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Modeling to Help Government & Military Decision Making. Preliminary report.

We teach multi-attribute decision making in our three course sequence but limit our discussion to data envelopment analysis, Analytical Hierarchy Process, and TOPSIS. We also teach many regression techniques including nonlinear, logistics, and Poisson. We have built mathematical models to analyze terrorist risk, selection of General Officers, terrorist network assessment, as well as other related terrorist or insurgent activities using these techniques. We present modeling evidence as to how insurgencies or terrorist networks grow with an example from the Philippines. We also present evidence of interdiction of terrorist activities based upon real unclassified data. (Received September 10, 2013)