

**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 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)

 $The sis\ title:\ \textit{Extended Measurements in Pose-Graph\ Optimization}.$ 

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**

**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

<u>I. Aloise</u> and G. Grisetti arXiv:1809.00952 [cs.RO]



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## **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.

## 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

2015, Sapienza University of Rome, Exam project

A Third-Person Game Based on the Three. is Library



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# References

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Associate professor at
Sapienza University of Rome
Dept. of Computer, Control, and
Management Engineering
Via Ariosto 25, 00185, Rome, Italy
Mail: grisetti@diag.uniroma1.it

# **Prof. Dr. Cyrill Stachniss**Full professor at the University of Bonn

Head of the lab for Photogrammetry and Robotics

Nussallee 15, 53115, Bonn, Germany Mail: cyrill.stachniss@igg.uni-bonn.de

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