

# CAPS 2017

## Complexity-Based Analytics and Policies for Social Good

**Organizer:** The Journal for Policy and Complex Systems  
**Host:** The Center for Complexity in Business, Robert H. Smith School of Business, UMD

### Wednesday 12<sup>th</sup>

Registration / Check-in opens at 11:00 am

Opening remarks and welcome: 12:15 pm – 12:30 pm

#### **Session 1:** 12:30 pm – 1:30 pm

Asim Zia and Chris Koliba: *Agent Based Modeling of Intergovernmental Networks: Harnessing Experimental Simulations for Transportation Policy Informatics*

Liz Johnson and Maury Seldin: *Plato's Cave May Unite Americans and Save Democracy but Not Without Analytics*

BREAK: 30 MINUTES

#### **Session 2:** 2:00 pm – 3:30 pm

##### **Panel Discussion**

BREAK: 30 MINUTES

#### **Session 3:** 4:00 pm – 5:00 pm

**Keynote:** Chris Barrett, Biocomplexity Institute, Virginia Tech

### Thursday 13<sup>th</sup>

#### **Session 4:** 8:30 am – 10:00 am

Pratik Mital, Roxanne Moore, and Donna Llewellyn: *Education System Intervention Modeling Framework*

James Thompson, Trevor Caskey, Alison Dingwall, and Zoe Henscheid: *Citizen-centric Government Ecosystem: An Agent-based Approach to the Theory of Planned Behavior*

John Hanley and Donna Rizzo: *A Novel Evolutionary Algorithm to Mine Noisy Survey Datasets with an Application Towards Combating Chagas Disease*

BREAK: 15 MINUTES

#### **Session 5:** 10:15 am – 11:45 am

Nazmiye Gizem Bacaksizlar and Mirsad Hadzikadic: *Modeling Social Media Effect on Civil Revolutions*

Jeremy Throne: *Censorship as/and Social Good: Modeling the Publication of Mark Twain's Autobiography*

Kyle Ballard and Brant Horio: *Modeling a Victim-Centered Approach for Detection of Human Trafficking Victims Within Migrant Camps*

BREAK: 30 MINUTES – LUNCH SERVED

**Session 6 (during lunch):** 12:15 pm – 1:45 pm  
**Panel Discussion**

BREAK: 15 MINUTES

**Session 7:** 2:00 pm – 3:00 pm  
**Rob Axtell, Department of Computational Social Science, George Mason University**

BREAK: 30 MINUTES

**Session 8:** 3:30 pm – 5:00 pm  
Martin Schmidt: *Historic Innovation and Technological Change: Effects on Legal Citation Behavior*  
Fred Wulczyn and John Halloran: *Modeling Complexity in Human-Built Systems: New Approaches, New Findings in Foster Care*  
Chen Wang, Mankad Shawn, and William Rand: *How Social Media Can Improve Donation Campaigns*

DINNER / BANQUET: 7:00 PM – 7:00 PM – Elephant and Castle, 1201 Pennsylvania Ave NW

Friday 14<sup>th</sup>

**Session 9:** 9:00 am – 10:30 am

Miron Kaufman, Sanda Kaufman, and Hung The Diep: *Scenarios of social conflict dynamics on duplex networks*  
Peter Davis and Roy Lay-Yee: *New Zealand as a "social laboratory:" A discrete-time dynamic micro-simulation model*  
Shang Wu, Asim Zia, Mengyuan Ren, and Kent Messer: *Simulating Heterogeneous Farmers under Different Policy Schemes: Integrating Economic Experiment and Agent-Based Modeling*

BREAK: 30 MINUTES

**Session 10:** 11:00 am – 12:30 pm

D. Cale Reeves: *A Method for Deriving Social Networks from Route Analysis Using Open Data: an Application for Agent-Based Modeling*  
Elizabeth von Briesen, N. Gizem Bacaksizlar, and Mirsad Hadzikadic: *Modeling Genocide at the System and Agent Levels*

Closing Remarks and Future Plans  
End of conference



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