

ALLEGATO B

UNIVERSITÀ DEGLI STUDI DI MILANO

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Daniela D'Auria CURRICULUM VITAE

INFORMAZIONI PERSONALI

COGNOME	D'AURIA
NOME	DANIELA
DATA DI NASCITA	04/11/1983

TITOLI

TITOLO DI STUDIO

- Master's Degree in Biomedical Engineering, University of Naples "Federico II", 25/05/2009
- Bachelor's Degree in Biomedical Engineering, University of Naples "Federico II", December 2006

TITOLO DI DOTTORE DI RICERCA O EQUIVALENTI, OVVERO, PER I SETTORI INTERESSATI, DEL DIPLOMA DI SPECIALIZZAZIONE MEDICA O EQUIVALENTE, CONSEGUITO IN ITALIA O ALL'ESTERO

PhD in Computer Science and Automation Engineering, University of Naples "Federico II", 16-04-2013, (Supervisors: Prof. Bruno Siciliano and Prof. Blake Hannaford)

HABILITATIONS

- Since Sep 2019 - Member of Ordine degli Ingegneri della Provincia di Napoli
- 2009/Dec - Ordine degli Ingegneri - Chartered Engineer Industrial Sector
- 2009/Sep - Ordine degli Ingegneri - Chartered Engineer Information Sector

CONTRATTI DI RICERCA, ASSEGNI DI RICERCA O EQUIVALENTI

- Contratto stipulato ai sensi dell'art. 24, della legge 30 dicembre 2010, n. 240, comma a); Ateneo/Ente: Libera Università di Bolzano, Dal 01/03/2020 Al in corso;
- Contratto di ricerca stipulato ai sensi dell'art. 1 comma 14 della legge 4 novembre 2005, n. 230, Ateneo/Ente: Libera Università di Bolzano, dal 01/11/2015 Al 31/10/2016;
- Contratto di assegno di ricerca dell'art. 51, della legge 27 dicembre 1997, n. 449 e successive modificazioni, Ateneo/Ente: Libera Università di Bolzano, dal 01/09/2015 Al 31/10/2015
- Contratto di borse post-dottorato ai sensi dell'art. 4, della legge 30 novembre 1989, n. 398, Ateneo/Ente: Università degli studi di Napoli "Federico II", dal 01/03/2014 Al 31/08/2015
- Analoghi contratti, assegni o borse in atenei stranieri, Ateneo/Ente: University of Washington, Seattle, USA, dal 15/09/2011 Al 01/11/2012

ATTIVITÀ DIDATTICA A LIVELLO UNIVERSITARIO IN ITALIA O ALL'ESTERO

During the below mentioned teaching activities at University, I carried out several lessons both theoretical and practical, also giving personal didactic assistance to students.

Ongoing Activities:

- Teaching assistant of the course "Introduzione alla Programmazione per il web", offered by the University of Trento, Academic Year 2022/2023 - second semester, bachelor degree in Computer Science Engineering, 75 hours.
- Teaching assistant of the course "Advanced Human Computer Interaction", offered by the University of Trento, Academic Year 2022/2023 - second semester, master degree in Computer Science Engineering, 10 hours.
- Teacher of the "Medical Robotics" course at the PhD Program in Engineering and Computer Science at the Department of Information Engineering, Computer Science and Mathematic at the University of L'Aquila Academic Year 2022/2023, 10 hours.

Past Activities:

- Teacher of the course "An Introduction to Artificial Intelligence", in collaboration with Prof. Diego Calvanese, offered by the Free University of Bozen-Bolzano, Degree Course: Computer science level and company level, A.A. 2020/2021 (10 hours).
- Teaching assistant at the Operating Systems course of the Bachelor's in computer science offered by the Free University of Bozen-Bolzano, Degree Course: Computer science, A.A. 2019/2020 (20 hours).
- Teaching assistant at the Operating Systems course of the Bachelor in Computer Science offered by the Free University of Bozen-Bolzano, Degree Course: Computer science, A.A. 2018/2019 (20 hours).
- Teaching assistant at the University of Napoli Federico II - School of Engineering, for the class "Robot Control" (delivered by Prof. B. Siciliano), Master's degree - under-graduate students of Computer science and Automation Engineering, A.A. 2010/2011.
- Teaching assistant at the University of Napoli Federico II - School of Engineering, for the class "Advanced Robotics" (delivered by Prof. B. Siciliano), Master's degree - under-graduate students of Computer science and Automation Engineering, A.A. 2010/2011.

Other Courses Lectured:

- Teacher at “Liceo Scientifico Galilei - Ites Einaudi”, Verona, for the class “Applied Mathematics”, high-school students.
- Teacher at “Liceo Scientifico Copernico-Pasoli”, Verona, for the class “Computer Science and Programming” and “Robotics”, high-school students.
- Teacher at “IT Marco Polo”, Verona, for the class “Computer Science and Programming”, high-school students.
- Teacher at “ITIS Alessandro Volta”, Napoli, for the class “Electrotechnics” and “Automation Systems”, high-school students.

DOCUMENTATA ATTIVITÀ DI FORMAZIONE O DI RICERCA PRESSO QUALIFICATI ISTITUTI ITALIANI O STRANIERI;

- **Since March 2020 - now:** Assistant Professor (RTD/A, ING-INF/05) at the Faculty of Computer Science of the Free University of Bozen-Bolzano, ITALY, under the supervision of Prof. Diego Calvanese
- **Since March 2020 - now:** member of Smart Data Factory, Technology Transfer Lab of the Faculty of Computer Science of the Free University of Bozen-Bolzano
- **Since Sep 2019 - now:** European Commission

Responsibilities - Working as an Expert for the European Commission for the Marie Skłodowska-Curie Action Individual Fellowships. More specifically, I am working on the evaluation of proposals, prize applications and tenders. I am monitoring actions, grant agreements and public procurement contracts. Also, I provide opinion and advise on the preparation, implementation and evaluation of EU programmes and design of policies about robotics fields.

- **Mar 2019 - Sep 2020:** Teaching Assistant at the Free University of Bozen-Bolzano.

Responsibilities - Teaching Assistant of the Operating Systems course of the Bachelor in Computer Science.

- **Mar 2018 - Sep 2019:** Teaching Assistant at the Free University of Bozen-Bolzano.

Responsibilities - Teaching Assistant of the Operating Systems course of the Bachelor in Computer Science.

- **Gen 2017 - Dec 2018:** Postdoctoral Research Fellow at the University of Napoli Federico II, School of Engineering.

Responsibilities - Collaboration with the University of Naples “Federico II” and the ICAROS Center (Interdepartmental Center for Advances in Robotic Surgery). More specifically, I focused on augmented reality platform for robot-assisted laparoscopic surgery, haptic interfaces for autonomous robot-assisted surgery, semantics in medical robotics, and the use of robots in the video surveillance context.

- **Nov 2015 - Nov 2016:** Postdoctoral Research Fellow at the Free University of Bozen-Bolzano.

Responsibilities - I worked on a project dealing with a mobile robot in the agricultural context.

- **Sep 2015 - Oct 2015:** Postdoctoral Research Fellow at Free University of Bozen-Bolzano.

Responsibilities - I worked on a project dealing with two industrial robots for pick-and-place activities.

- **Oct 2014 - June 2015:** Postdoctoral Research Fellow at the University of Napoli Federico II, School of Engineering.

