Biroul Relații cu Diaspora)
- Community management: processing join/leave requests from members
- Activity reporting to the founder of the mentorship programme
- Team management (3 volunteers: operations, communication, fundraising)

Software developer **Aug 2010**
On-line dictionary of library science terminology
Designed and developed the software for an on-line dictionary of library science terminology for the National Library of the Republic of Moldova

Software skills

Programming languages: Python, Java, C, C++, OCaml, Pascal, assembly
Scientific software: LaTeX, gnuplot, Maple, MPI, CUDA
Machine Learning software: TensorFlow, Octave, Jupyter Notebook
Robotics software: ROS, YARP
Software Architecture: UML, SysML, Sparx Enterprise Architect, Atego Artisan Studio, IBM Rational Rhapsody, Qt
Software Verification: Coq theorem prover, Frama-C
Compilation: Lex, Yacc, ANTLR
Databases: Relational databases (SQL, MariaDB), Graph Databases (Cypher, Neo4j)
Web Development: HTML, CSS, JavaScript, PHP
Computer-Aided Design: SolidWorks, CURA, G-code

Language skills

English: C2 (IELTS overall band score: 8/9, September 2011)
French: C1 (DALF C1, 2006)
Romanian: C2 (native speaker)
Russian: C2 (native speaker)
Italian: B2 (intermediate)
German: A2 (basic user)
Portuguese: A2 (basic user)

Extra-curricular education

Online courses attended

- *Control of Mobile Robots*, online course provided by Georgia Institute of Technology on Coursera (Feb 2019)
- *Machine Learning*, online course provided by Stanford University on Coursera (Jan–Feb 2017)
- *Philosophy and the Sciences*, online course provided by the University of Edinburgh on Coursera (Oct–Dec 2014)

- *Introduction to Philosophy*, online course provided by the University of Edinburgh on Coursera (Jan–Mar 2013)
- *Introduction to Artificial Intelligence (advanced track)*, online course given by Prof. Sebastian Thrun and Prof. Peter Norvig (Oct–Dec 2011)

Winter and Summer schools attended

- International Winter School on Humanoid Robot Programming
  Organized by the Istituto Italiano di Tecnologia, iCub Facility
  6–15 February 2018, Santa Margherita Ligure, Genoa, Italy

- Summer School on Law and Logic
  Organized by the European University Institute (Florence, Italy) and the Harvard Law School (Cambridge, Massachusetts, U.S.A.)
  13–18 July 2015, Florence, Italy

- Global Young Scientists Summit
  Organized by the Singapore Ministry of Education, National Research Foundation Singapore, the Singapore University of Technology and Design and the Singapore Science Centre
  18–23 January 2015, Singapore

- Advanced Course on Artificial Intelligence (*ACAI 2011*)
  Summer school on Automated Planning and Scheduling
  Organized by the University of Freiburg, Germany
  7–10 June 2011, Freiburg im Breisgau, Germany

Management and Supervision

Postdocs

- Ahmad Tay (2022.10.01–2024.04.19)
  Topic: Speech-based dementia detection
  Co-supervised with Christophe Lohr

- Ikram Kourbane (2022.09–present)
  Topic: Functional capacity evaluation using computer vision
  Co-supervised with Panagiotis Papadakis

PhD students

- Amani Arioui (starting in 2024.10)
  Topic: Summarization of activities of daily living using sound-based activity recognition
  Co-supervised with Christophe Lohr, Plinio Moreno, Alexandre Bernardino (co-tutelle between IMT Atlantique and Instituto Superior Técnico / University of Lisbon)

- Wafae Lasri (starting in 2024.10)
  Topic: Veggie Breizh Bot — Assistive Robot for Cooking
  Co-supervised with Christophe Lohr, Plinio Moreno, José Santos-Victor (co-tutelle between IMT Atlantique and Instituto Superior Técnico / University of Lisbon)

- Gaëlic Béchu (2023.10.01–present)
  Topic: Robotic Action Planning with Affordances and Large Language Models
  Co-supervised with Panagiotis Papadakis and Ehsan Abbasnejad (co-tutelle between IMT Atlantique and University of Adelaide)

