Curriculum Vitae et Studiorum - Prof. Emanuele Menegatti, 13/10/1973

Educational background: He graduated in Physics (1998) at Univ. of Padova, he got a Master of Science in Robotics and Artificial Intelligence at the Univ. of Edinburgh (UK) (2000) and a Ph. D. in Computer Science (2003) at Univ. of Padova.

Relevant Employment: Emanuele Menegatti is Full Professor of Computer Science in the School of Engineering of University of Padova, since 2017 (Associated Professor in 2010, Assistant Professor in 2005).

Research topics: Menegatti's research interests are in the field of Robot Perception. In particular, he has been working on omnidirectional vision systems for autonomous robots, on distributed vision systems, on humanoid robot perception, on 2D and 3D industrial robot vision and automatic visual inspection, and on RGB-D vision algorithms for mobile robots. Lately, he is working on neurorobotics.

Teaching: Currently, Menegatti is teaching the course "Autonomous Robotics" in the Msc in Computer Science Eng. and the course "Computer Architecture" in the Bsc in Information Engineering. He founded and teaches the lifelong learning course on "*Educational Robotics for teachers*" of the University of Padova, which formed more than 130 in service schoolteachers in 5 years. In the past, Menegatti taught "3D Data Processing" in the Msc in Computer Science Eng. and "Logic Circuits and Systems" in the Bsc in Information Eng.

Menegatti was **co-supervisor of 2 Japanese Ph.D. students, supervisor of 10 Ph.D. students**, 9 post-docs, and 50+ master thesis and 15+ bachelor thesis. He has been teaching several training courses and technological upgrading courses in artificial vision and computer science in private companies and private training centers in the North-Est of Italy. F**rom 2000 to 2006,** he was involved in **the RoboCup competitions**, supervising the team of the University of Padua and serving as **Technical Committee Member** of the **Humanoid League of RoboCup.**

International links: In 2002, he was Visiting Researcher at the Univ. of Wakayama (JP), in 2004 at the Georgia Institute of Technology (US) and again in Japan at the Univ. of Osaka (JP).
Menegatti is responsible of the Memorandum Of Understanding with the oldest University in South Corea: "Sungkyunkwan University" of Seul together with prof. Sukhan Lee. **Since 2015, he is Visiting Professor** (Kyakuin Kyoju) of Toyohashi University of Technology, Japan.

Research Coordination:
Menegatti was **European Coordinator** of the FP7 FoF-EU project "**Thermobot**" (3 years project, 3.5M€ TOT, 515K€ for UNIPD).
He is local principal investigator for:

- The H2020 Erasmus+ Project: "**ENGINE"** (2 years project, 33k€ for UNIPD)
- The H2020 ICT Project: "**SPIRIT"** (3 years project, 485k€ for UNIPD)
- The H2020 ICT Project: "**eCraft2Learn"** (2 years project, 120k€ for UNIPD)
- the FP7 Research for SME-EU Project "**3DComplete**" (2 years project, 240k€ for UNIPD)
- the FP7 FoF-EU project "**FibreMap**" (3 years project, 500k€ for UNIPD)
- the H2020-FoF-2014 project "**FOCUS**" (a 2 years coord. and support action, 22k€ for UNIPD)
- FEASR – Fondo Europeo Agricolo per lo sviluppo rurale "**Dodich**" (2 years, 47k€ for UNIPD)
- 2 years *"Progetto di Ateneo"* from the Univ. of Padua on: "*Educational robotics as a validated mindtool (ERASM)".*
- 2 years *"Assegno Junior"* from University of Padua: "*DVL-SLAM: Dense Visual and Laser SLAM*".
- 2 years *"Progetto di Ateneo"* from the Univ. of Padua on: *"Integration of Wireless Sensor Networks and Autonomous Robots*" (with prof. M. Zorzi).
- young investigator grant from the Univ. of Padua on: "Bio-inspired omnidirectional vision".

Menegatti also served as Project Reviewer for the European Commission in FP7 and H2020.

Industrial Contracts at DEI:
Menegatti was the principal investigator of the following industrial contracts:

- **O-robot srl "Analysis of AI cloud services"** (1 year, 18k€)
- **Omitech srl, "Prototype for a telepresence robot"** (1 year, 90k€, 1 year, 12k€)
- **Ethics OdG,** "Study on exoskeleton applications" (1 year, 24k€)
- **Microtec srl**, "Test on metrology application of Microsoft Kinect Sensor" (1 year, 12k€)
- **Gnoato srl,** "Test on visual inspection for fabrics" (6 months, 6k€)
- **Dog's Life srl**, "Tests on humanoid robots in film making" (3 months, 3k€)

Overall, Menegatti was coordinating research projects for about 2M€ in the last five years.

Technology Transfer: In 2005, Menegatti was **founding partner of IT+Robotics srl**, a successful spin-off company participated by the Univ. of Padova, active in the field of intelligent industrial robotics (robot simulation for off-line programming and robot vision for quality inspection).

