Thesis Advisory R. Inkulu

Please read the following if you are a student at cse@iitg and looking for an advisor to do an undergrad, Masters, or doctoral thesis work.

 my research interests are in the design of data structures and algorithms mainly for problems from computational geometry this involves

- computing optimal or approximate solutions
 with improved worst-case time and workspace complexities
- accommodating efficient querying
- handling dynamic inputs
- preregs for me to supervise your thesis
 - must have experienced at least one course offered by me
 - liking for the contents of core courses I regularly offer not necessarily have taken either of the electives I offer
 - willing to put in sincere efforts
 - enthusiastic to find newer solutions
 - have good perseverance
 - prefers to work independently
 - attitude to learn and contribute
- from my side
 - suggesting appealing problems to attempt
 - allocating enough time to meet
 - exploring with the student
 - closely coordinating
- typical schedule of work
 - learning selected prereq topics
 - focused and short literature survey
 - defining a couple of problems

- attempting to find solutions while varying problems where needed most of the time obviously goes for this
- proof writing once any solution is found
- each week two meetings, each is for about 45-minutes
- giving presentations all through
- building the report incrementally
- writing publishable quality final thesis, so that it is ready to be submitted to a journal

undergrad and Masters students may start working early (say by June) so that to take a break during the campus placement season (mid October through early December)

- articles co-authored with students I advised are here
 preliminary works of each such student first got presented at one to two conferences
- factors that could motivate you to work under my supervision
 - problems are hard but there is a great scope for learning by collaborating with me
 - work is foundational and interesting: after all, it is designing data structures and algorithms
 - you won't be working in a large team, would be directly interacting with me
 - writing thesis on a theoretical problem gives an excellent exposure to research
 - a thesis on algorithms is the most respected, both in academia and in industry
- email me if you have any further queries or want to meet