- Papa Séga Wade (2021.11.08–present)
  Topic: Dialogical variants and language levels in a sub-Saharan environment. Eval-

uation of sociolectal and idiolectal linguistic parameters for a dynamic adaptation of a bot to the speaker's profile. Application to vocal services.
Co-supervised with Ioannis Kanellos, Thierry Moudenc at IMT Atlantique

- Yoann Fleytoux (2019.05.01–2020.04.30, informal supervision)
Thesis: Learning human preferences for robotic grasping
Supervised by Serena Ivaldi at Université de Lorraine

- Raphaël Gottstein (2016.04.01–10.31, informal supervision)
Thesis: Deliberative system for an autonomous robot: hierarchical probabilistic planning based on motivations and taking into consideration resources
Supervised by Raja Chatila at Université Paris VI

Master students

- Rui Maia: *Testing object affordances in the Gazebo simulator* (2019.03–07)
Co-supervised with Atabak Dehban at Instituto Superior Técnico

Master group projects

- *Assistant vocal pour habitat intelligent*
Students: Alexandre Derrien, Liu Kehan, Yanice Moreau, Raphaël Seegmuller, Héliote Zaouly.
Co-supervised with Christophe Lohr at IMT Atlantique (2023.10–2024.04)

- *Reconnaissance de l'activité de vie quotidienne humaine à domicile à l'aide du son*
Students: Mateo Bentura Larregui, Ezequiel Tomas Centofanti, Kevin Michalewicz, Oumaima Touil.
Co-supervised with Christophe Lohr at IMT Atlantique (2021.10–2022.03)

- *Système d'information géographique d'aide au diagnostic de faisabilité d'un projet immobilier et de construction*
Students: Benjamin Demolin, Thierry Jiao, Kristof Szentes, Yin Tan.
Co-supervised with Cécile Bothorel at IMT Atlantique (2021.10–2022.03)

Bachelor group projects

- *Application web d'orientation académique pour IMT Atlantique*
Students: Isaure D'Hébrail, Mehdi Douyeb, Lilian Letard, Yoann Montebrun.
Supervised at IMT Atlantique (2023.01–05)

- *Serious Language Game*
Students: Ellyas Dago, Léa Miqueu, Antoine Sarignac.
Co-supervised with Christophe Lohr at IMT Atlantique (2023.01–05)

- *Application web pour faire un inventaire de déménagement*
Students: Aline Arens, Maëlys Chevrier, Maxime Merle, Yuhua Xin.
Supervised at IMT Atlantique (2021.01–06)

- *Flex Office Manager, gestion des bureaux dans le cadre d'une organisation de bureau flexible et du télétravail*
Students: Dimitri Bestard, Matys Eliayan, Maud Lafoy.
Co-supervised with Charlotte Langlais and Annabelle Boutet-Diéye at IMT Atlantique (2021.01–06)

Bachelor interns

- Vishrut Malik: *Robotic Grasping: implementation of state-of-the-art algorithms in a simulator.* Supervised at IMT Atlantique (2022.01–03)

Table 1: Grants awarded

0	**Project**	**Institution**	**Funding source**	**Grant type**	**Period**	**My role**	**Project budget €**	**Awarded budget €**
1	DiscoBot	ENIB	Région Bretagne	*Stratégie d'Attractivité Durable (SAD)*	2025.01–2026.12	Co-PI	137 824	74988
2	DiscoBot	ENIB	Conseil départemental du Finistère	Aide aux programmes de recherche (APR)	2025.01–2026.12	Co-PI	137 824	43916
3	FCEval	IMT Atlantique	Institut Carnot Télécom & Société Numérique	Prématuration	2024.03–2024.12	PI	55 195	50000
4	BADGE	IMT Atlantique	THALES	COllaboration for Research regarding Maritime technologies, Observation, security, suRveillANce with Thales (CORMORANT)	2024.02–2024.06	PI	10 000	10000
5	RAPALLO	IMT Atlantique	Sciences pour l'ingénieur et le numérique (SPIN) Doctoral school	PhD thesis co-funding	2023.10–2026.09	Co-PI	50 400	50400
6	SUMMA-Sound	IMT Atlantique	Sciences pour l'ingénieur et le numérique (SPIN) Doctoral school	PhD thesis co-funding	2024.10–2028.04	Co-PI	50 400	50400
7	Veggie Breizh Bot	IMT Atlantique	Brest métropole	PhD thesis co-funding	2024.09–2028.03	Co-PI	50 400	50400
8	Veggie Breizh Bot	IMT Atlantique	Brest métropole	Equipment acquisition	2024.09–2028.03	Co-PI	45 000	15000
9	Mementop #1	IMT Atlantique	Agence Nationale de la Recherche	Postdoc co-funding (Plan France Relance)	2022.10–2024.09	Co-PI	110 595	110595
10	Mementop #2	IMT Atlantique	Agence Nationale de la Recherche	Postdoc co-funding (Plan France Relance)	cancelled, failed recruitment	Co-PI	110 595	110595
11	ECFvisuL	IMT Atlantique	Région Bretagne	*Stratégie d'Attractivité Durable (SAD)*	2022.09–2024.02	PI	87 000	57000
12	ECFvisuL	IMT Atlantique	Conseil départemental du Finistère	Aide aux programmes de recherche émergents (APRE)	2022.09–2024.02	PI	87 000	30000
						Total secured grant budget: €		653294