In 2014, Menegatti was **founding partner of EXiMotion srl**, a start-up company of the IAS-Lab, active in the field of rehabilitation robotics and educational robotics.

Menegatti was a **member of the Scientific Board** of "Consortium Ethics" a nonprofit Research Organization in Abano Terme (PD).

Scientific Editorial Activities:

Menegatti was **General Chair** of the 13th Intl. Conf. on Intelligent Autonomous Systems (IAS-13, Padova, Italy) with more than 350 participants in conference and workshops.

He is **Associate Editors** of the Elsevier Journal **"Robots and Autonomous Systems"**.

He is **Associate Editor** of Springer Journal **"IPSJ Transactions on Computer Vision and Applications"**.

He is **Associate Editor** of **"Frontiers in Neurorobotics"**.

He is **Associate Editor** of Sage Journal **"International Journal of Advanced Robotic Systems**".

He is **Associate Editor** of MDPI journal **"Sensors"** since 2021.

He has served as **Associated Editor** for IEEE **ICRA** Conference and IEEE **IROS** Conference and **IJCAI** Conference.

He was **Program Chair** for IAS-12 (Korea), IAS-14 (China), IAS-15 (DE), I-RIM 2020 (IT), ECMR 2021 (DE).

He was **Workshop Chair** for SIMPAR Conference. He was **Program Committee member** for the major conferences in robotics (50+). Moreover, he chaired several workshops (10+).

He is **scientific secretary of** the international Intelligent Autonomous Systems Society (IAS-Soc).

He is member of the IFAC Technical Committee Robotics and Vice Chair for Education.

He was **Award Committee Member** of **2016 IEEE RAS-I** Young Author Best Paper Award.

He was **Chair** of the *Gruppo di Lavoro Robotica* of the *Ass. Italiana per l'Intelligenza. Artificiale*.

He was a **member of the Scientific Board** of the scientific association Gifted and Talented Education G.A.T.E. Italy for education of gifted children and their families.

Menegatti was **guest editor for five special issues** of the journal Robotics and Autonomous Systems of Elsevier and for a **special issue** on "Robot Perception for Manufacturing" in the International Journal of Advanced Robotic Systems.

Awards & Distinctions:

Menegatti was **invited speaker** for:

- "Workshop on Cooperative Systems", Dubrovnik, 2014
- "Tag der Hochschuldidaktik der Informatik", Baden- Karlsruhe University, 2014.
- "Congress of Italian Society of Clinical Movement Analysis", Padova, 2015
- "AIRO 2015, Italian Workshop on Artificial Intelligence and Robotics", Ferrara, 2015
- Workshop on "Robot Perception of Humans", Baden-Baden, Germany, 2018
- INBOTS Conference "Highly-accessible and multidisciplinary education tools in robotics", Pisa 2018
- 17th Colloquio "Abitare il Futuro", Monastero di Camaldoli, 2018
- convegno 'Esercito Motore Tecnologico e Innovazione', Centro Alti Studi per la Difesa, Roma 2019
- convegno Artificial Intelligence Forum Live 2020.

*Menegatti got **best paper awards** at:*

- *IEEE SMC 10th Workshop on Brain-Machine Interface (BMI) Systems 2020*
- *IEEE International Conference on Emerging Technologies and Factory Automation, ETFA 2020*
- *IEEE International Symposium on Robotic and Sensors Environments (ROSE 2012)*
- *IEEE Globecom Workshops. Miami, Florida, USA, Dec. 2010,*

Menegatti was with the winning teams at:

- 2020 winner (Gold Medal) of the Brain-Computer Interface Race at the Cybathlon 2020 Global Edition,
- 2019 winner (Gold Medal) of Cybathlon BCI Series 2019 in Graz (Austria),
- 2014, **"Best team in Robot Perception"** at RockIn Camp 2014
- 2013, Team EXiM: winner of 1st price in StartCup Veneto,top 5 projects in ICT for Premio Nazionale Innovazione 2013, selected as the ICT project presented at Wall Street for ItaliaCamp
- *2004. **RoboCup**: TeamOsaka (JP) winner of Humanoid robot League and Luis-Vuitton Cup.*
- *2004, Team GenSys winner of the first stage of StartCup Veneto*

Curriculum Vitae et Studiorum - Prof. Emanuele Menegatti, 13/10/1973

Menegatti published more than **50 journal papers**, more than **150 conference papers**, **3 books**, **4 book chapters**, and **two patents**.

In November 2021, the **bibliometric indicators** according to Google Scholar and Scopus (in brackets) databases:
Emanuele Menegatti (UNIPD)
Current number of citations = 4751 (2254); since 2016 = 2584 (1450).
Current H-index = 32 (23); since 2016 = 24 (10).
Current number of publications = 310 (187); since 2016 = 95 (78).

Padua, 15-11-2021   In faith,

                                                                        Prof. Emanuele Menegatti