

## Session 1A: Networking, Security, and Machine Learning

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Klaus 1116W, 1:00 - 3:00pm

Title	Speaker	Advisor
Network Inference	Partha Kanuparth	Constantine Dovrolis
Answering What-If Deployment and Configuration Questions with WISE	Mukarram bin Tariq	Nick Feamster
MyMANET: A Customizable Mobile Ad hoc Network	Ashwin Paranjpe	Santosh Vempala
SNARE: Spatio-Temporal Network-level Automated Reputation Engineer	Shuang Hao	Nick Feamster
Robust Signatures for Kernel Data Structures	Brendan Dolan-Gavitt	Jon Giffin & Wenke Lee
Security Information From DNS Monitoring	Manos Antonakakis	Wenke Lee
Fast Nearest Neighbor Search by Rank Approximation	Parikshit Ram	Alexander Gray
Multi-Class Multi-Label Multi-Instance Classification (M3C) and Its Application in Named Entity Mining from Query/Clickthrough Logs	Shuang Hong Yang	Hongyuan Zha
Augmenting Aerial Earth Maps with Dynamic Information	Kihwan Kim	Irfan Essa
Recognizing Sign Language from Brain Signals	Nishant Mehta	Melody Moore Jackson

## Session 1B: Software Engineering, Systems, and Architecture

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Klaus 1116E, 1:00 - 3:00pm

Title	Speaker	Advisor
IP-TV and the Streaming Cloud	Dave Lillethun	Umakishore Ramachandran
Monitoring Continuous State Violation in Datacenters: Exploring the Time Dimension	Shicong Meng	Ling Liu
Spatial Alarms: Challenges and Techniques	Bhuvan Bamba	Ling Liu
OpenShmem and OpenStruct: Data object optimization in global memory	Peter Budny	Karsten Schwan
Speeding up sequential computations through n-version parallelism	Romain Cledat	Santosh Pande
Performance Degradation due to Voltage and Frequency Scaling in Modern Processors	Hrshikesh Amur	Karsten Schwan
Taint-based Dynamic Analysis	Jim Clause	Alex Orso
Evaluating Cues for Resuming Interrupted Programming Tasks	Chris Parnin	Spencer Rugaber
Analyzing the Effects of Program Changes with Dependence Analysis and Symbolic Execution	Raul Santelices	Mary Jean Harrold
Neighborhood of Nodes Directory Scaling for Manycore Processors	Jesse Beu	Tom Conte
GPU analytical model	Sunpyo Hong	Hyesoon Kim

## Session 2A: HCI & Robotics

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Klaus 1116W, 4:00 - 6:00pm

Title	Speaker	Advisor
Connect to Congress: Visual Analytics for Civic Oversight	Peter Kinnaird	Gregory Abowd
Infrastructure Mediated Sensing using Home Powerlines	Erich Stuntebeck	Gregory Abowd
Supporting Human Analysis of Behavior in Everyday Environments	Mario Romero	Gregory Abowd
Using an Ecological Framework to Design Mobile Technologies for Pediatric Asthma Management	Hee Young Jeong	Rosa Arriaga and Gregory Abowd
Technological Advice Sharing in Homes (or: "Why Do I Need a Help Manual When I Have You?")	Erika S. Poole	Keith Edwards
Mobile Technology for the Urban Homeless	Christopher A. Le Dantec	Keith Edwards
Social Networks, Wikipedia, Video Games, and Online Animations	Sarita Yardi	Amy Bruckman
Visual Analytics for Investigative Analysis	Carsten Görg	John Stasko
Effects of Social Exploration Mechanisms on Robot Learning	Nick DePalma	Andrea Thomaz
Using a Compliant Robot for Manipulation in Indoor Human Environments	Advait Jain	Charlie Kemp
PPS-Tags: Physical, Perceptual, and Semantic Tags for Autonomous Mobile Manipulation	Hai Nguyen	Charlie Kemp

## Session 2B: Graphics & Theory

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Klaus 1116E, 4:00-6:00pm

Title	Speaker	Advisor
Fast Distributed Random Walks	Atish Das Sarma	Richard J. Lipton
Skyline Computation in Database System	Danupon Nanongkai	Richard J. Lipton
Encryption Schemes for Outsourced Databases	Adam O'Neill	Sasha Boldyreva
Deterministic Algorithm for Lovasz Local Lemma	Karthekeyan Chandrasekaran	Santosh Vempala
Uniform Sampling for Star Shaped Bodies	Daniel Dadush	Santosh Vempala
Phase Transition for the Mixing Time of the Glauber Dynamics for Coloring Regular Trees	Linji Yang	Eric Vigoda
B-morphs between b-compatible curves in the plane	Brian Whited	Jarek Rossignac
SOT: Compact Representation for Tetrahedral Meshes	Topraj Gurung	Jarek Rossignac

Animating Responsive Characters with Dynamic Constraints in the Near-Unactuated Coordinates	Yuting Ye	Karen Liu
Optimization-Based Interactive Motion Synthesis	Sumit Jain	Karen Liu
Fast Animation of Viscoelastic Materials	Chris Wojtan	Greg Turk

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