Publications

PhD thesis

[1] *Object and human tracking, and robot control through a load sensing floor*
Mihai Andries, Ph.D. thesis, Université de Lorraine (2015)

Work in progress

[2] Object affordance evaluation library
Mihai Andries

[3] A dataset for human functional capacity evaluation
Ikram Kourbane, Panagiotis Papadakis, Mihai Andries

Pre-prints

[4] Dementia detection based on speech acoustics using machine learning
Ahmad Tay, Mihai Andries, Christophe Lohr
2024

[5] SSL-Rehab: Assessment of Physical Rehabilitation Exercises Through Self-Supervised Learning of 3D Skeleton Representations
Ikram Kourbane, Panagiotis Papadakis, Mihai Andries
2024

[6] Optimized Assessment of Physical Rehabilitation Exercises using Spatiotemporal, Sequential Graph-Convolutional Networks
Ikram Kourbane, Panagiotis Papadakis, Mihai Andries
2024

[7] Acoustic-based fluency classification using LSTM-Attention with computationally-cheap data augmentation for an adaptive voicebot
Papa Séga Wade, Mihai Andries, Ioannis Kanellos, Thierry Moudenc
2023

[8] AGOD-Grasp: An automatically generated object dataset for benchmarking and training robotic grasping algorithms
Mihai Andries, Yoann Fleytoux, Jean-Baptiste Mouret, Serena Ivaldi
2023

Book chapters

[9] Book chapter "On affordances and their entailment in autonomous systems"
Mihai Andries, Lorenzo Jamone, Justus H. Piater, Erol Sahin (edited by Mihai Andries and Madhur Mangalam)
In book "The Modern Legacy of Gibson's Affordances for the Sciences of Organisms" (edited by Madhur Mangalam), Routledge, 2024

Journal publications (peer-reviewed)

[10] Automatic generation of object shapes with desired affordances using voxelgrid representation
Mihai Andries, Atabak Dehban, José Santos-Victor
Frontiers in Neurorobotics, 2020

[11] Toward Self-Aware Robots
Raja Chatila, Erwan Renaudo, Mihai Andries, Ricardo Omar Chavez-Garcia, Pierre Luce-Vayrac, Raphaël Gottstein, Rachid Alami, Aurélie Clodic, Sandra Devin, Benoît Girard, Mehdi Khamassi
Frontiers in Robotics and AI, 2018

[12] Affordance equivalences in robotics: a formalism
Mihai Andries, Ricardo Omar Chavez-Garcia, Raja Chatila, Alessandro Giusti, Luca M. Gambardella
Frontiers in Neurorobotics, 2018

[13] Localisation of humans, objects and robots interacting on load-sensing floors
Mihai Andries, François Charpillet, Olivier Simonin
IEEE Sensors Journal, 2016

Conference publications (peer-reviewed)

[14] Discovering and Manipulating Affordances
Ricardo Omar Chavez-Garcia, Mihai Andries, Pierre Luce-Vayrac, Raja Chatila
International Symposium on Experimental Robotics (ISER 2016)

[15] Modeling the dynamics of individual behaviors for group detection in dynamic crowds using low-level features
Omar Adair Islas Ramírez, Giovanna Varni, Mihai Andries, Mohamed Chetouani, Raja Chatila
IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN 2016)
* Best paper nominee, Technical Category

