

EUROPASS CURRICULUM VITAE



PERSONAL INFORMATION

Name	Agnese Augello
Address	[REDACTED]
Phone	[REDACTED]
E-mail	[REDACTED]
Nazionalità	[REDACTED]
City and Date of birth	[REDACTED]

OCCUPATION

- Dates September 2011, present
- Name and address of employer Istituto di CAIcolo e Reti ad alte prestazioni, National Research Council, Italy
- Occupation or position held Researcher
h-index 22 (Google Scholar), 15 (fonte Web of Science)
- Main Activities and Responsibilities Staff research scientist at the ICAR-CNR (Istituto di CAIcolo e Reti ad alte prestazioni, Italian National Research Council), member of the research group "Augmented Human Computer Interaction". The research activity regards the modelling of social agents for the implementation of advanced human-machine interaction systems, with particular attention to issues concerning conversational systems, methodologies for representation and processing of knowledge at multiple levels of abstraction, semantic computing and cognitive architectures and their embodiment in humanoid robots. Cognitive architectures are exploited to model social and ethical behaviours and higher-level cognitive capabilities, such as motivation and creativity, through computational creativity processes.

EDUCATION AND TRAINING

Dates	January 2010 – December 2010
Title of qualification awarded	Master in Management di Start Up Innovative
Name and type of organisation providing education and training	Consorzio ARCA e dal Ministero dello Sviluppo Economico nell'ambito del progetto IDRA - Imprese dalla Ricerca Avanzata.
Dates	January 2005 – April 2008
Name and type of organisation providing education and training	University of Palermo
Title of qualification awarded	PhD in Computer Science
Dates	April 2004
Name and type of organisation providing education and training	University of Palermo

Title of qualification awarded Computer Science Degree (110/110 with Laude)

MOBILITY EXPERIENCES

Dates January 2018

Winner of the "Short Term Mobility" Program CNR, hosting Professor Virginia Dignum, Umeå University and member of the European Commission High-Level Expert Group on Artificial Intelligence.

Research Activity

Study of models based on social practice theory and ethics for designing responsible autonomous systems.

Dates July 2015

Winner of the "Short Term Mobility" Program CNR. Visiting Researcher at the Research Institute for Information and Computing Sciences di Utrecht. Professor Frank Dignum.

Research Activity

Social Conversational agents for serious games

DEMO

- Principal Author "NarRob: a storytelling robot ". GALA 2018 (Palermo 5-7-December 2018).
- AI4MUSEUM: Patrimonio culturale per i #NativiDigitali. Maker Faire (Rome, 12-14 October 2018)
- ROBODANZA: BICA (Biologically Inspired Cognitive Architectures), at Place Bellecour, Lion and "Il futuro prossimo delle Scienze Cognitive", Palazzo Steri, Palermo.
- Beauty of Knowledge (Social Robots Demonstration) Farnesina, Ministero Degli Affari Esteri, Rome, April 2018.

Teaching Experience

- 2009 "Cultore della materia" ING-INF/0
- Assistant supervisor of several theses at University of Palermo and assistant supervisor of the thesis: "Social Agents for Learning in Virtual Environments". Student: Lucas Weideveld, Supervisor Prof F. Dignum, "Master of Science", Institute of Information and Computing Sciences Department of Information and Computing Sciences, University of Utrecht
- Member of the Tribunal for the International PhD Thesis of Igor Rodriguez Rodriguez. Thesis: "Towards a framework for socially interactive robots", Tutor Maria Consuelo Ruiz Vazquez, Elena Lazkano Ortega. Departamento de Ciencia de la Computacion e Inteligencia Artificial dell'Universidad del Pais Vasco.
- From 2019 to 2022 Reference Professor at DAMS, University of Palermo
- 25-28 March, 2019 "Smart Robotic" course. Computational Engineering and Intelligent Systems Master Degree. Department of Computer Science and Artificial Intelligence, Basque Country University (UPV/EHU) 25-28 March, 2019 total hours 24. Invited by Prof. Elena Lazkano, RSAI research Group. Dealt Topics: Theory and practical exercises on research thematic in the field of social robotics based on ROS, modules for natural language interaction, face detection and recognition, sentiment analysis.
- 2017 "Social Practice Theory for Human-Computer Interaction". First International Early Research Career Enhancement School on BICA and Cybersecurity (FIERCES 2017), Mephy University Moscow, Russia. Invited by Prof. Alexei V. Samsonovich.
- "Applicazioni di Informatica", Ingegneria Meccanica, University of Palermo
- "Laboratorio Informatico Web", Lingue Moderne per il Web, University of Palermo