Responsibilities - I worked on a project dealing with design and development of engineered solutions based on human-computer interaction in the cultural heritage context for a real time accessibility.

- **Mar 2014 - Sep 2014:** Postdoctoral Research Fellow at the University of Napoli Federico II, School of Engineering.

Responsibilities - I worked on a project dealing with design and development of engineered solutions based on human-computer interaction in the cultural heritage context for a real time accessibility.

- **May 2013 - Feb 2014:** Postdoctoral Research Fellow at the University of Napoli Federico II, School of Engineering.

Responsibilities - I worked on a project dealing with a simulator for Robot-Assisted Laparoscopic Surgery and on a project dealing with a realization of a.

- **May 2013 - Dec 2013:** Responsible for the Signal Integrity and Power Integrity analysis for integrated circuits for the company Link Engineering Srl, Bollate (MI).

Responsibilities - I worked on a project whose main responsibilities dealt with support and research during the design, industrialization and construction of electronic devices, as well as analysis of power integrity and signal integrity.

- **Sep 2011 - Nov 2012:** PhD Visiting Scholar at the BIOROBOTICS LAB, University of Washington, Seattle, USA.

Responsibilities - Under the supervision of the Prof. Blake Hannaford I worked on a project dealing with the development of a new low-cost surgery robotic simulator for the developing countries. Moreover, I also worked on a project for the laparoscopic surgery using the open architecture surgical robot "Raven" and on "The Da Vinci Robot" at the Washington University of Medicine for testing new hysteroscopy surgery procedures.

- **Dec 2009:** Obtained the Italian Habilitation as an Engineer (Industrial Sector).
- **Sep 2009:** Obtained the Italian Habilitation as an Engineer (Information Sector).

DOCUMENTATA ATTIVITÀ IN CAMPO CLINICO

- Experimentation at the Washington University of Medicine, Seattle, USA, for testing a new hysteroscopy for surgery procedures
- Experimentation at the Washington University of Medicine, Seattle, USA, for testing a new low-cost surgery robotic simulator for developing countries
- Experimentation at the Ospedale Pellegrini, Napoli, for testing a new shoulder prosthesis
- Experimentation at the Ospedale Pineta Grande Hospital, Caserta, for testing a telemedicine system for COVID

REALIZZAZIONE DI ATTIVITÀ PROGETTUALE

- Pineta Grande Hospital (Caserta) - I am collaborating with the hospital's COVID center in order to collect data for improvement of a developed application for monitoring patients affected by COVID (reCOVeralD).

- Scuola Superiore Sant'Anna Pisa - I am collaborating with such institutions on an intelligent telemonitoring application for symptomatic, asymptomatic and pre-symptomatic coronavirus patients (reCOVeryaID).
- PRISMA (Projects of Robotics for Industry and Services, Mechatronics and Automation) Lab - International research group, University of Naples Federico II, Italy. In this context, I worked on applications using the new technologies of soft robotics that combine cognitive reaction and safe physical human-robot interaction, and on the manipulation of flexible and deformable objects in the medical context for operating on soft tissues, including muscles and skin.
- BioRobotics Lab - International robotic research groups, University of Washington in Seattle, USA. In that context, I had the opportunity to work on two big and multidisciplinary projects; the former dealt with the development of an innovative surgery simulator able to address some obstacles when doing some open surgery performances, in collaboration with the UW Medicine Department (see next point). The latter dealt with the development of a new manipulator aimed at improving the electromechanical limitations of current surgery robotic systems (patent: D. D'Auria, B. Goff, B. Hannaford, Lighted Uterine Manipulator, pending, 2013).
- UW Medicine - Department Otolaryngology Head and Neck surgery. I interacted with some medical doctors of the UW Medicine Department in the context of the project dealing with the development of an innovative surgery simulator able to address some obstacles when doing some open surgery performances (see previous point). More specifically, I continuously interacted with them during the design, the development, and the testing processes.
- Urology Hospital Center - department of urology at the University of Naples "Federico II" Hospital, Italy. After my visiting scholarship at the UW, I had the opportunity to interact with some medical doctors of the Urology Hospital Center of the University of Naples "Federico II", who were very interested in understanding the functionalities of the manipulator designed and developed during my stay in Seattle, in order to apply the same approach in the urological context.
- Link Engineering Srl - Industrial PCB engineering physical design and industrialization of electronic equipment, Bollate (MI), Italy. In this context, I had the opportunity to provide my knowledge on engineering of electronic systems.
- PRISCA Lab (Progetti di Robotica Intelligente e Sistemi Cognitivi Avanzati) - International research group, University of Naples Federico II, Italy. In this laboratory, I worked on two projects in the cultural heritage context. More specifically, the former dealt with the design and development of a 3D audio system, and the latter with the development of an effective eye tracker system.
- Hysteroscopy hospital center - Gynecology and Obstetrics department at the University of Naples "Federico II" Hospital, Italy. In this context, after my visiting scholarship at the UW, I had the opportunity to interact with some medical doctors of the Gynecology and Obstetrics department of the University of Naples "Federico II", who were very interested in understanding the functionalities of the manipulator designed and developed during my stay in Seattle. As a result, we decided to write a project together (e-HealthNet Project, see section 3.5).
- Faculty of Science and Technology - International research group of the Free University of Bozen-Bolzano, Italy. In this context, I first worked on a robot for industrial pick-and-place operations. Then, I worked on the modeling, and testing of dynamic systems in the agricultural contexts. This implied massive experimentations in real settings, in the following locations: Ovada (AL), Carezza (BZ), Silandro (BZ), Pozzuolo (UD), and Laimburg (BZ).
- ICAROS Center - Interdepartmental Center for Advances in Robotic Surgery of the University of Naples Federico II, Italy. In this context I worked on augmented reality platforms for robotic-assisted laparoscopic surgery, in collaboration with the medical doctors of the joint department (e-HealthNet Project, see section 3.5).
- Ospedale Vecchio Pellegrini - Department of General Surgery and Emergency, Italy. In this context, I had the opportunity to work on the design and development of a prosthesis for surgical purposes, applicable to the shoulder. This activity was carried out in collaboration with the well-known orthopedic, Prof. Raffaele Russo.

