

**Mail** ialoise@diag.uniroma1.it

# **Personal Site** https://istinj.github.io

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#### 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 Map-

ping, 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, <u>I. Aloise</u>, 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, <u>I. Aloise</u>, 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 Univesity 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 Neworks** 



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## References

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Sapienza University of Rome
Dept. of Computer, Control, and
Management Engineering
Via Ariosto 25, 00185, Rome, Italy
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# **Prof. Dr. Cyrill Stachniss**Full professor at the University of Bonn

Head of the lab for Photogrammetry and Robotics

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