

PERSONAL INFORMATION

AWADA Imad Alex



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Sex Male | Date of birth 20/07/1987 | Nationality Romanian, Lebanese

WORK EXPERIENCE

February 2024 – present

Scientific Researcher CS III

National University of Science and Technology POLITEHNICA Bucharest

- Research activity,
- Development of intelligent applications and multimodal interfaces.

September 2022 – present

Scientific Researcher in the project “An AI-based System for Training in Cardiovascular Diseases Diagnostic and Treatment” (Virtual Patient)

National University of Science and Technology POLITEHNICA Bucharest

- Research activity,
- Development of the “Virtual Patient” platform.

November 2021 – January 2024

Scientific Researcher

National University of Science and Technology POLITEHNICA Bucharest

- Research activity,
- Development of intelligent applications and multimodal interfaces.

May 2021 – October 2021

Research Assistant

University POLITEHNICA of Bucharest

- Research activity,
- Development of intelligent applications and multimodal interfaces.

January 2019 – April 2021

Research Assistant in the complex project Robots and Society: Cognitive Systems for Personal Robots and Autonomous Vehicles (ROBIN)

University POLITEHNICA of Bucharest

- Research activity,
- Development of intelligent applications and multimodal interfaces.

October 2016 – December 2018

Research Assistant

IT Center for Science and Technology

- Research activity,
- Development of applications, interfaces and websites.

October 2014 – June 2019

PhD student

University POLITEHNICA of Bucharest

- Research activity.

March 2013 – September 2014

Developer & IT Administrator

Educational Research Center, Beirut, Lebanon

- Development of interactive books, websites and educational applications.
- Editing and integration of multimedia content,
- Testing the functionality of the products and their compatibility with different operating systems,
- Network administration.

October 2011 – February 2013

IT Administrator

Valmedica Medical Center (Cabinet de Gyneco.), Nimes, France

- Development of an automated programming system,
- Conversion of written documents into an automated system with a database,
- Network administration.

April 2011 – September 2011

Developer

CompuServe, Beirut, Lebanon

- Development of Websites,
- Development of applications and interfaces.

EDUCATION AND TRAINING

2014 - 2019

Doctor in the fundamental domain of Engineering Sciences, field of Computers and Information Technology

University POLITEHNICA of Bucharest

2006 - 2011

Master of Engineer in Computer Science, Multimedia, Systems & Networks

Antonine University, Zahle, Lebanon

PERSONAL SKILLS

Mother tongue(s)

Romanian, Arabic.

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C1	C1
French	C2	C2	C1	C1	C1

Communication skills

- Communication and public presentation skills - acquired by participating in various scientific events.

Organisational / managerial skills

- Teamwork skills - acquired through participation in collective projects, within the National University of Science and Technology POLITEHNICA Bucharest, within the IT Center for Science and Technology as well as within the Educational Research Center.
- Organisational skills - acquired through participation in the organisation of various scientific events, within the National University of Science and Technology POLITEHNICA Bucharest.

Computer skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Security	Problems solving
Experienced user	Experienced user	Experienced user	Experienced user	Experienced user

- Programming languages: C, C#, SQL, XML, MXML, HTML, HTML5, CSS, AS2, AS3, Java, JavaScript, jQuery, Angular, MATLAB, PHP & MySQL.
- Advanced knowledge of audio and video editing software.
- Advanced knowledge of MS Office, MS Project, Windows Server & Adobe Creative Suite/Cloud.
- Basic knowledge about Delphi, AutoCAD & 3Ds Max.