ORGANIZZAZIONE, DIREZIONE E COORDINAMENTO DI GRUPPI DI RICERCA NAZIONALI E INTERNAZIONALI, O PARTECIPAZIONE AGLI STESSI

- **Hospital (Caserta)** - I am collaborating with the hospital's COVID center in order to collect data for improvement of a developed application for monitoring patients affected by COVID (reCOVeralD).
- **Scuola Superiore Sant'Anna Pisa** - I am collaborating with such institutions on an intelligent telemonitoring application for symptomatic, asymptomatic and pre-symptomatic coronavirus patients (reCOVeralD).
- **Faculty of Computer Science of Free University of Bozen-Bolzano** - I am collaborating as an RTD/A on the use of AI in e-health projects.
- **SDF (Smart Data Factory) Lab** - I am collaborating as a member of the lab for the technological transfer of computer science faculty research results to the corporate world.
- **PRISMA (Projects of Robotics for Industry and Services, Mechatronics and Automation) Lab** - International research group, University of Naples Federico II, Italy. In this context, I worked on applications using the new technologies of soft robotics that combine cognitive reaction and safe physical human-robot interaction, and on the manipulation of flexible and deformable objects in the medical context for operating on soft tissues, including muscles and skin.
- **IEEE TCSEM** - Collaboration as a chair at IEEE Technical Community on Semantic Computing.
- **University of California, Irvine** - Multi-year collaboration with Prof. Phil Sheu of the University of California, Irvine, USA.
- **Deggendorf Institute of Technology** - Multi-year collaboration with Prof. Mouzhi Ge of the Deggendorf Institute of Technology, Germany.
- **ICAR/CNR** - Collaboration with Dr. Giovanni Pilato of the Institute of High Performance Computing and Networks of the National Research Council (ICAR/CNR), Palermo, Italy.
- **BioRobotics Lab** - International robotic research groups, University of Washington in Seattle, USA. In that context, I had the opportunity to work on two big and multidisciplinary projects; the former dealt with the development of an innovative surgery simulator able to address some obstacles when doing some open surgery performances, in collaboration with the UW Medicine Department (see next point). The latter dealt with the development of a new manipulator aimed at improving the electromechanical limitations of current surgery robotic systems (patent: D. D'Auria, B. Goff, B. Hannaford, Lighted Uterine Manipulator, pending, 2013).
- **UW Medicine** - Department Otolaryngology Head and Neck surgery. I interacted with some medical doctors of the UW Medicine Department in the context of the project dealing with the development of an innovative surgery simulator able to address some obstacles when doing some open surgery performances (see previous point). More specifically, I continuously interacted with them during the design, the development, and the testing processes.
- **Urology Hospital Center** - department of urology at the University of Naples "Federico II" Hospital, Italy. After my visiting scholarship at the UW, I had the opportunity to interact with some medical doctors of the Urology Hospital Center of the University of Naples "Federico II", who were very interested in understanding the functionalities of the manipulator designed and developed during my stay in Seattle, in order to apply the same approach in the urological context.
- **Link Engineering Srl** - Industrial PCB engineering physical design and industrialization of electronic equipment, Bollate (MI), Italy. In this context, I had the opportunity to provide my knowledge on engineering of electronic systems.
- **PRISCA Lab (Progetti di Robotica Intelligente e Sistemi Cognitivi Avanzati)** - International research group, University of Naples Federico II, Italy. In this laboratory, I worked on two projects in the cultural heritage context. More specifically, the former dealt with the design and development of a 3D audio system, and the latter with the development of an effective eye tracker system.
- **Hysteroscopy hospital center** - Gynecology and Obstetrics department at the University of Naples "Federico II" Hospital, Italy. In this context, after my visiting scholarship at the UW, I had the opportunity to interact with some medical doctors of the Gynecology and Obstetrics department of the University of Naples "Federico II", who were very interested in understanding the functionalities of the manipulator designed and developed during my stay in

Seattle. As a result, we decided to write a project together (e-HealthNet Project, see section 3.5).

- **Faculty of Science and Technology** - International research group of the Free University of Bozen-Bolzano, Italy. In this context, I first worked on a robot for industrial pick-and-place operations. Then, I worked on the modeling, and testing of dynamic systems in the agricultural contexts. This implied massive experimentations in real settings, in the following locations: Ovada (AL), Carezza (BZ), Silandro (BZ), Pozzuolo (UD), and Laimburg (BZ).
- **ICAROS Center** - Interdepartmental Center for Advances in Robotic Surgery of the University of Naples Federico II, Italy. In this context I worked on augmented reality platforms for robotic-assisted laparoscopic surgery, in collaboration with the medical doctors of the joint department (e-HealthNet Project, see section 3.5).
- **Ospedale Vecchio Pellegrini** - Department of General Surgery and Emergency, Italy. In this context, I had the opportunity to work on the design and development of a prosthesis for surgical purposes, applicable to the shoulder. This activity was carried out in collaboration with the well-known orthopedic, Prof. Raffaele Russo.

TITOLARITÀ DI BREVETTI

Patent: D. D'Auria, B. Goff, B. Hannaford, Lighted Uterine Manipulator, pending, 2013.

ATTIVITÀ DI RELATORE A CONGRESSI E CONVEGNI NAZIONALI E INTERNAZIONALI

Presentations at Conferences

2022

- D D'Auria, F Persia, Privacy Protection and Regulatory Aspects in the context of Medical Apps, 2022 IEEE IRC, Naples, Italy.

2021

- D D'Auria, F Persia, Robots against the Coronavirus: the need for a new generation of robots to help global society, 2021 IEEE 15th International Conference on Semantic Computing (ICSC), virtual.

2020

- F Persia, D D'Auria, G Pilato, Fast Learning and Prediction of Event Sequences in a Robotic System, 2020 Fourth IEEE International Conference on Robotic Computing (IRC), virtual.
- JR Barr, D. D'Auria, F. Persia, Telemedicine, Homecare in the Era of COVID-19 & Beyond, 2020 IEEE Third International Conference on Artificial Intelligence for Industries (AI4I)), virtual.

2019

- D. D'Auria, F. Persia, F. Bettini, S. Helmer, Predicting and Preventing Dangerous Events via Video Surveillance Using a Robotic Platform, 2019 Third IEEE International Conference on Robotic Computing (IEEE IRC 2019), Naples, Italy

2018

- D. D'Auria, F. Persia, Design of a Framework allowing Researchers to Optimize their Academic Evaluation. In the First IEEE International Conference on Artificial Intelligence for Industries (IEEE ai4i 2018), Laguna Hills, California, September 26-28, 2018
- D. D'Auria, Persia F, F. Bettini, S. Helmer, B. Siciliano, SARRI: a SmArt Rapiro Robot Integrating a framework for automatic high-level surveillance event detection. In: 2018 Second IEEE International Conference on Robotic Computing (IRC). IEEE, Laguna Hills, USA, 2018

2017

- D'Auria D, Persia F (2017). The Role of Semantics in Improving Medical Doctors' Performance. In: 2017 First IEEE International Conference on Robotic Computing (IRC). IEEE, Taichung, Taiwan 10.4.2017 - 12.4.2017.
- Fabio Persia, Daniela D'Auria, A Survey of Online Social Networks: Challenges and Opportunities, IEEE Information Reuse and Integration (IRI), San Diego, USA, 2017

2016

- D. D'Auria, G. Ristorto, R. Gallo and F. Mazzetto, Tracked robot over a slope path: Dynamic stability control, 2016 IEEE IRI 2016, Pittsburgh, USA, July 2016
- D. D'Auria, G. Ristorto and F. Mazzetto, Development and Preliminary Test of a Mobile Lab for the orchard crop monitoring, MECHTECH 2016 Conference, Alghero, Italy, May 2016
- D. D'Auria, F. Persia, B. Siciliano, Human-computer interaction in healthcare: How to support patients during their wrist rehabilitation, 2016 IEEE International Conference on Semantic Computing, Laguna Hills, CA, Feb. 2016

2015

- D. D'Auria, F. Persia, B. Siciliano, A Low-Cost Haptic System for Wrist Rehabilitation

IEEE IRI 2015, San Francisco, USA, August 13-15, 2015

2014

- D. D'Auria, D. Di Mauro, D. Calandra, and F. Cutugno, Interactive Headphones for a Cloud 3D Audio Application, 3PGCIC, Guangzhou, China, Nov. 2014
- D. D'Auria, D. Di Mauro, D. Calandra, and F. Cutugno, Caruso: Interactive Headphones for a Dynamic 3D Audio Application in the Cultural Heritage Context, IEEE IRI, San Francisco, CA, Aug. 2014
- F. Persia and D. D'Auria, Automatic Evaluation of Medical Doctors' Performances while Using a Cricothyrotomy Simulator, IEEE IRI, San Francisco, CA, Aug. 2014
- Daniela D'Auria, Fabio Persia, Discovering expected activities in medical context scientific databases, Proceedings of 3rd International Conference on Data Management Technologies and Applications, DATA 2014, Vienna

