

Questions

1. For the polyhedral trust region approach, do you use an L_2 -ball or an L_∞ -ball for the outer trust region?
1. Redo .bib keys to something meaningful. I use the following convention: ;author1 last name;. ;author2 last name;. ;ea (if more than 2 authors);. ;first meaningful word of title;. For example: the paper by Conejo, Karas, Pedroso, Ribeiro, and Sachine titled “Global Convergence of Trust-region Algorithms for Convex Constrained Minimization Without Derivatives”, would have .bibtex key Conejo.Karas.ea:global (instead of Conejo:2013:GCT:2620806.2621814, which is what you currently have).
2. The model improvement algorithm given in the background section as well as the modified algorithms given in chapter 3 need to be restated using the pivot polynomials u_i instead of the basis polynomials ϕ_i .
3. Sort out the role of Δ in the model-improvement algorithm. I believe the error bounds assume that $\Delta = \max \|y^i - y^0\|$.
4. Change μ^k to $\mu^{(k)}$ throughout?
5. Change P^k to $P^{(k)}$?