[16] Probabilistic sensor data processing for robot localisation on load-sensing floors
Maxime Rio, Francis Colas, Mihai Andries, François Charpillet
Proceedings of IEEE/RSJ International Conference on Intelligent Robots and Systems (ICRA 2016)

[17] Multi-robot taboo-list exploration of unknown structured environments
Mihai Andries, François Charpillet
Proceedings of IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2015)

[18] High resolution pressure sensing using sub-pixel shifts on low resolution load-sensing tiles
Mihai Andries, François Charpillet, Olivier Simonin
Proceedings of IEEE International Conference on Robotics and Automation (ICRA 2015)

[19] Multi-robot exploration of unknown environments with identification of exploration completion and post-exploration rendez-vous using ant algorithms
Mihai Andries, François Charpillet
Proceedings of IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2013)

Workshop publications (peer-reviewed)

[20] Holistic trimodal evaluation of fluency: audio, transcription, and fluency markers
Papa Séga Wade, Mihai Andries, Ioannis Kanellos (IMT Atlantique, Brest, France), Thierry Moudenc (Orange Labs, Lannion, France)
Prosodic features of language learners' fluency, satellite workshop of "Speech Prosody", Leiden (The Netherlands), 1 July 2024

[21] Generating object shapes with desired affordances
Mihai Andries, Atabak Dehban, José Santos-Victor
2nd International Workshop on Computational Models of Affordance in Robotics (at ICRA 2019), Montréal, Canada, 24 May 2019

[22] From Perception and Manipulation to Affordance Formalization
Ricardo Omar Chavez-Garcia, Mihai Andries, Pierre Luce-Vayrac, Raja Chatila
Workshop on Machine Learning Methods for High-Level Cognitive Capabilities in Robotics (ML-HLCR at IROS 2016)

[23] High resolution pressure sensing using sub-pixel shifts on low resolution load-sensing tiles
Mihai Andries, François Charpillet, Olivier Simonin
Workshop "Get in touch!" Tactile & force sensing for autonomous, compliant, intelligent robots (at ICRA 2015)

Scientific presentations

- Congrès de la Société Francophone de Simulation en Santé (SoFraSimS)
  Brest, France, 21 June 2024
  Topic: *Évaluation automatique de la capacité fonctionnelle humaine à l'aide de la vision par ordinateur*

- IMT Atlantique Séminaire Recherche
  Nantes, France, 9–10 November 2021
  Topic: *Diagnostic continuel de l'état de santé physique et mentale à domicile*

- Dassault Systèmes
  Vélizy-Villacoublay, France, 25 March 2020
  Topic: *Automatic generation of object shapes with desired affordances using voxelgrid representation*

- HEAP project meeting, University of Lincoln
  Lincoln, England, United Kingdom, 21 November 2019
  Topic: *Generated dataset of object models for evaluating robotic grasping abilities*

- University of Plymouth
  Plymouth, England, United Kingdom, 26 February 2019
  Topic: *Automatic generation of object shapes with desired functionalities*

- Ciência 2018 — Science and Technology Summit in Portugal
  Lisbon Congress Center, Lisbon, Portugal, 2-4 July 2018
  Poster: *Automatic generation of object shapes with desired functionalities*

- Associate Laboratory of Robotics and Engineering Systems (LARSyS) seminar
  Pavilhão do conhecimento, Lisbon, Portugal, 14-15 June 2018
  Topic: *Automatic generation of object shapes with desired functionalities*

- Instituto de Sistemas e Robótica, Instituto Superior Técnico
  Lisbon, Portugal, 19 December 2016
  Topic: *Affordance learning for knowledge grounding*

- Personally Assisted Living workshop (2014)
  Inria Bordeaux Sud-Ouest, Bordeaux, France, 9–10 July 2014
  Topic: *Detection, tracking and recognition of objects using a load-sensing floor*

- Personally Assisted Living workshop (2013)
  Inria Rennes - Bretagne Atlantique, Rennes, France, 10–12 July 2013
  Topic: *Contribution à l'évaluation de la fragilité chez la personne âgée par un système de dalles intelligentes et un réseau de cameras Kinect* (presented together with Abdallah Dib)

- University of Freiburg, Freiburg im Breisgau, Germany, 4 May 2012
  Autonomous Intelligent Systems laboratory
  Topic: *Coverage of an unknown structured environment by a set of robots: from ants to frontier-exploration methods*