2012

- L. White, D. D'Auria, R. Bly, P. Bartell, N. Aghdasi, C. Jones, B. Hannaford, Cricothyrotomy Simulator Training for the Developing Word, IEEE Global Humanitarian Technology (GHTC), Seattle, WA, Oct. 2012

Invited Talks and Seminars

- Seminar: D. D'Auria, "Applications of AI in the medical field", Department of Computer Science, University of Verona, February 2023
- Seminar: D. D'Auria, "From video surveillance to medicine: some recent robotic applications" Department of Information Engineering, University of Brescia, February 2023
- Invited Talk: D. D'Auria, "A Smart Ecosystem to improve Patient Monitoring using Wearables, Intelligent Agents, Complex Event Processing and Image Processing", SMMHe '23 (Smart Media and Mobile Health), CNR, Milano, January 2023
- Invited Talk: D. D'Auria, "reCOVeryaID - an application for telemedicine: system architecture and results", International Medical Informatics and Telemedicine Conference, ITIM 2022, NOI Techpark Bolzano, December 2022
- Invited Talk: D. D'Auria, A smart robot integrating a framework for automatic high-level surveillance event detection, November 2018, AlmageLab, Unimore, Modena, Italy
- Invited Talk: D. D'Auria, "SARRI, a SmArT Rapiro Robot Integrating a framework for automatic high-level surveillance event detection", Second International Workshop on Semantic Multimedia Computing (SMC '18), in conjunction with the 12th IEEE International Conference on Semantic Computing (IEEE ICSC 2018), February 2, 2018, Laguna Hills, California, USA
- Invited talk: D. D'Auria, "Introduction to a Phd School about Semantics in Robotics", Liceo "Cantore" Brunico, 2017
- Seminar: D. D'Auria, "Surgical robotics", May 2014, INRIA Sophia Antipolis, Nice, France
- Seminar: D. D'Auria, "A new surgeon simulator", September 2013, LIRMM, CNRS, Montpellier University, Montpellier, France
- Seminar: D. D'Auria, "Using 3D Prototyping systems to create Smart and Low-Cost Robotic Devices", Dipartimento di Ingegneria Elettrica e Tecnologie dell'Informazione, Università degli studi di Napoli "Federico II", January 2013
- Seminar: D. D'Auria, "A low cost surgical simulator and a new uterine manipulator", October 2012, Center for Computer Science and Engineering, Seattle, USA
- Seminar: D. D'Auria, "Medical Simulator: a new tool for training and skill assessment", October 2012, Center for Computer Science and Engineering, Seattle, USA

CONSEGUIMENTO DI PREMI E RICONOSCIMENTI NAZIONALI E INTERNAZIONALI PER ATTIVITÀ DI RICERCA

International Awards

- **IEEE Best Leadership Award**, Presented At IEEE ISM/IRC/BigMM 2022 (Naples 2022), December 5-7, Naples, Italy

TITOLI DI CUI ALL'ARTICOLO 24 COMMA 3 LETTERA A) E B) DELLA LEGGE 30 DICEMBRE 2010, N. 240

- **Since March 2020 - now:** Contratto stipulato ai sensi dell'art. 24, della legge 30 dicembre 2010, n. 240, comma a); Ateneo/Ente: Libera Università di Bolzano, Dal **01 03 2020** Al **in corso**;

Assistant Professor (RTD/A, ING-INF/05) at the Faculty of Computer Science of the Free University of Bozen-Bolzano, ITALY, under the supervision of Prof. Diego Calvanese.

ORGANIZZAZIONE DI EVENTI LEGATI ALLA RICERCA O ALL'INSEGNAMENTO

2023

- **Main Program Co-Chair** - Main organizer of the 16th IEEE International Conference on Semantic Computing (IEEE ICSC 2023), Laguna Hills, CA, USA, 1-3 Feb 2023
- University representative at the Open Day for Schools, NOI Techpark, 2023

2022

- **Main Program Co-Chair** of the 6th IEEE International Conference on Robotic Computing, Naples, Italy 2022
- **Main Program Co-Chair** - of the 15th IEEE International Conference on Semantic Computing (IEEE ICSC 2022), Virtual
- Program Co-Chair of the 24th IEEE International Symposium on Multimedia, ISM 2022, Naples, Italy
- University representative at the Open Day for Schools, NOI Techpark, November 2022

2021

- **Main Program Co-Chair** of the 4th IEEE International Conference on Artificial Intelligence for Industries (IEEE ai4i 2021), Virtual
- **Main Program Co-Chair** of the 14th IEEE International Conference on Semantic Computing (IEEE ICSC 2021), Virtual
- Program Co-Chair of the 5th IEEE International Conference on Robotic Computing, Taichung, Taiwan, 2021
- Program Co-Chair of the 23rd IEEE International Symposium on Multimedia, ISM 2021, Virtual

2020

- **Main Program Co-Chair** of the 3th IEEE International Conference on Artificial Intelligence for Industries (IEEE ai4i 2020), Irvine, CA, USA

- **Main Program Co-Chair** organizer of the 13th IEEE International Conference on Semantic Computing (IEEE ICSC 2020), Newport Beach, CA, USA
- Program Co-Chair of the 4th IEEE International Conference on Robotic Computing, Taichung, Taiwan, 2020

2019

- Program Co-Chair of the First IEEE International Conference on Conversational Data & Knowledge Engineering, Dec 9-11, San Diego, 2019
- Demo track Pc Member, Web Intelligence, Thessaloniki, Greece, 2019
- Program Co-Chair and Local Main Organizer of the 3rd IEEE International Conference on Robotic Computing (IEEE IRC 2019), Napoli, Italy
- **Main Program Co-Chair** of the 3th International Workshop on Semantic Robotics (SR 2019), Newport Beach, CA, USA
- Program Committee Member of the 5th International Workshop on Collaboration for Humans, Agents, Robots, Machines and Sensors (CHARMS 2018), Napoli, Italy
- Workshop and Special Session Committee Co-Chairs of the 13th IEEE International Conference on Semantic Computing (IEEE ICSC 2019), Newport Beach, CA, USA
- Program Co-Chair of the Second International Workshop on Semantic Multimedia Computing (SMC 2019), Newport Beach, CA, USA

2018

- **Main Program Co-Chair** of the First IEEE International Conference on Artificial Intelligence for Industries (IEEE AI4I 2018), Laguna Hills, CA, USA
- Member of the Organizing Committee of the Second IEEE International Conference on Robotic Computing (IEEE IRC 2018), Laguna Hills, CA, USA
- Member of the Organizing Committee of the 2nd International Workshop on Application of Semantic Web technologies in Robotics, AnSWer 2018, Monterey, CA, USA
- Program Committee of the 4th International Workshop on Collaboration for Humans, Agents, Robots, Machines and Sensors (CHARMS 2018), Laguna Hills, CA, USA
- Tutorial Committee Co-Chair of the 2018 IEEE First International Conference on Robotic Computing, Laguna Hills, CA, USA
- Program Co-Chair and Main Organizer of the Second International Workshop on New Frontiers in Computational Robotics (NFCR 2018), Laguna Hills, CA, USA
- Member of the Organizing Committee of the 12th IEEE International Conference on Semantic Computing (IEEE ICSC 2018), Laguna Hills, CA, USA
- Program Co-Chair and Main Organizer of the Second International Workshop on Semantic Robotics (SR 2018), Laguna Hills, CA, USA
- Program Co-Chair of the Second International Workshop on Semantic Multimedia Computing (SMC 2018), Laguna Hills, CA, USA

