

Cyber Security Defense: From Moving Target Defense to Cyber Deception

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Abstract: Deception technology is an emerging field of cyber security defense. Products from deception technology can detect, analyze, and defend against zero-day and advanced attacks. The talk starts with the discussion of some unique challenges with cyber deception, as compared with some other deception technology such as in the military. We then focus on moving target defense with a couple of examples and some recent results. Finally, we discuss several future directions of cyber deception research with a focus on game and theoretical models.