

Information Science & Technology Institute – Rapid Response: D-Wave Effort Debrief

Agenda

Los Alamos National Laboratory
MSL Auditorium

Thursday, April 27, 2017
1 pm – 5 pm

- 1:00 **Welcome, Logistics**
Stephan Eidenbenz (ISTI)
- 1:10 **Leveraging LANL’s D-WAVE 2X for Random Number Generation**Sarah Michalak
1:25 **The Cost of Embedding** Nathan Lemons
1:40 **Beyond Pairwise Ising Models in D-Wave: Searching for Hidden Multi-Body Interactions**
.....Andrey Lokhov
1:55 **Using the D-Wave 2X to Explore the Formation of Global Terrorist Networks**
.....John Ambrosiano
2:10 **Connecting D-Wave 2X to Bayesian Inference Image Analysis**John Perry
2:25 **Quantum interaction of a few particle system mediated by photons**Petr Anisimov
2:40 **Simulations of non-local spin interaction in atomic magnetometers using LANL’s DWave 2X**
.....Igor Savukov
- 2:55 **BREAK (with Refreshments)**
- 3:10 **Problem Reformulation and Matrix Sparsification**Hristo Djidjev
3:30 **Quantum Annealing Approaches to Graph Partitioning for Electronic Structure Problems**
.....Sue Mniszewski
3:50 **Combinatorial Blind Source Separation using LANL’s D-Wave 2X**Dan O’Malley
4:10 **A Rigorous Comparison of the D-Wave 2X to Established B-QP Solution Methods**
.....Carleton Coffrin
4:30 **Solving Sparse Representation as for Object Classification Using the D-Wave 2X**Nga Nguyen
- 4:50 **DISCUSSION**Lead: John Sarrao (ADTSC), Bill Archer (ASC)
5:15 **ADJOURN**