

# ISI 2018

Graduate Student Symposium

## Information Sciences Institute Graduate Student Symposium April 5, 2018

The Information Sciences Institute (ISI) Graduate Student Symposium (GSS) is an annual event for students to present their ongoing or accepted work to the wider institute. There are 22 submissions this year.

We would like to thank the volunteer Program Committee Members for their assistance with reviewing the submitted work.

### Schedule:

Session	Time	Location	Content
Opening/ Long Talk 1	10:40am- 12:15pm	MDR 1016	<b>Welcome talk:</b> <b>Talk 1-</b> (2) FRADE: Flash cRowd Attack Defense Rajat Tandon, Abhinav Palia, Jaydeep Ramani, Brandon Paulsen, Genevieve Bartlett, Jelena Mirkovic  <b>Talk 2-</b> (3) Blacklists Assemble: Aggregating Blacklists for Accuracy and Speed Sivaramakrishnan Satyamangalam Ramanathan, Jelena Mirkovic, Minlan Yu  <b>Talk 3-</b> (4) LDplayer: DNS Experimentation at Scale Liang Zhu, John Heidemann  <b>Talk 4-</b> (7) Enumerating Privacy Leaks in DNS Data Collected above the Recursive Basileal Imana, Aleksandra Korolova, John Heidemann  <b>Talk 5-</b> (9) Understanding Malware's Network Behaviors using Fantasm Xiyue Deng, Hao Shi, Jelena Mirkovic
Lunch/Poster	12:15pm- 1:15pm	MDR 1014	<b>Poster 1-</b> (1) Pegasus and Panorama360 George Papadimitriou, Ewa Deelman, Rafael Ferreira da Silva, Rosa Filgueira, Vickie Lynch, Anirban Mandal, Cong Wang, Jeffrey Vetter  <b>Poster 2-</b> (8) Can Whitelist Mitigate DDoS Attacks in DNS Root Servers? ASM Rizvi, John Heidemann  <b>Poster 3-</b> (16) In Situ Data Analytics for Next Generation Molecular Dynamics Workflows Tu Mai Anh Do  <b>Poster 4-</b> (17) Weighted Feature Pooling Network in Template-Based Recognition Zekun Li  <b>Poster 5-</b> (19) Stable Parallel Inference in Probabilistic Models (Poster) Neal Lawton  <b>Poster 6-</b> (20) Plumb: Efficient Multi-user Large-file Stream Processing in a Lumpy Pipeline of Serial Programs Abdul Qadeer, John Heidemann  <b>Poster 7-</b> (12) Gaussian Graphical Models with Sparsely Connected Latent Factors Serban Stan, Greg Ver Steeg

Short Talk Session 1	1:15pm-2:15pm	MDR 1016	<p><b>Short Talk 1-</b> (5) A Batch Learning Framework for Scalable Personalized Ranking Kuan Liu, Prem Natarajan</p> <p><b>Short Talk 2-</b> (6) Learn to Combine Modalities in Multimodal Deep Learning Kuan Liu, Yanen Li, Ning Xu, Prem Natarajan</p> <p><b>Short Talk 3-</b> (10) Content-Aware Image-to-GPS Verification Jiaxin Cheng, Yue Wu, Wael Abd-Almageed, Prem Natarajan</p> <p><b>Short Talk 4-</b> (15) Expert-Guided Entity Extraction using Expressive Rules Runqi Shao, Mayank Kejriwal, Wole Omitowaju, Pedro Szekely</p> <p>Improvised/lightning talks Coffee Break</p>
Long Talk 2	2:15pm-4:00pm	MDR 1016	<p><b>Talk 6-</b> (13) Table Vectors for Classification of Web Tables Majid Ghasemi Gol, Pedro Szekely</p> <p><b>Talk 7-</b> (14) Robust entity centric search over noisy knowledge graphs Jason Slepicka, Pedro Szekely</p> <p><b>Talk 8-</b> (18) A Forest Mixture Bound for Parallel Inference Neal Lawton, Aram Galstyan, Greg Ver Steeg</p> <p><b>Talk 9-</b> (21) Time Series Summarization Pegah Jandaghimeibodi, Chukiat Phonsom, Jay Pujara</p> <p><b>Talk 10-</b> (22) Enhancing Group Recommender Using Multiple Attribute Decision Making Sarik Ghazarian, MohammadAli Nematbakhsh</p> <p><b>Talk 11-</b> (23) Leveraging Controlled Information Sharing for Botnet Activity Detection Calvin Ardi, John Heidemann</p> <p><b>Talk 12-</b> A Binary Analysis Approach to Retrofit Security in Input Parsing Routines Jayakrishna Menon</p>
Closing/Awards Presentation	4:00pm-4:10pm	MDR 1016	Closing/Awards

**Organizing Committee:**

**Faculty Advisor:**

**Program Committee Members:**

Geoffrey Tran	Liang Zhu	Minh Pham
Christophe Hauser	Yigal Arens	
Abdul Qadeer	Greg Ver Steeg	Craig Knoblock
Fred Morstatter	Jay Pujara	Ryan Gabbard
Vivek Venugopalan	Andres Abeliuk	Hans Chalupsky
Calvin Ardi	Constantine Lignos	