Driving licence

B category

Publications

- **Imad Alex Awada**, Adina Magda Florea and Alexandru Scafa-Udriște, “An e-Learning Platform for Clinical Reasoning in Cardiovascular Diseases: A Study Reporting on Learner and Tutor Satisfaction”, in: BMC Medical Education Journal, Vol. 24, 984, DOI: 10.1186/s12909-024-05938-6, ISSN: 1472-6920, September 2024.
- **Imad Alex Awada**, Adina Magda Florea and Alexandru Scafa-Udriște, “A Virtual Case Presentation Platform: Protocol Study”, in: Methods and Protocols Journal, Vol. 7, Iss. 2, 23, DOI: 10.3390/mps7020023, ISSN: 2409-9279, PubMed ID: 38525781, March 2024.
- **Imad Alex Awada**, Alexandru Sorici, Adina Magda Florea and Alexandru Scafa-Udriște, “Enhanced Design and Functionalities for the Virtual Patient Educational Platform”, in: Proceedings of the 24th International Conference on Control Systems and Computer Science (CSCS), pp. 473-476, DOI: 10.1109/CSCS59211.2023.00080, ISSN: 2379-0482, IEEE, May 2023.
- Alice Lavinia Chiru, **Imad Alex Awada**, Alexandru Sorici, Adina Magda Florea and Alexandru Scafa-Udriște, “A Support Module for the Virtual Patient Educational Platform”, in: Proceedings of the 10th edition of the IEEE International Conference on e-Health and Bioengineering (EHB), pp. 1-4, DOI: 10.1109/EHB55594.2022.9991475, ISSN: 2575-5145, November 2022.
- **Imad Alex Awada**, Alexandru Sorici, Marius Drăgoi, Adina Magda Florea and Alexandru Scafa-Udriște, “Virtual Patient: Architecture of an Educational Web Platform for the Assessment of Consultation and Diagnosing Skills of Medical Students”, in: Proceedings of the 15th annual International Conference of Education, Research and Innovation (ICERI), pp. 8080-8084, DOI: 10.21125/iceri.2022.2074, ISSN: 2340-1095, November 2022.
- Lionel Brunie, Sonia Ben Mokhtar, Dorothee Brac de la Perrière, Damien Fabrègue, Laëtitia Tondu, Amélie Cordier, Virginie Delplanque, Alizée Bertrand, Ophélie Coueffe, Harald Kosch, Ernesto Damiani, Stelvio Cimato, **Imad Alex Awada**, Andrei Olaru, Roland Wossidlo, Giampaolo Fiorentino, Leandro Lombardo, Francesco Saverio Nucci and Oana Cramariuc, “Training Future IT Leaders in a Collaborative and Multicultural Setting”, in: Proceedings of the 14th Annual International Conference on Education and New Learning Technologies (EDULEARN), pp. 5318-5321, DOI: 10.21125/edulearn.2022.1258, ISSN: 2340-1117, July 2022.
- Lionel Brunie, Sonia Ben Mokhtar, Dorothee Brac de la Perrière, Damien Fabrègue, Laëtitia Tondu, Amélie Cordier, Virginie Delplanque, Alizée Bertrand, Ophélie Coueffe, Harald Kosch, Ernesto Damiani, Stelvio Cimato, **Imad Alex Awada**, Andrei Olaru, Roland Wossidlo, Giampaolo Fiorentino, Leandro Lombardo, Francesco Saverio Nucci and Oana Cramariuc, “Fostering Student Entrepreneurship Mindset through the Embedding of International Student Teams into Start-Ups and the Study of Company-Driven Open Questions”, in: Proceedings of the 14th Annual International Conference on Education and New Learning Technologies (EDULEARN), pp. 4544-4549, DOI: 10.21125/edulearn.2022.1087, ISSN: 2340-1117, July 2022.
- **Imad Alex Awada**, Alexandru Sorici, Marius Drăgoi, Adina Magda Florea and Alexandru Scafa-Udriște, “Virtual Patient: A Web-Based Platform for the Training of Medical Students in Patient Consultation During a Lockdown”, in: Proceedings of the 14th Annual International Conference on Education and New Learning Technologies (EDULEARN), pp. 6491-6497, DOI: 10.21125/edulearn.2022.1533, ISSN: 2340-1117, July 2022.
- Alice Lavinia Chiru, **Imad Alex Awada** and Adina Magda Florea, “The Information Technology Service Operation Process Implementation in Education System During COVID-19 Pandemic”, in: Proceedings of the 16th Annual International Technology, Education and Development Conference (INTED), Valencia, Spain, pp. 445-451, DOI: 10.21125/inted.2022.0185, ISSN: 2340-1079, 2022.
- Bilal Hoteit, **Imad Alex Awada**, Alexandru Sorici and Adina Magda Florea, “Continuous Operations and Fully Autonomy of a Social Service Robotic System”, in: Proceedings of the 23rd International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), pp. 129-134, DOI: 10.1109/SYNASC54541.2021.00031, December 2021.
- Alice Lavinia Chiru, **Imad Alex Awada** and Adina Magda Florea, “A Support Process of Telemedicine Applications that Integrates a Chatbot”, in: Proceedings of the 9th edition of the IEEE International Conference on e-Health and Bioengineering (EHB), pp. 1-4, DOI: 10.1109/EHB52898.2021.9657553, ISSN: 2575-5145, November 2021.
- Alice Lavinia Chiru, **Imad Alex Awada** and Adina Magda Florea, “Incident Management that Integrates a Chatbot to Improve the use of Online Education Services”, in: Proceedings of the 14th annual International Conference of Education, Research and Innovation (ICERI), pp. 5357-5361, DOI: 10.21125/iceri.2021.1212, ISSN: 2340-1095, November 2021.