PROJECTS

- July 2023: Responsible Research Unit ICAR-CNR PRIN HERB - Human Explanation of Robotic Behaviour.
- Participant: Smart Bear – H2020 – Smart Big Data Platform to Offer Evidence-based Personalised Support for Healthy and Independent Living at Home.
- Participant: Smiler: Project @CNR. "Serious Game" (SG) digital therapeutics
- Responsible Research Unit ICAR-CNR CLEVERNESS -- teCnoLogiE cogNitiVE stRumeNti Educativi Supporto Sociale: Tecnologie cognitive per compensare gli effetti del distanziamento fisico: Strumenti educativi e di supporto sociale.
- Participant: VALUE, Azione 1.1.5 PO FESR Sicilia 2014/2020..
- Participant: ARTES 4.0 (Advanced Robotics and enabling digital Technologies & Systems 4.0)
- Participant: AMICO Assistenza Medica in Consapevolezza, PON "RICERCA E INNOVAZIONE" 2014 - 2020.
- Responsible Research Unit C.to Terzi ICAR-CNR Commitment: University of Palermo
- Participant: Corsi di formazione post-laurea per ricercatori, progettisti e sviluppatori di applicazioni ICT per le SMART-CITIES (prima e seconda edizione).
- Participant: PON "SINTESYS
- Participant: POR 2007/2013 - "IDS - Innovative Document Sharing".
- Participant: POR FRASI: FRamework for Agent-based Semantic-aware Interoperability".

NATIONAL AND INTERNATIONAL AWARDS AND RECOGNITIONS

- BICA Society Outstanding Research Award, awarded by BICA Society Board of Directors, National Research Nuclear University (MEPhy), 05/08/2017, BICA 2017 Moscow
- Best Paper Award, awarded by International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing Committee and Istituto Superiore Mario Boella, 12/07/2017, Article BioGraphBot: A Conversational Assistant for Bioinformatics Graph Databases, Authors: Antonio Messina, Agnese Augello, Giovanni Pilato, Riccardo Rizzo

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE(S)

Italian

OTHER LANGUAGE(S)

English

Reading

Good

Writing

Good

Spoken interaction

Good

SOCIAL SKILLS AND COMPETENCES

Attitude for interpersonal relations and teamwork

COMPUTER SKILLS AND COMPETENCES

Mysql, PostgreSQL, Web Server quali Apache Tomcat, Apache; Application Server: WildFly. Eclipse, NetBeans, Microsoft Visio, Choregraphe for Aldebaran robot, Unity, Blender, Robot Operating System (ROS), OpenCV, R Studio, Office Suite Microsoft Office, OpenOffice, Latex. Linguaggi Java, C, C++, Lisp, Prolog, Aiml, XML.

