

1167-60-79

**Rod A Freed\*** ([rfreed@cusdh.edu](mailto:rfreed@cusdh.edu)), 4265 Marina City Drive Unit 211, Marina Del Rey, CA 90292. *Confidence that several targets will be hit simultaneously.*

In many situations, a decisionmaker may want to control the behavior of several variables simultaneously. In this paper we present a procedure which can be used to find how much confidence we can have that each of several targets will be hit simultaneously, given the values taken on by any variables under the decisionmakers's control. We then derive a set of functions which give the values of the variables under control of the decisionmaker which will maximize confidence that a set of targets will be hit, as functions of the values of the targets. Using this set of functions, the decisionmaker can vary the targets and note how maximum confidence of hitting changes as te set of targets changes. Unrealistic targets will lead to a low level of confidence, so the decisionmaker can use the procedure to weed out unrealistic targets (Received February 16, 2021)