**COST ESTIMATING RESOURCES**

**(ref:** <http://herdingcats.typepad.com/my_weblog/estimating/>**)**

Professional organizations for cost estimating

1. [International Cost Estimating and Analysis Association](https://www.iceaaonline.org/index.cfm)
2. [Association for the Advancement of Cost Engineering](https://www.aacei.org/)
3. [NASA Cost Analysis Division](http://www.nasa.gov/offices/pae/organization/cost_analysis_division.html%22%20%5Ct%20%22_self) and an example of their work in [*productivity studies*](http://www.gwu.edu/~spi/assets/docs/Productivity.pdf).
4. [DOE Cost Estimating Guide](https://www.directives.doe.gov/directives/0413.3-EGuide-21/view%22%20%5Ct%20%22_self)
5. [Cost Assessment and Program Evaluation](http://www.cape.osd.mil/)

Ignoring for the moment the problems with the logic of ignoring the needs of those providing us money, here's some places to start in the domain where estimating is the basis of good project management

1. [Software Cost Estimating](http://softwarecost.org/index.php?title=Main_Page) site as University of Southern California (one of my alma mater's). Start with this site and then visit the [Center for Systems and Software](http://sunset.usc.edu/new/index.php).
2. [GAO Cost Estimating and Assessment Guide](http://www.gao.gov/new.items/d093sp.pdf)
3. [2008 NASA Cost Estimating Handbook](http://www.nasa.gov/pdf/263676main_2008-NASA-Cost-Handbook-FINAL_v6.pdf). There is a 2013 coming soon?
4. [Application of Selected Software Cost Estimating Models to a Tactical Communications Switching System: Tentative Analysis of Model Applicability to an Ongoing Development Program](https://ia600805.us.archive.org/25/items/applicationofsel00coll/applicationofsel00coll.pdf)
5. [Pragmatic Quality Metrics for Evolutionary Software Development Models](https://ia600501.us.archive.org/20/items/nasa_techdoc_19920010185/19920010185.pdf), Walker Royce
6. [Review and Analysis of Statistical Cost Estimating Relationships](https://ia601200.us.archive.org/17/items/reviewanalysisof00cart/reviewanalysisof00cart.pdf), Marshall Carter, Naval Post Graduate School.
7. [JPL's Cost estimating](http://trs-new.jpl.nasa.gov/dspace/bitstream/2014/42109/1/11-1470.pdf) processes for software intensive systems, with emerging requirements, iterative development, and fixed delivery dates and fixed budgets. You can fly to Mars in a 3 week window every 3 years.
8. [JPL's Cost Estimating Handbook](http://www.interlabs.bradley.edu/uskov/CS591/Topic_12/Handbook_SW_Cost_Estimates.pdf)
9. [Software Cost Estimating](http://ifs.host.cs.st-andrews.ac.uk/Books/SE7/SampleChapters/ch26.pdf), [Software Engineering](http://www.amazon.co.uk/Software-Engineering-Ian-Sommerville/dp/0137035152/ref%3Dsr_1_5?ie=UTF8&s=books&qid=1272579750&sr=8-5) 7th Edition,
10. [Software Cost Estimating](https://learn.dau.mil/CourseWare/804019_5/media/BCF106_L9_Software.pdf), DAU BCF 106 course
11. [Software cost estimating problems at JPL](http://www.itu.dk/people/mpo/02-1016.pdf)
12. [Validation of Spacecraft Cost estimation Models](http://trs-new.jpl.nasa.gov/dspace/bitstream/2014/11968/1/02-0706.pdf), since domain is king, speaking about estimating in the absence of a domain is pretty much useless, here's a domain specific study of the effectiveness of cost estimating.
13. [Software Cost Estimating](http://en.wikipedia.org/wiki/Software_development_effort_estimation) resource page
14. [Software Development Cost Estimating Handbook](http://atrc.net.pk/resources/software_development/sw_cost_manual.pdf), Naval Center for Cost Analysis and Air Force Cost Analysis Center
15. RIT's [Cost Estimating 1](http://www.se.rit.edu/~emad/teaching/slides/CISC322_19_CostEstimation_nov21.pdf) and [Cost Estimating 2](http://www.se.rit.edu/~emad/teaching/slides/CISC322_20_CostEstimation_nov23.pdf) [class](http://www.se.rit.edu/~emad/teaching/slides/)
16. [Software Cost Estimating and Sizing Methods](http://www.rand.org/content/dam/rand/pubs/monographs/2005/RAND_MG269.pdf), RAND
17. [Emperical Validation of Software Cost Estimating Models](http://www.lyee-project.soft.iwate-pu.ac.jp/en/workplan/KB/Library/CostandEffortReferenceModels/Documents/Papers/K87.pdf)
18. [Cost Estimation Methods for Software Engineering](https://ujdigispace.uj.ac.za/bitstream/handle/10210/4500/Ladeira.pdf?sequence=3)
19. [UKHEC Report on Software Estimation](http://www.cs.stevens.edu/~lbernste/papers/estimation.pdf)
20. [Improved Size and Effort Estimates for Software Maintenance](http://csse.usc.edu/csse/TECHRPTS/PhD_Dissertations/files/Nguyen_Dissertation.pdf)
21. [Cognitive Limits of Software Cost Estimation](http://web.mit.edu/rvalerdi/www/valerdi-CognitiveLimits.pdf)
22. [Software Cost Estimation Review](http://theseus.fi/bitstream/handle/10024/61273/Ongere_Alphonce.pdf?sequence=1)
23. [Technical Reports Site for the Center Systems and Software Engineering](http://csse.usc.edu/csse/TECHRPTS/)
24. [Accurate Estimates without Local Data](http://csse.usc.edu/csse/TECHRPTS/2009/usc-csse-2009-531/usc-csse-2009-531.pdf)
25. [Software Intensive Systems Data Quality and Estimation](http://sercuarc.org/uploads/files/TR%20032_RT%206_Software%20Intensive%20Systems%20Data%20Quality.pdf)