SELECTED PUBLICATIONS

- Augello, A., Gaglio, S., Infantino, I., Maniscalco, U., Pilato, G., & Vella, F. (2023). Roboception and adaptation in a cognitive robot. *Robotics and Autonomous Systems*, 164 doi:10.1016/j.robot.2023.104400 ISSN 09218890.
- Augello, Agnese; Caggianese, Giuseppe; Gallo, Luigi. VITE I Conference: Contributes in the Frame of a Human Augmentation Space Journal Article. In: *Journal of the Italian Astronomical Society*, vol. 97, no. 1, 2023. Presentazione pubblicata anche nelle videomemorie SAIT.
- Vacca, R. A., Augello, A., Gallo, L., Caggianese, G., Malizia, V., La Grutta, S., Murero M., Valenti D., Tullio, A., Balech B., Marzano, F., Ghezzi, A., Tancredi G., Tuchetta A., Riccio M.P., Bravaccio C., Scala I. (2023). Serious games in the new era of digital-health interventions: A narrative review of their therapeutic applications to manage neurobehavior in neurodevelopmental disorders. *Neuroscience and Biobehavioral Reviews*, 149 doi:10.1016/j.neubiorev.2023.105156 ISSN 01497634
- Augello, A., Infantino, I., Pilato, G., & Vitale, G. (2022). Extending affective capabilities for medical assistive robots. *Cognitive Systems Research*, 73, 21-25.
- Augello, A., Caggianese, G., & Gallo, L. (2022). Human Augmentation: An Enactive Perspective. In *International Conference on Extended Reality* (pp. 219-228). Springer, Cham.
- Augello, A., Città, G., Gentile, M., & Lieto, A. (2021). A storytelling robot managing persuasive and ethical stances via act-r: an exploratory study. *International Journal of Social Robotics*, 1-17, ISSN 18754791, 18754805, Q1 in Computer Science, Impact Factor 4.72.
- Luigi Gatto, Giuseppe Fulvio Gaglio, Agnese Augello, Giuseppe Caggianese, Luigi Gallo, Marco La Cascia. MET-iquette: enabling virtual agents to have a social compliant behavior in the Metaverse. *Proceedings of SITIS 2022, 16th International Conference on Signal-Image Technology & Internet-Based Systems*, 19-21 October 2022
- Dijon, France ISBN: 978-1-6654-6495-6 Augello Agnese. "Unveiling the reasoning processes of robots through introspective dialogues in a storytelling system: A study on the elicited empathy." *Cognitive Systems Research* (2022), Elsevier, ISSN 1389-0417, Volume 73, June 2022, Pages 12-20, <https://doi.org/10.1016/j.cogsys.2021.11.006Q2> in *Artificial Intelligence*, Impact Factor 3.523.
- Augello, A., Infantino, I., Pilato, G., & Vitale, G. (2022). Extending affective capabilities for medical assistive robots. *Cognitive Systems Research*, Elsevier, ISSN 1389-0417, Volume 73, June 2022, <https://doi.org/10.1016/j.cogsys.2021.12.004>, In Press, Q2 in *Artificial Intelligence*, Impact Factor 3.523.
- Augello, A., Infantino, I., Pilato, G., & Vitale, G. (2021). Site Experience Enhancement and Perspective in Cultural Heritage Fruition—A Survey on New Technologies and Methodologies Based on a "Four-Pillars" Approach. *Future Internet*, 13(4), 92, Q2 in *Computer Networks and Communications*.
- Ferrante, Giuliana, Gianpaolo Vitale, Amelia Licari, Laura Montalbano, Giovanni Pilato, Ignazio Infantino, Agnese Augello, and Stefania La Grutta. "Social robots and therapeutic adherence: A new challenge in pediatric asthma?" *Paediatric respiratory reviews* 40 (2021): 46-51.
- Gentile, M., Augello, A., Allegra, M., Città, G., Dal Grande, V., La Grutta, S., Pilato, G., Urso, A., Vella, F., Picone, M. and Gallitano, G., 2021, October. Gaming as a Key Approach for the Recovery Process of a Public Space: The Case Study of the Old Chemical Plant 'Chimica Arenella' in Palermo. In *Public Play Space Symposium* (pp. 94-95). ES.
- Augello, A., M. Gentile, and M. Picone. "Mind Games." In *Public Play Space Symposium*, pp. 84-93. ES, 2021.
- Adriana Bono, Augello A, Manuel Gentile, Salvatore Gaglio (2020). Social Practices based characters in a Robotic Storytelling System. In: *2020 29th IEEE International Conference on Robot and Human Interactive Communication (RO-MAN)*. vol. 76, Laguna Hills, CA, USA:IOS Press, ISBN: 978-1-4503-5237-6, 31/08/2020 - 04/09/2020, doi: 10.1109/ROMAN47096.2020.9223501
- Augello A, Linda Daniela, Manuel Gentile, Dirk Ifenthaler, Giovanni Pilato (2020). Editorial: Robot-Assisted Learning and Education. In: *Frontiers in Robotics and AI*. vol. 12249 LNCS, p. 967-977, ISBN: 978-3-319-59480-4, doi: 10.3389/frobt.2020.591319
- Bono, Adriana, Augello, Agnese, Pilato, Giovanni, Vella, Filippo, Gaglio, Salvatore (2020). An ACT-R Based Humanoid Social Robot to Manage Storytelling Activities. *ROBOTICS*, vol. 9, p. 1-19, ISSN: 2218-6581, doi: 10.3390/robotics9020025
- Giuliana Ferrante, Gianpaolo Vitale, Amelia Licari, Laura Montalbano, Giovanni Pilato, Ignazio Infantino, Augello A, Stefania La Grutta (2020). Social robots and therapeutic adherence: a new challenge in pediatric asthma?. *PAEDIATRIC RESPIRATORY REVIEWS*, ISSN: 1526-0542, doi: 10.1016/j.prrv.2020.11.001

