

**Mail**

ialoise@diag.uniroma1.it

Personal Site

<https://istinj.github.io>

LinkedIn

<https://goo.gl/NQvHbJ>

Birthday

May 21, 1991

Irvin Aloise

Ph.D. Candidate in Engineering in Computer Science

Education

2017 - Oct 2020 (expected), Sapienza University of Rome

Ph.D. in Engineering in Computer Science

Research Topics: Mobile Robotics, Simultaneous Localization and Mapping, Graph Optimization.

Advisor: *Prof. Dr. Giorgio Grisetti*.

2019 - 2020, Rheinische Friedrich-Wilhelms-Universität of Bonn

Visiting Ph.D. Student

September 2019 - February 2020.

Research Topics: 3D-Lidar SLAM, Sensor Calibration.

Supervisor: *Prof. Dr. Cyrill Stachniss*.

2014 - 2017, Sapienza University of Rome

M.Sc. in Artificial Intelligence and Robotics (in English)

Thesis title: *Extended Measurements in Pose-Graph Optimization*.

Supervisor: *Prof. Dr. Giorgio Grisetti* and *Dominik Schlegel*.

Final grade: First Class with Honors (¹¹⁰/₁₁₀ cum laude).

2010 - 2014, Sapienza University of Rome

B.Sc. in Electronic Engineering (in Italian)

Supervisor: *Prof. Giuseppe Oriolo*

Publications

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

IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2020

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

To Appear in Conference Proceedings.

Least Squares Optimization: From Theory to Practice

MDPI: Robotics, 2020

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

DOI: 10.3390/robotics9030051

Chordal Based Error Function for 3D Pose-Graph Optimization

IEEE Robotics and Automation Letters (RA-L), 2019

I. Aloise and G. Grisetti

DOI: 10.1109/LRA.2019.2956456

Systematic Handling of Heterogeneous Geometric Primitives in Graph-SLAM Optimization

IEEE Robotics and Automation Letters (RA-L), 2019

I. Aloise, B. Della Corte, F. Nardi and G. Grisetti

DOI: 10.1109/LRA.2019.2918054



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Teaching Activities

September 2019 - June 2020, Sapienza University of Rome

Teaching Assistant of Operating Systems - *Sistemi Operativi*

Course held by Prof. G. Grisetti, B.Sc. in Engineering in Computer Science, 6 ECTS credits.

September 2018 - June 2019, Sapienza University of Rome

Teaching Assistant of Operating Systems - *Sistemi Operativi*

Course held by Prof. G. Grisetti, B.Sc. in Engineering in Computer Science, 6 ECTS credits.

November 2017 - June 2018, Sapienza University of Rome

Teaching Assistant of Operating Systems - *Sistemi Operativi*

Course held by Prof. G. Grisetti, B.Sc. in Engineering in Computer Science, 6 ECTS credits.

Languages

Italian

Mother-tongue

English

Advanced

Skills

Programming

C++, C, Octave, Matlab, Python, OpenGL and ImGui.

Operating Systems

Ubuntu, Windows, MacOS

Interests

Professional

Mobile Robotics, SLAM, Sensor Calibration, Computer Vision, Autonomous Robotics, Machine Learning

Personal

Music, Cinema, Video-games, Technology, Photography, Motor Sports

Personal Projects

2019, Rheinische Friedrich-Wilhelms-Universität of Bonn

Extrinsic Calibration between 3D-Lidar and Monocular Camera

2016, Sapienza University of Rome, Exam project

Development of a Simulation Environment for Teleoperated Surgical Tasks

2016, Sapienza University of Rome, Exam project

Analyzing Visualization Techniques for Convolutional Neural Networks

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References

Prof. Dr. Giorgio Grisetti

Associate professor at
Sapienza University of Rome

Dept. of Computer, Control, and
Management Engineering

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Prof. Dr. Cyrill Stachniss

Full professor at the University
of Bonn

Head of the lab for Photogram-
metry and Robotics

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Irvin Aloise