Mirco Colosi

Curriculum Vitae

Stuttgart, Germany

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Education and Qualifications

Oct 2017-	Ph.D. in	Engineering	in	Computer	Science

exp. Nov Sapienza University of Rome, Rome, Italy &

2020 Robert Bosch Corporate Research, department of Mapping, Localization and Navigation (CR/AAS3), Renningen, Germany

Research Field: SLAM, Mobile Robotics, Life Long SLAM

Advisor: Prof. Dr. Giorgio Grisetti, Prof. Dr. Kai Oliver Arras

Sep 2014- Master of Science in Engineering in Artificial Intelligence and Robotics

Jul 2017 Sapienza University of Rome, Rome, Italy

GPA - 110/110

Sep 2010- Bachelor of Science in Computer Engineering

Mar 2014 University of Catania, Catania, Italy GPA - 102/110

Publications

2020 Plug-and-Play SLAM: A Unified SLAM Architecture for Modularity and Ease of Use

Arxiv

M. Colosi, I. Aloise, T. Guadagnino, D. Schlegel, B. Della Corte, K.O. Arras and G. Grisetti

DOI: arXiv:2003.00754v2 [cs.RO]

2019 Better Lost in Transition Than Lost in Space: SLAM State Machine

IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) M. Colosi, S. Haug, P. Biber, K.O. Arras and G. Grisetti

DOI: 10.1109/IROS40897.2019.8968182

2018 ProSLAM: Graph SLAM from a Programmer's Perspective

IEEE International Conference on Robotics and Automation (ICRA)

D. Schlegel, M. Colosi and G. Grisetti,

DOI: 10.1109/ICRA.2018.8461180

2017 Bridging Between Computer and Robot Vision Through Data Augmentation: A Case Study on Object Recognition

IEEE International Conference on Computer Vision (ICCV)

A. D'Innocente, F.M. Carlucci, M. Colosi and B. Caputo

DOI: 10.1007/978-3-319-68345-4_34

Teaching Activities

2017/2018 Tutor of Laboratorio di Intelligenza e Grafica Interattiva, Sapienza University of Rome, Rome.

Proff. Daniele Nardi, Roberto Capobianco

2017/2018 Tutor of Tecniche di Programmazione, Sapienza University of Rome, Rome. Proff. Daniele Nardi, Luca Iocchi, Alberto Pretto

Other Scientific Activities

Reviewer

Conferences RA-L IROS 2020, IROS 2020, RA-L ICRA 2019, ICRA 2019, IAS 15, AAMAS 2019, RSS 2019, IJCAI 2019, IROS 2019, AURO 2019

Personal Projects

2017 Development of DASciS software for Bone scan index computation in scintigraphic images, Sapienza University of Rome, Research Project, Dr. Viviana Frantellizzi.

DOI: 10.2478/raon-2019-0058

- 2017 Gesture recognition for Human-Robot Interaction, Sapienza University of Rome, Exam Project, Prof. Luca locchi.
- 2016 Development of a Simulation Environment for Teleoperated Surgical Task, Sapienza University of Rome, Exam Project, Prof. Alessandro De Luca, Prof. Marilena Vendittelli.
- 2015 Implementation of feedback controllers for unicycle robots, Sapienza University of Rome, Exam Project, Prof. Giuseppe Oriolo.
- 2015 A Third Person Game Based on the Three.js Library, Sapienza University of Rome, Exam Project, Prof. Marco Schaerf.

Skills

Computing and Robotics

- Solid C, C++ coding experience
- o Good knowledge of Python, Bash, Java, OpenGL, MATLAB;
- Strong knowledge of robotics and computer vision libraries and tools: ROS, OpenCV;
- Experience with DevOps tools: Gitlab CI/CD, Docker, Jenkins;
- Daily use of version control software: Git;
- Daily use of Unix/Linux, Windows, MacOS;
- Good experience with Eclipse, LATEX, Microsoft Office, LibreOffice;

- Good experience in developing mobile multi-robotics applications under ROS environment
- Hands-on and theoretical machine learning experience;

Teamwork

- Currently working at Robert Bosch Research Campus in Renningen, Germany, in the department of Mapping, Localization and Navigation (CR/AAS3) under the supervision of Dr. Alexander Kleiner, Dr. Peter Biber, and Prof. Dr. Kai Oliver Arras as Ph.D. student;
- Member of Prof. Dr. Daniele Nardi's research laboratory *Ro.Co.Co.* under the supervision of Prof. Dr. Giorgio Grisetti as a Ph.D. student;
- Good ability to adapt to multicultural environments and to live in different countries.

Languages

Italian Mother tongue

English Advanced Certification 2014: TOEFL(B2)

German Beginner

Interests

Professional

SLAM, Sensor Calibration, Mobile Robotics, Autonomous Robotics, Robot Navigation and Control, Computer Vision, Machine Learning, Deep Learning

Personal

Music, Cinema, Video-games, Technology, Cooking

References

Prof. Dr. Giorgio Grisetti

Associate professor at Sapienza University of Rome

Department of Computer, Control, and Management Engineering
Sapienza University of Rome
Via Ariosto 25, 00185, Rome, Italy

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Prof. Dr. Kai O. Arras

Head of Robotics Program and Chief Expert Robotics

Robert Bosch Corporate Research
Robert-Bosch-Campus 1, 71272, Renningen, Germany

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Prof. Dr. Luca locchi

Full professor at Sapienza University of Rome

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