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M.Sc. or Ph.D. Research topic:

## **Strategic Uncertainty in Defense Assessment and Planning for National Security**

Data, models and contextual understanding underlie the identification of threats and opportunities in the assessment of national security. This underlies intelligence assessment, defense planning, and force build up, as well as the formulation of foreign and security policy. Data are sometimes extensive, but also invariably incomplete and partly erroneous in the deceptive environment of strategic interactions between adversaries. Some quantitative models are useful in evaluating force effectiveness, but qualitative contextual understanding is crucial and not amenable to inclusion in quantitative models. This is especially true in fluid strategic environments, such as the emergence of sub-state actors, the collapse of long-standing regimes, or the development of new and distinctive technologies. These factors all underlie the strategic uncertainty facing intelligence analysts and defense planners.

This research uses info-gap decision theory to model and manage strategic uncertainties in a diverse range of defense situations. Examples are found here:

<https://info-gap.net.technion.ac.il/homeland-security/>

Interested students are invited to contact me by phone or e-mail.