

# Assignment 2

## Background Bibliography

This assignment aims to familiarize you with the task of collecting background bibliography for a research topic. You can work alone or in a team, selecting one of the topics suggested or you can propose a new topic.

| Group # | Theme                                | Team/Person |
|---------|--------------------------------------|-------------|
| 1       | Wreck Mapping                        |             |
| 2       | Formation Path Planning              |             |
| 3       | Cooperative Localization (Team)      |             |
| 4       | Multi-Robot Coverage                 |             |
| 5       | Multi-Robot Exploration              |             |
| 6       | Mapping U/W Structures               |             |
| 7       | Range mapping using SONAR underwater |             |
| 8       | Shape from structured light          |             |
| 9       | Uses of $g^2o$                       |             |
| 10      | 3D Surface Reconstruction            | Nick        |

### Deliverables:

- A bibtex file with bibtex entries for all the papers you selected. In each entry provide a abstract field, and a url field which will contain a link to the pdf of the paper.
- A written report summarizing the related work, with proper citations.

See for example the coverage survey paper:

<http://www.sciencedirect.com/science/article/pii/S092188901300167X>

## Advices on bibliography search:

- Start with a search: [Google Scholar](#), [IEEE Xplore](#), Google.
- Select relevant papers and add them to your reference set  $\mathcal{S}$ .
- For each paper  $P$  in  $\mathcal{S}$ 
  - Look all the references; select relevant papers and add to  $\mathcal{S}$
  - Go to Google Scholar; find all relevant papers that cite  $P$ ; add them to  $\mathcal{S}$ .
  - If out of time trim  $\mathcal{S}$ .
- Most research work is published first as a conference then as a journal paper. Sometimes, there is a workshop paper that precedes the conference and/or journal. Group them together then cite the journal paper.
- When needing to trim the set of papers, first remove conference papers for which there is a journal, consider relevance, then use reputation:
  - Reputation of the venue, conferences: ICRA, IROS, RSS, ISRR, ISER, DARS, WAFR; ICCV, CVPR, ICIP, BMVC, CRV, etc.
  - Reputation of the research group. Are they known for their work in the specific field?
- Use latex and bibtex format.