2017

- PhD School event: **Main Organizer** from Italy of the Phd School about Semantics in Robotics, collocated with the First IEEE International Conference on Robotic Computing (IEEE IRC 2017), Taichung, Taiwan
- School event: Liceo “Cantore” Brunico, “Introduction to a Phd School about Semantics in Robotics”, 2017
- Member of the Organizing Committee of the First IEEE International Conference on Robotic Computing (IEEE IRC 2017), Taichung, Taiwan
- **Main Program Co-Chair** of the 11th IEEE International Conference on Semantic Computing (IEEE ICSC 2017), Laguna Hills, CA, USA
- Program Committee of the 3rd International Workshop on Collaboration for Humans, Agents, Robots, Machines and Sensors (CHARMS 2017), Taichung, Taiwan
- **Main Program Co-Chair** of the Special Session on New frontiers in Computational Robotics - IEEE ICRC 2017, Taichung, Taiwan
- **Main Program Co-Chair Organizer** of the 1st Workshop on Robotic Medical Devices and Semantic Systems (RMDSS 2017), Taichung, Taiwan
- Tutorial Committee Chair of the 2017 IEEE First International Conference on Robotic Computing, Taichung, Taiwan
- **Main Program Co-Chair** of the First International Workshop on Semantic Robotics (SR 2017), San Diego, CA, USA
- Program Co-Chair of the First International Workshop on Semantic Multimedia Computing (SMC 2017), San Diego, CA, USA
- **Main Program Co-Chair** of the First International Workshop on New Frontiers in Computational Robotics (NFCR 2017), Taichung, Taiwan
- Member of the Organizing Committee of the 2nd International Workshop on Application of Semantic Web technologies in Robotics, AnSWer 2017, Portoroz, Slovenia

2016

- Member of the Organizing Committee of the First Workshop on Behavior Adaptation, Interaction and Learning for Assistive Robotics - BAILAR 2016, NYC, USA

2015

- PC Member of the 3rd International Workshop on Cloud and Distributed System Applications (CADSA), within the 10th International Conference on P2P, Parallel, Grid, Cloud and Internet Computing 2015, Krakow, Poland

2014

- PC Member of the 2nd International Workshop on Cloud and Distributed System Applications (CADSA), within the 9th International Conference on P2P, Parallel, Grid, Cloud and Internet Computing 2014, Guangdong, China

2011

- Exhibition: D. D'Auria, "Nuova Frontiera della Robotica: Interazione e Cooperazione con l'Uomo", Mostra: Donne e Scienza, March 2011, Città della Scienza, Napoli

ATTIVITA' EDITORIALI DI JOURNAL E ATTIVITA' DI REVISORE

Associate Editor of International Peer Reviewed Journal

- International Journal of Robotic Computing (IJRC) - KS PRESS

Special Issue Editor

- International Journal of Semantic Computing (IJSC) - World Scientific
- Encyclopedia with Semantic Computing and Robotic Computing (ESCRI) - World Scientific

Reviewer activity for journals:

- Applied Sciences, Actuators, Transaction on cloud Computing, Journal of Motor Behavior, International Journal of Semantic Computing, Encyclopedia with Semantic Computing and Robotic Computing.

Reviewer activity for conferences:

- European Commission Proposal for the Marie Skłodowska-Curie Action Individual Fellowships (European Commission Horizon 2020); IEEE ICSC 2017, 2018, 2019, 2020, 2021, 2022, 2023; IEEE IRC 2017, 2018, 2019, 2020, 2021, 2022; IEEE CDKE 2019; ACM WI 2019; IEEE ai4i 2018, 2019, 2020,2021,2022; SMC 2017, 2018, 2019, 2020,2021,2022; SR 2017, 2018, 2019, 2020, 2021; CHARMS 2017, 2018, 2019, 2020, 2021,2022; NFCR 2017, 2018, 2019, 2020, 2021,2022; PAAMS 2019,2020,2021,2022; AnSWer 2017, 2018,20; RMDSS 2017; IEA/AIE 2016; BAILAR 2016; CADSA 2015.

SUPERVISION ACTIVITIES - UNIVERSITY LEVEL

My supervision activity described below has lead to the realization of a number of interesting applications in the robotic and engineering fields with both experimental work in laboratory and theoretical/simulation studies.

Dipartimento di Ingegneria Elettrica e Tecnologie dell'Informazione (DIETI), University of Naples:

- I was the Supervisor of both Bachelor and Master thesis of 7 students at the Dipartimento di Ingegneria Elettrica e Tecnologie dell'Informazione.

Faculty of Science and Technology, Free University of Bozen-Bolzano:

- I was the main Supervisor of 1 Bachelor student from the Faculty of Science and Technology.

Ongoing activities:

Faculty of Computer Science, Free University of Bozen-Bolzano:

- I am the main Supervisor of 1 Bachelor student (Ludovica Barozzi) from the Faculty of Computer Science for internship and thesis on on “Sensorization techniques of a transesophageal ultrasound probe for early detection of overheating during clinical procedures”. Joint thesis with the Institute of Biorobotics at Sant’Anna University of Pisa.

University of Auckland, Faculty of Science, School of Computer Science

- I am the examiner for Ganesh Selvaraj’s doctoral dissertation at the University of Auckland.

PUBBLICAZIONI CIRCA LA CANDIDATA SU ARTICOLI DI GIORNALE E MEDIA

- Published by: Affaritaliani.it il primo quotidiano digitale, 25 March 2013,
“Nasce RoDyMan, il Robot pizzaiolo”. <http://www.affaritaliani.it/campania/nasce-rodyman-il-robot-che.html>
- Published by: Accademia, 10 January 2016 - Technology, “Supercontadino 2.0”.
<http://www.academia.bz.it/photos/supercontadino-2-0>
- Sarah Franzosini - Salto.bz, L’app che aiuta i medici, 9.11.2020,
<https://www.salto.bz/de/article/09112020/lapp-che-aiuta-i-medici>
- Arturo Zilli -Unibz.it, 5.11.2020, Monitorare la salute dei pazienti Covid-19 a casa? Si può con reCOVeralD, <https://www.unibz.it/it/news/136719-monitorare-la-salute-dei-pazienti-covid-19-a-casa-si-puo-con-recoveryaid>
- altoadigeinnovazione.it, 16.10.20, <https://www.altoadigeinnovazione.it/e-health-lintelligenza-artificiale-al-servizio-della-sanita-altoatesina-ecco-il-workshop-al-noi/>
- Vanity Fair (sezione Salute) - Simone Cosimi, 6.11.2020, Telemedicina, ecco la piattaforma per aiutare i medici di base ai tempi del Covid, <https://www.vanityfair.it/benessere/salute-e-prevenzione/2020/11/06/covid-telemedicina-piattaforma-aiuto-medici-di-base>
- Vicky Rabensteiner, Accademia, 9.11.2020, Gesundheitsüberwachung von Covid-19-Patienten mit der Applikation reCOVeralD, <https://www.academia.bz.it/articles/gesundheitsueberwachung-von-covid-19-patienten-mit-der-applikation-recoveryaid>
- Redazione 2, Il Fatto Nisseno, 9.11.2020, Covid, reCOVeralD: l’app per monitorare i pazienti a casa, <https://www.ilfattonisseno.it/2020/11/covid-recoveryaid-lapp-per-monitorare-i-pazienti-a-casa/>

