***CSCE686 Homework, Spring’19 (send electronic copy)***

***HW7:******(due 5/16)*** *“Please indicate appropriate references”*

**a)** *(10pts) Talbi #3.3(p297) “relate to your GA project crossover”*

**b)** *(30pts) Use a Genetic Algorithm for your project solution using one of the NPC problem objectives* ***or both\*****. Use at least one heuristic and don’t forget PD/AD feasibility functions. Explicity indicate your GA algorithm pseudo code (Talbi form and search elements). Discuss the “art” of GA parameter/function selection for your PD/AD. Reference at least one appropriate paper providing insight to your PD and this GA AD. This also could be a GA variation as is employed in your project!   
Extra Credit: Implement and test limited examples. Report via Barr, MF, Talbi.*

**c)** *(5pts) Checkout Talbi Exercises 3.8 and 3.9 and understand and discuss very briefly the answers given in the text.*

As always, for all questions requesting an algorithm, put it in the form of the standard structure used by Talbi. Also, embed the CSCE686 standard search constructs via comments.

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***\*If you choose not to use a project NP-C problem, use the SCP or a SCP variation or a MIS/Clique problem or a MIS/Clique variation. (check GA references)***