

Bonus Assignment

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	Person
1	Wreck Mapping	
2	Mapping U/W Structures	
3	VIO mapping of lines	
4	Underwater Acoustic Communications	
5	Range mapping using SONAR underwater	
6	3D Surface Reconstruction	
7	Deep Learning VIO/VSLAM	
8	Detecting rail-lines	
9	Nerfs	
10	State Estimation during Space Flight	

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>

Advice 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 cited 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, ICIIP, BMVC, CRV, etc.
 - Reputation of the research group. Are they known for their work in the specific field?
- Use latex and bibtex format.