

# Workshop on Strategic Aspects of Terrorism, Security, and Espionage

Stony Brook University, Stony Brook, NY, July 16-18, 2014

Organizers: Drs. Boaz Ganor, Timothy Mathews, and Yair Tauman

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## **Wednesday, July 16, 2014:**

9:00am-9:50am: Registration and coffee/refreshments

9:50am-10:00am: Opening Remarks (Yair Tauman and/or Timothy Mathews)

10:00am-11:15am: Session I – “Coalition Formation and Bargaining” (3 presentations, 25 minutes each)

- (i.a) *Transnational Terrorism: Externalities and Coalition Formation* (Andre Rossi de Oliveira, Emilison C.D. Silva, & Joao Ricardo Faria)
- (i.b) *Stag Hunt Contests and the Alliance Formation Puzzle* (James Boudreau & Shane Sanders)
- (i.c) *An Economic Theory of Bargaining and Fighting with Endogenous Destruction* (Yang-Ming Chang & Zijun Luo)

11:15am-12:00pm: *Computational Game Theory for Security: Key Algorithmic Principles, Deployed Applications and Research Challenges* (Milind Tambe)

12:00pm-1:30pm: lunch break

1:30pm-2:20pm: Session II – “Foreign Policy and Aid” (2 presentations, 25 minutes each)

- (ii.a) *Aid as a Foreign Policy Instrument to Tackle Terror* (Prabal Roy Chowdhury & Jaideep Roy)
- (ii.b) *Can Delegated Deterrence Succeed?: A Game Theoretic Analysis of Cooperation in Counterterrorism* (Catherine Langlois)

2:20pm-3:10pm: Session III – “Experimental Studies” (2 presentations, 25 minutes each)

- (iii.a) *An Experimental Study of Dark Network Formation and Disruption* (Mark Bloxsom, Ronald Breiger, Michael McBride, & Brint Milward)
- (iii.b) *An Experiment on Deception, Credibility, and Trust* (David Ettinger)

3:10pm-3:40pm: coffee break

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## **Thursday, July 17, 2014:**

9:00am-9:30am: *Counterterrorism Dilemmas and Challenges* (Boaz Ganor)

9:30am-10:45am: Session IV – “Contest Models” (3 presentations, 25 minutes each)

- (iv.a) *Generalizations on the Colonel Blotto Game: What's Possible with Existing Solutions?* (Brian Roberson & Dan Kovenock)
- (iv.b) *Do Humanitarian Interventions Help Humanity? A Contest-Theoretic Analysis of Morally Hazardous Rebels in Civil Conflict* (Shane Sanders & Vincent Auger)
- (iv.c) *Focality and Asymmetry in Multi-battle Contests* (Subhasish M. Chowdhury, Dan Kovenock, David Rojo Arjona, & Nathaniel T. Wilcox)

10:45am-11:15am: coffee break

11:15am-12:30pm: Session V – “Espionage and Intelligence” (3 presentations, 25 minutes each)

- (v.a) *The Decision to Attack a Nuclear Facility: The Role of Intelligence* (Yair Tauman)
- (v.b) *Economic Espionage* (Konrad Grabiszewski & Dylan Minor)
- (v.c) *Entry with Two Correlated Signals* (Alex Barrachina, Yair Tauman, & Amparo Urbano)

12:30pm-2:00pm: lunch break

2:00pm-2:45pm: *Econometric Studies of the Impact of Terrorism* (Rafi Melnick)

2:45pm-4:00pm: Session VI – “Empirical Studies” (3 presentations, 25 minutes each)

- (vi.a) *Lone Wolf Terrorism and Economic Analysis* (Peter Phillips)
- (vi.b) *Youth Unemployment and Terrorism in the MENAP Region* (Aniruddha Bagchi & Jomon Paul)
- (vi.c) *Networks in Conflict: Theory and Evidence from the Great War of Africa* (Michael Koenig, Dominic Rohner, Mathias Thoenig, & Fabrizio Zilibotti)

4:00pm-4:30pm: coffee break

6:00pm: Reception Dinner

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## **Friday, July 18, 2014:**

9:30am-10:20am: Session VII – “Special Topics 1” (2 presentations, 25 minutes each)

- (vii.a) *The Social Evolution of Terror and Genocide Across Time and Geographic Space: Perspectives from Evolutionary Game Theory* (Charles Anderton)
- (vii.b) *Game-Theoretic Approach to Feedback-Driven Multi-Stage Moving Target Defense* (Quanyan Zhu & Tamer Basar)

10:20am-10:50am: coffee break

10:50am-11:40am: Session VIII – “Special Topics 2” (2 presentations, 25 minutes each)

- (viii.a) *Counterterrorism Analysis Using Cooperative Game Theory* (Sung Chan Choi)
- (viii.b) *Modeling Hostage-Taking: On Reputation and Strategic Rationality of Terrorists* (Heinrich Nax)