- Ana Cosmina Popescu, **Imad Alex Awada**, Irina Mocanu, Oana Cramariuc and Neja Samar Brenčić, "A Platform that Aims to Help People to Learn how to Interact with Robotic Platforms", in: Proceedings of the 13th Annual International Conference on Education and New Learning Technologies (EDULEARN), pp. 6342-6351, DOI: 10.21125/edulearn.2021.1285, ISSN: 2340-1117, July 2021.
- Bilal Hoteit, Ahmad Faour, Ali Abdallah, **Imad Alex Awada**, Alexandru Sorici and Adina Magda Florea, "Towards a General and Complete Social Assistive Robotic Architecture", in: Ahrum T., Taiar R., Groff F. (eds) Human Interaction, Emerging Technologies and Future Applications IV (IHET-AI 2021), Advances in Intelligent Systems and Computing, Vol. 1378, pp. 59-67, Springer, Cham, DOI: 10.1007/978-3-030-74009-2_8, 2021.
- **Imad Alex Awada** and Irina Mocanu, "An e-Learning Platform Adapted to the Online Learning System", in: Proceedings of the 15th Annual International Technology, Education and Development Conference (INTED), Valencia, Spain, pp. 7473-7479, DOI: 10.21125/inted.2021.1501, ISSN: 2340-1079, 2021.
- Alexandra Stefania Ghita, Alexandru Florin Gavril, Mihai Nan, Bilal Hoteit, **Imad Alex Awada**, Alexandru Sorici, Irina Mocanu and Adina Magda Florea, "The AMIRO Social Robotics Framework: Deployment and Evaluation on the Pepper Robot", in: Special Issue "Human-Robot Interaction and Sensors for Social Robotics", SENSORS Journal, Vol. 20, Iss. 24, 7271, DOI: 10.3390/s20247271, ISSN: 1424-8220, 2020.
- Bilal Hoteit, Ali Abdallah, Ahmad Faour, **Imad Alex Awada**, Alexandru Sorici and Adina Magda Florea, "AI Planning and Reasoning for a Social Assistive Robot", in: Proceedings of the 17th International Conference on Cognition and Exploratory Learning in Digital Age (CELDA), Lisbon, Portugal, pp. 141-148, ISBN: 978-989-8704-22-1, 2020.
- **Imad Alex Awada** and Irina Mocanu, "A Platform to Promote a more Active Lifestyle Between Students", in: Proceedings of the 16th eLearning & Software for Education Conference (eLSE), Bucharest, Romania, Vol. 3, pp. 355-362, DOI: 10.12753/2066-026X-20-217, 2020.
- **Imad Alex Awada**, Irina Mocanu and Oana Cramariuc, "An e-Learning Platform That Supports Personalized Learning and Multimodal Interactions", in: Proceedings of the 14th Annual International Technology, Education and Development Conference (INTED), Valencia, Spain, pp. 8828-8836, DOI: 10.21125/inted.2020.2405, ISSN: 2340-1079, 2020.
- **Imad Alex Awada**, Irina Mocanu, Alexandru Sorici and Adina Magda Florea, "An Integrated System for Improved Assisted Living of Elderly People", in: H. Costin, B. Schuller, A.M. Florea (eds) Recent Advances in Intelligent Assistive Technologies: Paradigms and Applications, Intelligent Systems Reference Library Vol. 170, pp. 111-141, DOI: 10.1007/978-3-030-30817-9_5, ISBN: 978-3-030-30817-9, Springer, 2020.
- **Imad Alex Awada**, Irina Mocanu, Dumitru-Iulian Nastac, Dan Benta and Serban Radu, "Adaptive User Interface for Healthcare Application for People with Dementia", in: Proceedings of the 17th RoEduNet Conference: Networking in Education and Research, Cluj-Napoca, Romania, pp. 96-100, DOI: 10.1109/ROEDUNET.2018.8514150, ISSN: 2247-5443, IEEE, 2018.
- **Imad Alex Awada**, Irina Mocanu and Adina Magda Florea, "Exploiting Multimodal Interfaces in eLearning Systems", in: Proceedings of the 14th eLearning & Software for Education Conference (eLSE), Bucharest, Romania, Vol. 2, pp. 174-181, DOI: 10.12753/2066-026X-18-094, 2018.
- **Imad Alex Awada**, Oana Cramariuc, Irina Mocanu, Cristina Seceleanu, Ashalatha Kunnappilly and Adina Magda Florea, "An End-User Perspective on the CAMI Ambient and Assisted Living Project", in: Proceedings of the 12th Annual International Technology, Education and Development Conference (INTED), Valencia, Spain, pp. 6776-6785, DOI: 10.21125/INTED.2018.1596, ISSN: 2340-1079, 2018.
- **Imad Alex Awada**, Irina Mocanu, Lucia Rusu, Raluca Arba, Adina Magda Florea and Bogdan Cramariuc, "Enhancing the Physical Activity of Older Adults Based on User Profiles", in: Proceedings of the 16th RoEduNet Conference: Networking in Education and Research (RoEduNet), Targu Mures, Romania, pp. 120-125, DOI: 10.1109/ROEDUNET.2017.8123749, ISSN: 2068-1038, IEEE, 2017.
- Ashalatha Kunnappilly, Alexandru Sorici, **Imad Alex Awada**, Irina Mocanu, Cristina Seceleanu and Adina Magda Florea, "A Novel Integrated Architecture for Ambient Assisted Living Systems", in: Proceedings of the 41st Computer Society International Conference on Computers, Software and Applications (COMPSAC), Turin, Italy, pp. 465-472, DOI: 10.1109/COMPSAC.2017.28, ISSN: 0730-3157, IEEE, 2017.