- Irene Trifirò, Augello A, Umberto Maniscalco, Giovanni Pilato, Filippo Vella, Rosa Meo (2020). How are you? How a robot can learn to express its own roboceptions. *PROCEDIA COMPUTER SCIENCE*, ISSN: 1877-0509, doi: 10.1016/j.procs.2020.08.050
- Agnese Augello, Angelo Ciulla, Alfredo Cuzzocrea, Salvatore Gaglio, Giovanni Pilato, Filippo Vella: An Innovative System for Supporting Acquisition and Reproduction of Gestures in Storytelling Humanoid Robots. *J. Vis. Lang. Comput.* 2020(1): 17-26 (2020)
- Agnese Augello, Angelo Ciulla, Alfredo Cuzzocrea, Salvatore Gaglio, Giovanni Pilato, Filippo Vella: A Kinect-Based Gesture Acquisition and Reproduction System for Humanoid Robots. *ICCSA (1) 2020*: 967-977
- Agnese Augello, Ignazio Infantino, Salvatore Gaglio, Umberto Maniscalco, Giovanni Pilato, Filippo Vella: An Artificial Soft Somatosensory System for a Cognitive Robot. *IRC 2020*: 319-326
- Citta, Giuseppe, Gentile, Manuel, Augello A, Ottaviano, Simona, Allegra, Mario, Dignum, Frank (2019). Analyzing Creativity in the Light of Social Practice Theory. *FRONTIERS IN PSYCHOLOGY*, ISSN: 1664-1078, doi: 10.3389/fpsyg.2018.02752
- Augello A, Emanuele Cipolla, Ignazio Infantino, Adriano Manfrè, Giovanni Pilato, Filippo Vella (2018). Social signs processing in a cognitive architecture for an humanoid robot. *PROCEDIA COMPUTER SCIENCE*, ISSN: 1877-0509
- Augello A, Frank Dignum and Manuel Gentile and Ignazio Infantino and Umberto Maniscalco and Giovanni Pilato and Filippo Vella (2018). A social practice oriented signs detection for human-humanoid interaction. *BIOLOGICALLY INSPIRED COGNITIVE ARCHITECTURES*, ISSN: 2212-683X, doi: 10.1016/j.bica.2018.07.013
- Augello A, Ignazio Infantino, Umberto Maniscalco, Giovanni Pilato, Riccardo Rizzo, Filippo Vella (2018). Robotic Intelligence and Computational Creativity. *ENCYCLOPEDIA WITH SEMANTIC COMPUTING AND ROBOTIC INTELLIGENCE*, vol. 848, p. 9-15, ISSN: 2529-7392
- Augello A, Infantino, Ignazio and Maniscalco, Umberto and Pilato, Giovanni and Vella, Filippo (2018). Robot Inner Perception Capability Through a Soft Somatosensory System. *INTERNATIONAL JOURNAL OF SEMANTIC COMPUTING*, ISSN: 1793-7108, doi: 10.1142/S1793351X18400044
- Aurelie Clodic, Javier Vazquez-Salceda, Frank Dignum, Samuel Mascarenhas, Virginia Dignum, Augello A, Manuel Gentile, Rachid Alami (2018). On the pertinence of Social Practices for Social Robotics. In: *Proceedings of Robophilosophy 2018*. vol. 76, Vienna, Austria:Springer International, ISBN: 978-3-319-59480-4, Vienna, Austria, February 14-17, 2018
- Virginia Dignum, Frank Dignum, Javier Vazquez-Salceda, Aurelie Clodic, Manuel Gentile, Samuel Mascarenhas, Augello A (2018). Design for Values for Social Robot Architectures. In: *Proceedings of Robophilosophy 2018*. vol. 76, Vienna, Austria:Springer International, ISBN: 978-3-319-59480-4, Vienna, Austria, February 14-17, 2018
- Augello A, Ignazio Infantino, Antonio Lieto, Umberto Maniscalco, Giovanni Pilato, Filippo Vella (2017). Towards A Dual Process Approach to Computational Explanation in Human- Robot Social Interaction. In: *Proceedings of the IJCAI 2017*. vol. 848, p. 9-15, Melbourne:Springer International Publishing, ISBN: 978-3-319-52758-1, Melbourne, 19- 25/08/2017
- A Manfrè, Augello A, G Pilato, F Vella, I Infantino (2016). Exploiting interactive genetic algorithms for creative humanoid dancing. *BIOLOGICALLY INSPIRED COGNITIVE ARCHITECTURES*, ISSN: 2212-683X
- Augello A, Ignazio Infantino, Adriano Manfrè, Giovanni Pilato, Filippo Vella (2016). Analyzing and discussing primary creative traits of a robotic artist. *BIOLOGICALLY INSPIRED COGNITIVE ARCHITECTURES*, ISSN: 2212-683X
- Augello A, Infantino, Ignazio, Manfrè, Adriano, Pilato, Giovanni, Vella, Filippo, Chella, Antonio, Chella, Antonio (2016). Creation and cognition for humanoid live dancing. *Robotics and Autonomous Systems*, ISSN: 0921-8890, doi: 10.1016/j.robot.2016.09.012
- Augello A, Manuel Gentile and Lucas Weideveld and Frank Dignum (2016). Dialogues as Social Practices for Serious Games. In: *ECAI 2016 - 22nd European Conference on Artificial Intelligence*, 29 August-2 September 2016, The Hague, The Netherlands - Including Prestigious Applications of Artificial Intelligence (PAIS 2016). vol. 55, p. 637-647, Berlin , Germania:Springer, ISBN: 978-3-319-39344-5, The Haugue, 29/08/2016, doi: 10.3233/978-1-61499-672-9-1732
- Augello A, Infantino Ignazio, Lieto Antonio, Pilato Giovanni, Rizzo Riccardo, Vella Filippo (2015). Artwork creation by a cognitive architecture integrating computational creativity and dual process approaches. *BIOLOGICALLY INSPIRED COGNITIVE ARCHITECTURES*, vol. 11, p. 170-177, ISSN: 2212-683X, doi: 10.1016/j.bica.2015.09.007