- Alberto di Capua, Vivere Senigallia, 16.11.2020, <https://www.viveresenigallia.it/2020/11/17/recoveryaid-una-app-per-monitorare-il-decorso-del-covid-19/857499>
- <https://www.youtube.com/watch?v=YZxeNc2yIpA>
- Arturo Zilli, Science South Tyrol, 5.11.2020, <https://www.sciencesouthtyrol.net/Pages/Details/News.aspx?id=136719&si=UNIBZ&i=UNIBZ&t=2&d=1&s=3&w=5747>
- Sudtiroler Wirtschaftszeitung, Entlastung für Gesundheitssystem durch neue unibz-App 13.11.2020, <https://swz.it/entlastung-fuer-gesundheitssystem-durch-neue-unibz-app/>
- Marco Passarello, Una app per assistere a distanza i malati Covid, 11.11.2020, <https://www.rainews.it/tgr/bolzano/video/2020/11/blz-app-assistenza-distanza-malati-Covid-UniBZ-e44bad92-d471-409e-87cf-d78cef6973ec.html>
- Sudtirol News, 9.11.2020, Gesundheitsüberwachung von Covid-19-Patienten App der Uni Bozen könnte Krankenhäuser entlasten, <https://www.suedtirolnews.it/chronik/app-der-uni-bozen-koennte-krankenhaeuser-entlasten-video>
- Rocco Leo, Corriere dell'Alto Adige, 11.11.2020, I malati a casa monitorati con una app, <https://www.pressreader.com/italy/corriere-dellalto-adige/20201111/281530818549280>
- 16.11.2020, Stol.it, Covid-Patienten aus der Ferne im Blick, <https://www.stol.it/artikel/chronik/covid-patienten-aus-ferne-im-blick>
- 6.11.2020, Informazione.it, <https://www.informazione.it/a/CBC3D893-C919-4E0F-93DD-306ADFEFF3EC/MONITORARE-LA-SALUTE-DEI-PAZIENTI-COVID-19-NON-SERVE-L-OSPEDALE-SE-C-e-RECOVERYAID>
- Agora news, 5.11.2020, <https://www.agoranews.it/monitorare-la-salute-dei-pazienti-covid-19-non-serve-lospedale-se-ce-recoveryaid.html>
- Alto Adige Innovazione, 10.11.2020, L'app per monitorare i pazienti Covid da casa, <https://www.altoadigeinnovazione.it/app-covid/>
- 16.11.2020, Geos news, https://it.geosnews.com/p/it/marche/an/senigallia/recoveryaid-una-app-per-monitorare-il-decorso-del-covid-19_31645943
- 10.11.2020, Video 33, <https://www.video33.it/2020/11/10/pazienti-covid-a-casa-monitorati-da-una-app/>
- 6.11.2020, Rassegna stampa con me - https://www.ospedaliriunitipalermo.it/files/allegati/202011061006260.Rassegna_Stampa_6_novembre_2020.pdf
- Sunshine.it, 9.11.2020, <https://www.sunshine.it/gesundheitsueberwachung-von-covid-19-patienten-applikation-recoveryaid-der-unibz-koennte-krankenhaeuser-entlasten/>
- 17.11.2020, Salto.bz, E l'Asl ignora l'app aiuta medici, <https://www.salto.bz/it/article/17112020/e-lasl-ignora-lapp-aiuta-medici>
- Impresa sanità, 10.11.2020, https://www.impresasanita.it/it/articles/20201108/assistenza_medica_da_remoto_con_recoveryaid
- Nicoletta Cocco, in salute news, 06.11.2020, <https://www.insalutenews.it/in-salute/come-monitorare-la-salute-dei-pazienti-covid-ecco-la-app-che-controlla-da-remoto-il-decorso-dellinfezione/>

- 5.11.2020, Monitorare la salute dei pazienti Covid-19? Non serve l'ospedale se c'è reCOVeraID, <https://www.politicamentecorretto.com/2020/11/05/monitorare-la-salute-dei-pazienti-covid-19-non-serve-l-ospedale-se-ce-recoveryaid/>
- IDW, Gesundheitsüberwachung von Covid-19-Patienten: Applikation reCOVeraID der unibz könnte Krankenhäuser entlasten, <https://idw-online.de/en/image342371>
- Science - Medizin & Biotech, Gesundheitsüberwachung von Covid-19-Patienten: Applikation reCOVeraID der unibz könnte Krankenhäuser entlasten, https://science.apa.at/rubrik/medizin_und_biotech/Gesundheitsueberwachung_von_Covid-19-Patienten_Applikation_reCOVeraID_der_unibz_koennte_Krankenhaeuser_entlasten/SCI_20201109_SCI_39451352257421056
- Progress 21.11.2020 - Parte 4 - Innovaction, SkyTg24, <https://video.sky.it/news/tecnologia/video/progress-21112020-parte-4-innovaction-631050>, Daniela D'Auria, Sanità Digitale - reCOVeraID
- 18.11.2020, #Tecnologia Monitorare la salute dei pazienti Covid-19? Non serve l'ospedale se c'è #reCOVeraID, <https://www.diocesisenigallia.eu/radiogiornale-di-mercoledi-di-18-novembre-2020-6948/>, Radiogiornale di mercoledì di 18 novembre 2020, Radio Duomo - Senigallia
- 5.01.2021, Noi magazine, Covid-19: arriva l'app che aiuta medici e ospedali, <https://noi.bz.it/it/magazine-innovazione/covid-19-arriva-lapp-che-aiuta-medici-e-ospedali>
- 16/01/2021, Monitorare la salute dei pazienti CoViD-19? Non serve l'ospedale se c'è reCOVeraID, Magazine "la Protezione Civile Italia" da pag 78 a pag 80.
- RAI UNO MATTINA, 05/05/2021 <https://www.raiplay.it/video/2021/04/Unomattina-0811a04c-160f-472c-9722-b63f0e272761.html> - reCOVeraID telemedicine application (NOI Techpark, Free University of Bozen-Bolzano)
- 22/12/22, UNIBZ NEWS, <https://www.unibz.it/it/home/newsroom/news/daniela-dauria-awarded-at-the-6th-edition-of-the-ieee-irc>

MEMBERSHIPS

- Chair of the IEEE Technical Committee on Semantic Computing (IEEE TCSEM), since 2022, <https://www.computer.org/communities/technical-committees/tcsem>
- Member of the Editorial Board of the Encyclopedia with Semantic Computing and Robotic Intelligence
- Member of the Editorial board di IJSC (International Journal of Semantic Computing).
- Member of the institute of Electrical and Electronics Engineers (IEEE)
- Member of the IEEE-Robotic and Automation Society (RAS)
- Member of the GIRPR (Gruppo Italiano Ricercatori in Pattern Recognition)
- Member of the "Ordine degli Ingegneri della Provincia di Napoli"
- Member of the "Laboratorio Nazionale Digital Health CINI"

COORDINATION AND/OR PARTICIPATION IN SCIENTIFIC AND INDUSTRIAL RESEARCH PROJECT

reCOVeryalD Project

Title: An intelligent telemonitoring application for symptomatic, asymptomatic and pre-symptomatic coronavirus patients. Objective: Developing an intelligent telemonitoring system, which foresees the use of traditional diagnostic devices, such as a thermometer and a saturimeter, will therefore make it possible to: -Leave at home subjects who are not in imminent danger, thus avoiding occupying hospital beds; -Monitor subjects at risk with possible respiratory crises; -Monitor that part of the population who have not been administered the test for COVID-19, but who may be asymptomatic or pre-symptomatic subjects (such as patients in precautionary quarantine); -Measure the essential parameters, in order to avoid a respiratory crisis for patients affected with COVID-19 in a non-serious form; -Allow General Practitioners (GPs) to keep the patient under constant control, thus avoiding the risk of possible infection due to direct and repeated contact over time.

