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Rachid Ait Maalem Lahcen* (rachid@ucf.edu), Department of Mathematics, University of Central Florida, Orlando, FL 32816. *Optimal methods to withstand cyber attacks: two case studies.*

Cyber security is of paramount importance for individuals, states and nations at large. With the mushrooming of attackers, there is considerable research on determining motives behind such attacks. In this paper we have studied geo-physical crime mappings and cyber attacks on Ukrainian power grids. We shall also mention about optimal packet scan against malicious attacks on smart grids. There is considerable evidence that identification of different factors in a complex system may require Minmax technique from optimization Theory. (Received September 20, 2016)