

# CSS 2024 Conference Schedule

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**Computational Social Science 2024**

**Drury Plaza Hotel in Santa Fe, NM**

**October 24 – 27, 2024**

Note: Members may join the SIGs and the Keynotes via Zoom. The Zoom links can be found on the member's page of the CSSSA website.

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## **Thursday, October 24, 2024, Virtual and Drury Hotel, Rivera A 138**

### **Special Interest Group meetings**

**1:00 – 4:00**    **An Introduction to the Mesa Agent-Based Modeling Platform**

**4:00 – 6:00**    **The Validation of Agent-Based Models**

### **Opening Reception, Drury Hotel, O'Keeffe Room**

**6:00 – 9:00**    **Opening Reception**

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## **Friday, October 25, 2024, Drury Hotel, Lamy Room**

### **Welcome and Opening**

**9:00 – 9:15**    **Matthew Koehler: President, CSSSA**

**--15 minute break--**

### **Morning Session**

**9:30 – 11:00**    **Session 1 – Chair: Zining Yang**

*Paper 1: Retention in Higher Education: An Agent-Based Model of Social Interactions and Motivated Agent Behavior*

**Amira Stine, Andrew Crooks**

*Paper 2: MADmax: Multi-Agent Trust Dynamics and Influence Maximization*

**Asael Sorensen, Matthew Sweitzer, Asmeret Naugle, Casey Doyle, Daniel Krofcheck**

*Paper 3: Intelligent Agent Interactions for Southwest Border Interdictions*

**Chris Prather**

**--30 minute break--**

## Luncheon Keynote

**11:30 – 12:30** Keynote Address: Cris Moore: “*Pretrial Risk Assessment on the Ground: Lessons from New Mexico*”

**12:30 – 1:30** Lunch (provided)

--15 minute break--

## Afternoon Sessions, Drury Hotel, Lamy Room

**1:45 – 2:45** Session 2 – Society and Board Discussion – Chair: [Matthew Koehler]

--30 minute break--

**3:15 – 4:45** Session 3 – Chair: Elizabeth von Briesen

Paper 4: *Scaling Agent-Based Model Outputs Using Network Analysis*

**Maxim Malikov, Hamdi Kavak**

Paper 5: *Engaging Communities in Developing Technologies to Support Community Flourishing: A Workshop Report*

**Catherine Arrington**, Eric Baumer, Kathryn Jackson, Haiyan Jia, **Jiin Jung**, Shan Li, Dustin Stoltz

Paper 6: *Classifying Noisy Human Signals Using Topological Data Analysis*

**Asael Sorensen**, Sarah Simpson, Matthew Hoffman

**4:45 – 5:00** One slide summaries of posters being presented

--1 hour break--

## CAPS Hosted Poster Reception, Drury Hotel, Palace A Room

**6:00 – 9:00** Poster Session, with refreshments

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## Saturday, October 26, 2023, Drury Hotel, Lamy Room

### Morning Sessions

**9:00 – 10:30** Session 4 – Chair: Jiin Jung

Paper 7: *Micro, Meso, Macro: Generic Structures of Social Complexity for Defense Systems Engineering & National Security Wargames*

**Timothy Clancy**, KJ Oviatt, Valeria Stephens, and Erika Palmer

Paper 8: *Analysis of FPDS-NG Data for economic influence*

**James Melone**

Paper 9: *Recommending defenses against cyber threats: an approach inspired by machine translation*

**Peter Chew**

--15 minute break--

**10:45 – 12:15 Session 5 – Chair: Ellen Badgley**

Paper 10: *Belief evolution in society over time: dynamics based on random and homophily-based networks, and applications.*

**Pushpi Paranamana**, Natalia Luna, Molly Mullett

Paper 11: *On Representing Knightian Uncertainty in Agent-Based Models*

Robin Ckark, **Steven Kimbrough**

Paper 12: *Generational Taste Formation and Cultural Markets: A Develcological approach to Cultural Change*

**Ernesto Lhuillier**

**Lunch Break - On Your Own - 12:15 – 2:00**

**Afternoon sessions, Lamy Room**

**2:00 – 3:30 Session 6 – Panel on application of CSS – Chair: Matthew Koehler**

--15 minute break--

**3:45 – 5:15 Session 7 – Chair: D. Cale Reeves**

Paper 13: *Gardening Contagion: Using Agent-Based Modeling to Examine Growth and Persistence of Food-Secure Communities*

Gavin Wilson, Caroline Krejci, **Elizabeth von Briesen**

Paper 14: *Graph Neural Ordinary Differential Equations for Coarse-Grained Socioeconomic Dynamics*

**James Koch**, Pranab Roy Chowdhury, Heng Wan, Parin Bhaduri, Jim Yoon, Vivek Srikrishnan, W. Brent Daniel

Paper 15: *Modeling the Evacuation from a Regional Disaster Using the Poisson distribution*

**William Kennedy**

**\*CSS Annual Group Photo – directly after the last talk.\***

--15 minute break--

## **Banquet, Drury Hotel, Palace A Room**

**5:30 – 8:30** Conference banquet with Keynote by **Ruth Schmidt: "Behavioral pattern languages: Emerging approaches to systems-level behavioral challenges"**

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## **Sunday, October 27, 2024, Drury Hotel, Lamy Room**

### **CSSSA Society Meeting**

**9:00 – 10:00** Session 8 – Society Business Meeting

**Status of the Society**

**Treasurer's Report**

**Proposed Board Change**

**Voting on Board Change**

**10:00 – 10:30** Session 9 – Open Member Roundtable with Board

**10:30 –** **Matthew Koehler closing remarks (we will adjourn no later than 11:00)**

## 2024 Poster Session, Drury Hotel Lamy Room

*Agent-Based Model for Optimal Remedial Staffing to Achieve Learning Outcomes within Cost Constraints*

**Paul Amoruso**, Ronald DeMara, Ivan Garibay

*How does network structure in Agent-Based Models affect epidemiological parameters? A large simulation study*

**Aníbal Olivera**, George Vega, Chong Zhang, Alun Thomas, Matthew Samore, Karim Khader

*Learning from Pandemic to Prepare Schools for Endemic Management of COVID-19 – An Agent Based Modeling Approach*

**Nisha Baral**, Michelle Song, Leah Frerichs, Kristen Hassmiller, Gaurav Dave

*Role of Cultural Scripts in Public Mass Killings: Empirical Observations & Simulations of Two School Shooting and a White Supremacy Terror Contagion*

**Timothy Clancy**

*Self-Efficacy Development as a Social Phenomenon*

**Noah Burrell**

*Using Computational Methods to Investigate Immigration and Homelessness*

**Brittanny Cure Ramirez, Elizabeth von Briesen**

*Using Agent-Based Modeling to Study the Evolution of Music*

**Eli Orkin, Elizabeth von Briesen**