Communication for the general public

- MentorMe Lab panel discussion on Machine Learning (in Romanian)
  Viewed by 2830 people on Facebook as of 17 April 2020
  Published live on 04 April 2020

- MentorMe interview about my education, career path, and research in cognitive robotics (in Romanian)
  Viewed by 2500 people on Facebook as of 17 April 2020
  Published on 24 January 2019

- Renaissance Nancy

Scientific vulgarisation event organised by the municipal administration
Represented the MAIA research team at its exhibition stand (3 days)
Nancy, France, May 2013

Professional service

Workshop organisation

- Object Recognition and Manipulation (ORMR) CHIST-ERA Joint Workshop
  International Conference on Computer Vision Systems (ICVS 2021)
  Co-organised with Markus Vincze, Andrea Cavallaro, Berk Calli, Krystian Mikolajczyk (24 September 2021)

- Perception and Modelling for Manipulation of Objects (PaMMO) workshop
  International Conference on Pattern Recognition (ICPR) 2020
  Co-organised with Markus Vincze, Andrea Cavallaro, Berk Calli, Krystian Mikolajczyk (10 January 2021)

Conference chairing

- Co-Chair (with Daniele Palossi) of the *Applications in Robotics* track for the 33rd International Conference on Artificial Neural Networks (ICANN 2024)
  Lugano, Switzerland (17-20 September 2024)

Editing for scientific journals

- MDPI Applied Sciences: Special Issue on "Design, Optimization and Performance Analysis of Cognitive Robotics"
  Senior-editors: Plinio Moreno, Alexandre Bernardino (2021.09–2022.03)

Reviewing for research funding institutions

- Agence Nationale de la Recherche (France)
  Reviewed for ANR in 2017, 2023

Reviewing for scientific journals

- Adaptive Behavior (2018, 2019)
- Autonomous Robotics (2017)
- Frontiers in Robotics and AI (2020)
- IEEE Robotics and Automation Letters (2020)
- IEEE Transactions on Robotics (2015, 2017)
- MDPI Energy (2022)
- MDPI IoT (2022)
- MDPI Mathematics (2021)
- MDPI Robotics (2020)
- MDPI Systems (2020)
- Robotics and Autonomous Systems (2014)
- Sensors & Actuators (2018)
- Springer AI Perspectives: Human-centered AI (2021)

Reviewing for scientific conferences

- International Conference on Artificial Neural Networks (ICANN)
  Reviewed for ICANN 2024
- IEEE International Conference on Robotics and Automation (ICRA)
  Reviewed for ICRA 2017, 2018, 2021, 2023
- IEEE/RSJ International Conference on Intelligent Robots (IROS)
  Reviewed for IROS 2015, 2017, 2020, 2021
- International Symposium on Experimental Robotics (ISER)
  Reviewed for ISER 2020

- International Symposium on Robot and Human Interactive Communication (RO-MAN)
  Reviewed for RO-MAN 2021

Reviewing for scientific workshops

- Robotics for People: Perspectives on Interaction, Learning, and Safety (R4P2021)
  Workshop organised at Robotics: Science and Systems (RSS) 2021

Awards and Distinctions

- Face the robot challenge (placed 4-28 out of 58 submissions)
  Prize: 200 euro, for the entry *Browey* (in collaboration with Hugo Simão)
  Organised by the Honda Research Institute Europe (2017.10.22)

- Selected to participate in the Research Opportunities Week (ROW) at the Technical University of Munich (TUM) (20-24 March 2017)

- Best Paper Nominee, Technical Category (top 5%), RO-MAN 2016
  "Modeling the dynamics of individual behaviors for group detection in dynamic crowds using low-level features."

- Award for Academic Excellence for Moldavian students studying abroad (Doctorate level), Government of the Republic of Moldova (*Gala studenților originari din Republica Moldova, 2015*)

- Selected as an Inria representative for the Global Young Scientists Summit 2015 (18-23 January 2015, Singapore)

Memberships

- Member of the IEEE Technical Committee on Cognitive Robotics — IEEE Robotics and Automation Society (since May 2016)
- French Association for Artificial Intelligence (AFIA, 2011–2015)

Interests

- Parenting
- Science-fiction
- Travelling
- Sailing