

**Mail**

ialoise@diag.uniroma1.it

Personal Site

<https://istinj.github.io>

LinkedIn

<https://goo.gl/NQvHbJ>

Birthday

May 21, 1991

Irvin Aloise

Ph.D. Student in Engineering in Computer Science

Education

2017 - now, Sapienza University of Rome

Ph.D. in Engineering in Computer Science

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

Advisor: *Prof. Giorgio Grisetti*.

2014 - 2017, Sapienza University of Rome

Master of Science in Artificial Intelligence and Robotics (in English)

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

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

Final grade: First Class with Honors ($^{110}/_{110}$ cum laude).

2010 - 2014, Sapienza University of Rome

Bachelor of Science in Electronic Engineering (in Italian)

Thesis title: *L'uso del Capture Point nello studio della reazione alle spinte nei robot umanoidi*.

Supervisor: *Prof. Giuseppe Oriolo*

Final grade: $^{100}/_{110}$

Publications

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

Matrix Difference in Pose-Graph Optimization

ArXiv, 2018

I. Aloise and G. Grisetti

arXiv:1809.00952 [cs.RO]

Teaching Activities

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.

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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, Computer Vision, Autonomous Robotics, Machine Learning

Personal

Music, Photography, Cinema, Technology, Motor Sports

Personal Projects

2016, Sapienza University of Rome, Exam project

Development of a Simulation Environment for Teleoperated Surgical Task

2016, Sapienza University of Rome, Exam project

Analyzing Visualization Techniques for Convolutional Neural Networks

2015, Sapienza University of Rome, Exam project

A Third-Person Game Based on the `Three.js` Library