

**School of Computer Science  
University of Birmingham**

**Intelligent Robotics 06-13520  
Intelligent Robotics (Extended) 06-15267  
Report Writing, Some Tips.**

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1. Please use the IEEE transactions style template for your report:  
<https://ieeeauthorcenter.ieee.org/create-your-ieee-article/use-authoring-tools-and-ieee-article-templates/ieee-article-templates/templates-for-transactions/>
2. Since you are using the template specified above, your report is expected to follow the format of a typical paper published in these transactions. Your report will thus be expected to have sections describing the abstract, introduction, related work, algorithms and framework, experimental results, and conclusions.
3. Please do not include code snippets in the project report; you can include a link to the software repository. You should, however, describe the algorithms at sufficient detail for a knowledgeable reader to reproduce your implementation and results. You can use a pseudo-code (or algorithm) style for writing down the algorithms formally, which also requires that you describe the associated equations, parameters, initial conditions, etc correctly.
4. Please make sure that you provide both a formal description and a qualitative textual description for the algorithms. Wherever possible, describe the properties of these algorithms such as complexity, obvious failing cases, convergence, run time etc. Please make sure the formal description of each algorithm is given on one page, and numbered suitably.
5. Please read through your report carefully and use a spell checker on your report. Avoid simple errors such as mixing up words or missing out words from sentences, and be careful in your use of articles and commas.
6. Use a good English style manual, e.g., Strunk and White, Fowler's Modern English Usage, and the Chicago Style Manual. Understand correct punctuation. See Larry Trask's excellent guide at:  
<http://www.sussex.ac.uk/informatics/punctuation/>
7. Number your figures. Include informative captions. Make sure **all** graphs have axes labelled with meaningful names and units. Reference documents correctly. You can find local information on referencing at  
<http://www.cs.bham.ac.uk/~pxc/refs/index.html> , and <http://www.i-cite.bham.ac.uk/>
8. Please think carefully about the hypotheses you evaluate experimentally. Experimental hypotheses are strongly related to the objectives and expected

benefits of your choices (e.g., regarding algorithms to implement). This separation between observation and interpretation is a fundamental to experimental science. Remember to describe the parameters for all experiments.

9. If you design a website for your project, please keep it clean and simple. Movies and pictures of your robots are good, but please do not include flash demos, vibrant pages, gothic fonts etc. White background with black text is fine. You are providing supplementary material, so please do not reproduce your report.