Funded grant applications

Projects for which I am the principal investigator (PI):

- reCOVeryalD
 - o Role: PI
 - o Performance Period: June 2021 - Nov 2021
 - o Funding: 80K€ from the Italian Ministry (FISR 2020 call) first phase completed; 150k€ from the Italian Ministry for the second phase
 - o Acceptance rate: 2.3 %
 - o Collaborators: Sant'Anna School of Advanced Studies, Pisa, Italy
- reCOVeryalD
 - o Role: PI
 - o Performance Period: June 2021 - Jan 2023
 - o Funding: 10K€ from the Province of Bolzano (RTD 2021 call)
 - o Collaborators: George Mason University, USA

e-HealthNet Project

Title: software ecosystem for eHealth. Duration: 48 months. Starting Date: expected 2013, effective 2015. Grant by Ministero dell'Istruzione, dell'Università e della Ricerca - Fondo Europeo di sviluppo regionale (PON R&C). Funding: 10000 €. I wrote the WP2.6 of this project related to "Simulators for Robot-Assisted Laparoscopic".

Monalisa Project

Title: Duration: 36 months. Starting Date: 2013. Grant by the Autonomous Province of Bolzano / Bozen. Objective: The major goal of the project is the development of multi-scale monitoring approaches for key environmental parameters as well as production processes with the help of innovative monitoring technologies and non-destructive techniques in the application field of agriculture.

OrCHeSTRA Project

Title: ORganization of Cultural HERitage and Smart Tourism and Real-time Accessibility. Duration: 48 months. Starting Date: 2014. Grant by Ministero dell'Istruzione, dell'Università e della Ricerca - Fondo Europeo di sviluppo regionale (PON). Objective: The aim of the project was to provide technological support for smart tourism in Naples.

SARRI Project

Title: The SmARt Rapiro Robot Integrating a framework for the automatic high-level surveillance event detection. Duration: 9 months. Starting Date: 2017. Grant from the Free University of Bozen-Bolzano. Objective: The aim of this project is to integrate a framework for high-level surveillance event detection with a smart robot able to significantly support the overall monitoring process.

PERIODI DI MATERNITA'

- From November 23, 2021 to August 23, 2022.

PRODUZIONE SCIENTIFICA

PUBBLICAZIONI SCIENTIFICHE

International Academic Referred Journals

(Journal publications ranked Q1 according to Scimago are listed in bold.)

2023

[J-13] D. D'Auria, V. Moscato, M. Postiglione, G. Romito, G. Sperlí, Improving graph embeddings via entity linking: A case study on Italian clinical notes, *Intelligent Systems with Applications*, Volume 17, 2023, 200161, ISSN 2667-3053, <https://doi.org/10.1016/j.iswa.2022.200161>.

2022

[J-12] G. Pilato, F. Persia, M. Ge and D. D'Auria, "Social Sensing for Personalized Orienteering Mediating the Need for Sociality and the Risk of COVID-19," in *IEEE Transactions on Technology and Society*, vol. 3, no. 4, pp. 323-332, Dec. 2022, <https://doi.org/10.1109/TTS.2022.3210882>.

2020

[J-11] F. Persia, G. Pilato, M. Ge, P. Bolzoni, D. D'Auria, S. Helmer, Improving orienteering-based tourist trip planning with social sensing, *Future Generation Computer Systems*, Volume 110, 2020, Pages 931-945, ISSN 0167-739X, <https://doi.org/10.1016/j.future.2019.10.028>.

2018

[J-10] D. D'Auria, F. Persia, A Methodology for Improving Vegetation Representation and Health Exploiting a Semantic Robotic System and Its Dynamic Stability Control, *International Journal of Semantic Computing (IJSC)*, 12 (01), 25-41, (2018).

2017

[J-9] R. Russo, D. D'Auria, M. Ciccarelli, G. Della Rotonda, G. D'Elia, B. Siciliano, Triangular block bridge method for surgical treatment of complex proximal humeral fractures: theoretical concept, surgical technique and clinical results, *Injury*, 2017, Volume 48 , S12 - S19.

[J-8] F. Persia, D. D'Auria, High-level surveillance event detection, *Encyclopedia with Semantic Computing and Robotic Intelligence* 2017.

[J-7] D. D'Auria and F. Persia, Use of semantics in robotics - improving doctors' performance using a cricothyrotomy simulator, *Encyclopedia with Semantic Computing and Robotic Intelligence*, 2017.

2016

[J-6] D. D'Auria, G. Ristorto, F. Persia, R. Vidoni and F. Mazzetto, Development and preliminary tests of a Crop Monitoring Mobile Lab based on a combined use of Optical Sensors, *International Journal of Computer & Software Engineering*, 2016.

2015

[J-5] D. D'Auria, D. Di Mauro, D. Calandra, and F. Cutugno, A 3D Audio Augmented Reality System for a Cultural Heritage Management and Fruition, *Journal of Digital Information Management*, 2015.

[J-4] D. Calandra, D. Di Mauro, D. D'Auria, F. Cutugno, E.Y.E.C.U.: an Emotional eYe trackEr for Cultural heritage sUpport, *Empowering Organizations: Enabling Platforms and Artefacts*, Springer, 2015.

[J-3] F. Persia, D. D'Auria, G. Sperli and A. Tufano, A Prototype for Anomaly Detection in Video Surveillance Context Intelligent Software Methodologies, Tools and Techniques, Volume 532 of the series *Communications in Computer and Information Science*, pages 517-528, Springer, September 2015.

[J-2] D.D'Auria and F.Persia, A Framework for Real-Time Evaluation of Medical Doctors' Performances while Using a Cricothyrotomy Simulator, *Communications in Computer and Information Science (CCIS) Series*, Springer-Verlag 2015.

2013

[J-1] L. White, R. Bly, D. D'Auria, N. Aghdasi, P. Bartell, L. Cheng and B.Hannaford, Cricothyrotomy Simulator with Computational Skill Assessment for Procedural Skill Training in the Developing World, *Journal of Otolaryngology - Head & Neck Surgery*, BC, 2013.

Peer Reviewed International Conferences and Workshops with Formal Proceedings

2023

[C-32] F. Persia and D. D'Auria, "Information Retrieval from Facebook for Social Network Analysis", 2023 17th IEEE International Conference on Semantic Computing (ICSC), Laguna Hills, California, USA, 2023.

2022

[C-31] D. D'Auria and F. Persia, "Privacy Protection and Regulatory Aspects in the context of Medical Apps," 2022 Sixth IEEE International Conference on Robotic Computing (IRC), Italy, 2022, pp. 277-280, doi: 10.1109/IRC55401.2022.00053.