- Augello A, Infantino Ignazio, Pilato Giovanni, Rizzo Riccardo, Vella Filippo (2015). Creativity evaluation in a cognitive architecture. BIOLOGICALLY INSPIRED COGNITIVE ARCHITECTURES, vol. 11, p. 170-177, ISSN: 2212-683X, doi: 10.1016/j.bica.2014.11.013
- Pilato, G, AUGELLO, Agnese, VASSALLO, Giorgio, GAGLIO, Salvatore (2008). EHeBby: An evocative humorist chat-bot. MOBILE INFORMATION SYSTEMS, vol. 4, p. 165-181, ISSN: 1574-017X, doi: 10.1155/2008/312319

INVITED PRESENTATIONS

- Invited Guest Speaker at Faculty of Computer Science and Information Technology (FCSIT) Universiti Malaysia Sarawak 94300 Kota Samarahan. TME4093 Cognitive Architectures for Social Robotics, 18/06/2021
- A. Augello, A. Santangelo, S. Sorce, G. Pilato, A. Gentile, A. Genco, S. Gaglio, "MAGA: A Mobile Archaeological Guide at Agrigento". SpeechTEK 2007, August 20-23, 2007, New York (Speaker: Antonio Gentile)

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Palermo, July 31 luglio 2023

Signature

Agnese Augello