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The workshop takes place on July 9th, 2008

8:30-8:40   Introduction (*Irina Rish*)

8:40-9:20   **Convex relaxations and sparsity in high-dimensional machine learning** (*Martin Wainwright*)

9:20-10:10   Invited Talk: **Exploiting sparsity in compressed sensing** (*Richard Baraniuk*)

10:10-10:30 **Low \ell_1-norm and guarantees on sparsifiability** (*Shai Shalev-Shwartz & Nathan Srebro*)

10:30-10:50 Coffee Break

10:50-11:10 **Elastic net regularization in learning theory** (*Christine De Mol, Ernesto De Vito and Lorenzo Rosasco*)

11:10-11:30 **Consistency of the group Lasso and multiple kernel learning** (*Francis Bach*)

11:30-12:10 Invited Talk: **Hierarchical statistical methods in compressive sensing** (*Lawrence Carin*)

12:10-12:30 Discussion

12:20-14:00 Lunch Break

14:00-14:40 Invited Talk: TBA (Gert Lanckriet)

14:40-15:00 **Semi-supervised multi-task feature selection for learning discriminative image representations** (*Ariadna Quattoni, Michael Collins and Trevor Darrell*)

15:00-15:10 break (prepare for "Beyond \ell_1" session :)

15:10-15:30 **A norm concentration argument for non-convex regularization** (*Ata Kaban and Robert J. Durrant*)

15:30-15:50 **In defense of \ell_0** (*Dongyu Lin, Emily Pitler, Dean P. Foster and Lyle H. Ungar*)

15:50-16:50 Coffee Break and Poster Session. Abstracts:

      Bach, Balcan, Clark, Cui, Goetschalckx, Kropotov, Palatucci, Signoretto, Vidaurre

16:50-17:30 Invited Talk: **Sparse Optimizations for Speech and Audio Processing** (*Lawrence Saul*)

17:30-18:00 Discussion: Open Questions and Future Directions