[C-30] M. Ge, G. Pilato, F. Persia and D. D'Auria: "New Perspectives on Recommender Systems for Industries", Fifth IEEE International Conference on Artificial Intelligence for Industries (IEEE ai4i 2022), September 19-21, 2022, Laguna Hills, California, USA.

2021

[C-29] F. Persia, S. Costantini, C. Ferri, L. De Lauretis, D. D'Auria, A Smart Framework for Automatically Analyzing Electrocardiograms, 2021 Third International Conference on Transdisciplinary AI (TransAI), virtual.

[C-28] D D'Auria, F Persia, Robots against the Coronavirus: the need for a new generation of robots to help global society, 2021 IEEE 15th International Conference on Semantic Computing (ICSC), virtual.

2020

[C-27] F Persia, D D'Auria, G Pilato, Fast Learning and Prediction of Event Sequences in a Robotic System, 2020 Fourth IEEE International Conference on Robotic Computing (IRC), virtual.

[C-26] JR Barr, D. D'Auria, F. Persia, Telemedicine, Homecare in the Era of COVID-19 & Beyond, 2020 IEEE Third International Conference on Artificial Intelligence for Industries (AI4I)), virtual.

[C-25] F. Persia, D. D'Auria, M. Ge, Improving Learning System Performance with Multimedia Semantics, 2020 IEEE 14th International Conference on Semantic Computing (ICSC), virtual.

[C-24] F. Persia, D. D'Auria, G. Pilato, An Overview of Video Surveillance Approaches, 2020 IEEE 14th International Conference on Semantic Computing (ICSC), virtual.

2019

[C-23] D. D'Auria, F. Persia, F. Bettini, S. Helmer, Predicting and Preventing Dangerous Events via Video Surveillance Using a Robotic Platform, 2019 Third IEEE International Conference on Robotic Computing (IEEE IRC 2019), 549-554, (2019).

2018

[C-22] D. D'Auria, F. Persia, Design of a Framework allowing Researchers to Optimize their Academic Evaluation, In the First IEEE International Conference on Artificial Intelligence for Industries (IEEE ai4i 2018), Laguna Hills, California, September 26-28, 2018.

[C-21] F. Persia, M. Ge, D. D'Auria, How to Exploit Recommender Systems in Social Media. In the 2018 IEEE International Conference on Information Reuse and Integration (IEEE IRI 2018), pp. 537-541, 2018.

[C-20] D. D'Auria, F. Persia, F. Bettini, S. Helmer, B. Siciliano, SARRI: a SmARt Rapiro Robot Integrating a framework for automatic high-level surveillance event detection. In: 2018 Second IEEE International Conference on Robotic Computing (IRC). IEEE, Laguna Hills, USA, 2018.

2017

[C-19] D. D'Auria, F. Persia IEEE IRC 2017, The Role of Semantics in Improving Medical Doctors' Performance, IEEE IRC 2017, Taiwan.

[C-18] D. D'Auria, F. Persia, A collaborative robotic cyber physical system for surgery applications, IEEE Information Reuse and Integration (IRI) 2017, San Diego, USA.

[C-17] D. D'Auria and F. Persia, A Methodology for Improving Vegetation Representation and Health exploiting a Semantic Robotic System, 2017 IEEE 11th International Conference on Semantic Computing, San Diego, USA

[C-16] F. Persia, D. D'Auria, A Survey of Online Social Networks: Challenges and Opportunities, IEEE Information Reuse and Integration (IRI), San Diego, USA, 2017.

2016

[C-15] M. Bietresato, G. Carabin, D. D'Auria, R. Gallo, G. Ristorto, F. Mazzetto, R. Vidoni, A. Gasparetto and L. Scalera, A tracked mobile robotic lab for monitoring the plants volume and health, MESA 2016 - 12th IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, Auckland, New Zealand, Aug 2016.

[C-14] D. D'Auria, G. Ristorto, R. Gallo and F. Mazzetto, Tracked robot over a slope path: Dynamic stability control, 2016 IEEE IRI 2016, Pittsburgh, USA, July 2016.

[C-13] D. D'Auria, G. Ristorto and F. Mazzetto, Development and Preliminary Test of a Mobile Lab for the orchard crop monitoring, MECHTECH 2016 Conference, Alghero, Italy, May 2016.

[C-12] D. D'Auria, F. Persia, B. Siciliano, Human-computer interaction in healthcare: How to support patients during their wrist rehabilitation, 2016 IEEE International Conference on Semantic Computing, Laguna Hills, CA, Feb. 2016.

2015

[C-11] D. D'Auria, F. Persia, B. Siciliano, A Low-Cost Haptic System for Wrist Rehabilitation, IEEE IRI 2015, San Francisco, USA, August 13-15, 2015.

[C-10] D. D'Auria, F. Persia, A Distributed Framework for Event Detection in Video Surveillance Context, 3rd International Workshop on Cloud and Distributed System Applications, Poland, Nov. 2015.

[C-9] F. Persia, D. D'Auria, G. Sperli, and A. Tufano, A Prototype for Anomaly Detection in Video Surveillance Context, SoMeT 2015, Naples, Italy.

2014

[C-8] D. Calandra, D. Di Mauro, D. D'Auria, F. Cutugno, E.Y.E.C.U.: an Emotional eYe trackEr for Cultural heritage sUpport, ItAIS 2014, Genova, Italy, Nov. 2014.

[C-7] D. D'Auria, D. Di Mauro, D. Calandra, and F. Cutugno, Interactive Headphones for a Cloud 3D Audio Application, 3PGCIC, Guangzhou, China, Nov. 2014.

[C-6] F. Persia and D. D'Auria, An application for finding expected activities in medical context scientific databases, SEBD, Sorrento Coast, IT, June 2014.

[C-5] D. D'Auria, D. Di Mauro, D. Calandra, and F. Cutugno, Caruso: Interactive Headphones for a Dynamic 3D Audio Application in the Cultural Heritage Context, IEEE IRI, San Francisco, CA, Aug. 2014.

[C-4] F. Persia and D. D'Auria, Automatic Evaluation of Medical Doctors' Performances while Using a Cricothyrotomy Simulator, IEEE IRI, San Francisco, CA, Aug. 2014.

[C-3] F. Barile, D. Calandra, A. Caso, D. D' Auria, D. Di Mauro, F. Cutugno, S. Rossi, ICT solutions for the OR. C. HE. STRA project: from personalized selection to enhanced fruition of cultural heritage data, The 10th International Conference on Signal Image Technology & Internet Systems, 2014, Marocco.

[C-2] D. D'Auria, F. Persia, Discovering expected activities in medical context scientific databases, Proceedings of 3rd International Conference on Data Management Technologies and Applications, DATA 2014, Vienna.

2012

[C-1] L. White, D. D'Auria, R. Bly, P. Bartell, N. Aghdasi, C. Jones, B. Hannaford, Cricothyrotomy Simulator Training for the Developing Word, GHTC 2012, Seattle, WA, Oct. 2012.

Theses

[T-1] D. D'Auria, Design and Development of a Robotic Surgery Device and a Medical Simulator, PhD Thesis, Dipartimento di Ingegneria Elettrica e Tecnologie dell'Informazione (DIETI), Università degli studi di Napoli "Federico II", 2013.

COMPETENZE LINGUISTICHE

- Italian (Mother Tongue)
- English: B2
- French: B2
- German: A1

Data

26/02/2023

Luogo

Bolzano