[Research in Support of Future Defense Cost Analysis](http://sercuarc.org/uploads/files/TR%20032_RT%206_Software%20Intensive%20Systems%20Data%20Quality.pdf), A013 - Annual and Final Scientific Technical Report SERC 2012-TR-032

1. [Software Cost Estimation](http://www.st.cs.uni-saarland.de/edu/empirical-se/2006/PDFs/leung.pdf), Leung and Fan
2. [Software Cost Estimation Methods: A Review](http://cisjournal.org/archive/vol2no1/vol2no1_3.pdf)
3. [Software Cost Estimating and Control](http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.45.9301&rep=rep1&type=pdf)
4. [Software Cost Estimating Handbook](http://www.ieee-stc.org/proceedings/2009/pdfs/MW2388.pdf), Systems and Software Conference
5. [Software Development Cost Estimating Approaches, A Survey](http://csse.usc.edu/csse/TECHRPTS/2000/usccse2000-505/usccse2000-505.pdf)
6. [Realistic Software Cost Estimates for Fractionated Space Systems](http://csse.usc.edu/csse/TECHRPTS/2009/usc-csse-2009-532/usc-csse-2009-532.pdf)
7. [Reducing Estimation with Continuous Assessment](http://csse.usc.edu/csse/TECHRPTS/2010/usc-csse-2010-525/usc-csse-2010-525.pdf)
8. An [another](http://trs-new.jpl.nasa.gov/dspace/bitstream/2014/43160/1/12-4630_A1b.pdf) whose title that might be useful for the discussion of probabilistic estimating
9. Here’s the rest of the [cost estimating literature](http://trs-new.jpl.nasa.gov/dspace/simple-search?query=cost+estimating&submit=Go%20) at JPL. Each NASA center has similar content.
10. And another [client](http://www.agadc.org/2010_conf_slides_files/GAO_Cost_Estimating_and_Assessment_Guide_Burgess_May42010.pdf%20), again software intensive systems.
11. [Software Cost Estimating Relationships](https://www.iceaaonline.org/awards/papers/2010_software_it.pdf)
12. *Applied Software Project Management*, chapter on [Estimating](http://www.stellman-greene.com/aspm/images/ch03.pdf)
13. [Estimating Software Costs](http://cs.iupui.edu/~mroberts/n361/SDArticle1.pdf), a brochure, but with good discussion
14. Jeff Sutherland's [Story Points and Why They Are Better](http://scrum.jeffsutherland.com/2010/04/story-points-why-are-they-better-than.html). There is conjecture that *Stories* are better, but only and this is a huge only when they are statistically the same size.