- **Imad Alex Awada**, Irina Mocanu, Sergiu Jecan, Lucia Rusu, Adina Magda Florea, Oana Cramariuc and Bogdan Cramariuc, "Mobile@Old - An Assistive Platform for Maintaining a Healthy Lifestyle for Elderly People", in: Proceedings of the 6th International Conference on E-Health and Bioengineering (EHB), Sinaia, Romania, pp. 591-594, DOI: 10.1109/EHB.2017.7995493, ISSN: 2575-5137, IEEE, 2017.
- **Imad Alex Awada**, Irina Mocanu, Adina Magda Florea and Bogdan Cramariuc, "Multimodal Interface for Elderly People", in: Proceedings of the 21st International Conference on Control Systems and Computer Science (CSCS), Bucharest, Romania, pp. 536-541, DOI: 10.1109/CSCS.2017.82, IEEE, 10.1109/CSCS.2017.82, IEEE, 2017.
- **Imad Alex Awada**, Andra Codreanu, Irina Mocanu, Adina Magda Florea and Mihaela Apostu, "An Adaptive Multimodal Interface to Improve Elderly People's Rehabilitation Exercises", in: Proceedings of the 13th eLearning and Software for Education Conference (eLSE), Bucharest, Romania, Vol. 2, pp. 41-47, DOI: 10.12753/2066-026X-17-092, 2017.
- Alexandru Sorici, **Imad Alex Awada**, Ashalatha Kunnappilly, Irina Mocanu, Oana Cramariuc, Lukasz Malicki, Cristina Seceleanu and Adina Magda Florea, "CAMI - An Integrated Architecture Solution for Improving Quality of Life of the Elderly", in: Ahmed M., Begum S. & Raad W. (Eds.) Internet of Things Technologies for HealthCare, HealthyIoT 2016, Vasteras, Sweden, Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, Vol. 187, Springer, Cham, DOI: 10.1007/978-3-319-51234-1_23, ISSN: 1867-8211, 2016.

Presentations

- The Virtual Patient Platform - A System for Training in Cardiovascular Diseases Diagnostic and Treatment, 11th edition of the Congress of the University of Medicine and Pharmacy "Carol Davila" Bucharest, Palace of the Parliament, Bucharest, Romania, October 2023.
- The Virtual Patient Platform, Interdisciplinary Workshop "Applications of Artificial Intelligence in Medicine", Bucharest, Romania, March 2023.
- Virtual Patient: Student Training in Cardiovascular Diseases Diagnostic and Treatment, "The Human Dimension of Artificial Intelligence" Workshop, Bucharest, Romania, June 2022.
- Virtual Patient: A Platform that Enables the Remote Training of Medical Students in Patient Consultation, Spring Scientific Conference of the Academy of Romanian Scientists, "The Digital Age – Challenges and Opportunities for Contemporary Society" (AOSR 2022), which took place in Bucharest, Romania, May 2022.
- Internet of Things for Ambient Assisted Living, 3rd FIT-Europe Seminar, Milan, Italy, November 2021.
- Autonomous Multimodal Interface for Sustainable Quality of Life, Workshop Young Researchers in Artificial Intelligence (TiCIA), Cluj-Napoca, Romania, September 2015.

Projects

- Virtual Patient - An AI-based System for Training in Cardiovascular Diseases Diagnostic and Treatment,
- ALAMEDA - Bridging the Early Diagnosis and Treatment Gap of Brain Diseases via Smart, Connected, Proactive and Evidence-based Technological Interventions,
- FIT Europe - Future IT Leaders for a Multicultural Digital Europe,
- ROBIN - The Robots and the Society: Cognitive Systems for Personal Robots and Autonomous Vehicle,
- ACTIVROBO - Improving the Understanding of the Scene by Recognizing some Human Activities by the Assistive Robots,
- CORSAR - A Framework for Programming and Configuring Social and Assistive Robots,
- NEMODRIVE - Intelligent Decision and Prediction System for Autonomous Driving of Electric Vehicles,
- INCARE - Integrated Solution for Innovative Elderly Care,
- IONIS - Indoor and outdoor NITICsplus solution for dementia challenges,
- SPARC - Enhanced Services for Client Assistance Using Robotic Platforms,
- CONSERT - A Context Management Middleware Servicing Ambient Intelligence Applications,
- CAMI - Artificially intelligent ecosystem for self-management and sustainable quality of life in AAL,
- MOBILE@OLD - Asistent pentru persoane vârstnice bazat pe modele de mobilitate,
- LEDSOL - Enabling Clean and Sustainable Water through Smart UV/LED Disinfection and SoLar Energy Utilization,
- CAREUP - Integrated Care Platform Based on the Monitoring of Older Individual Intrinsic Capacity for Inclusive Health,
- MERITT - Active and Healthy Living through Serious Games and Artificial Intelligence,
- PERHEART - Personalized ICT Solution to Reduce Re-Hospitalization Rates in Heart Failure Elderly Patients Suffering from,

- ACESO - Patient Centric Solution for Smart and Sustainable Healthcare,
- OMNI-Z - Versatile and Economically Viable Robotic Platform for Indoor Navigation in Cluttered Environments with Obstacles,
- ERMAT - Development of a Training Program for the Improvement of Quality of Life of Elder Persons with Reduced Mobility Through the Exploitation of Assistive Technologies,
- SASID - Senzor acustic inteligent pentru detecția intrușilor,
- MAGNANO - Dezvoltarea de nanostructuri magnetice prin electrotehnologii moderne,
- LOMAR - Localizare inteligenta la interior si cartografiere utilizând o platforma robotizata,
- RAFSIG - Tehnologii avansate de tratare a alimentelor utilizând tehnici de radiofrecvență pentru reducerea riscurilor privind sănătatea consumatorilor,
- PAV3M - Sistem inteligent de management, monitorizare si mentenanța a pavajelor si drumurilor folosind tehnici imagistice moderne,
- MCVRO - Identificarea si corelarea conceptelor din manuscrise si cărți vechi românești, cu ajutorul unei aplicații informatice, in vederea dinamizării sociale prin valorificarea producției culturale.
- NITICS - Networked InfrasTructure for Innovative Home Care Solutions,

Affiliations

- Member of the Romanian Association for Artificial Intelligence (ARIA),
- Member of the AI-MAS laboratory (Artificial Intelligence and Multi Agent Systems).

Forums

- Ambient Assisted Living (AAL) Forum, 2019 edition, Aarhus, Denmark, 2019,
- Ambient Assisted Living (AAL) Forum, 2018 edition, Bilbao, Spain, 2018 (*through two Posters*),
- Ambient Assisted Living (AAL) Forum, 2017 edition, Coimbra, Portugal, 2017,
- Ambient Assisted Living (AAL) Forum, 2016 edition, St. Gallen, Switzerland, 2016 (*through a Poster*).

September 2024