NIPS98

Neural Information Processing Systems 12

Tutorials:	November 30	Denver, CO
Conference:	December 1-3	Denver, CO
Workshops:	December 4-5	Breckenridge, CO

Tutorials

William Bialek
Do we understand the neural code?

Henry Markram
Neocortical Synapses

Joachim M. Buhmann
Exploratory Data Analysis and Data Visualization

Daniel Kersten
Computational Vision : Principles of Perceptual Inference

Peter Bartlett
Learning Theory and Generalization for Neural Networks and Other Supervised Learning Techniques

Jean-Francois Cardoso
Independent Component Analysis and Blind Separation of Signals

Invited Talks

Bernardo Huberman (banquet speaker)
"The Laws of the Web"

Larry Abbott
"Gain Modulation, Correlation, and Population Codes"

Eugene Charniak
"Statistical Natural Language Processing : Better Living Through Floating-point Numbers"

Neil Gershenfeld
"Things that Think"

Eero Simoncelli
"Statistics of Visual Images : Neural Representation and Synthesis"

Haim Sompolinsky
"Computation by Cortical Modules"

Workshops

Dynamics in networks of spiking neurons

Population coding

Temporal coding :
Is there evidence for it and what is its function?

Optical imaging of the visual cortex

Olfactory coding : Myths, models and data

Statistical theories of cortical function

Learning from ambiguous and complex examples

Turnkey algorithms for improving generalizers

Mining massive databases : Scaling prediction and clustering to massive and high-dimensional data

Combining supervised and unsupervised learning

Learning on relational data representations

Sequential inference and learning

Hierarchy and abstraction in reinforcement learning

Movement primitives :
Building blocks for learning motor control

Large margin classifiers

Development :
Building and adapting complex and useful structures

Hybrid neural symbolic integration

Simple inference heuristics
versus complex decision machines

Continuous learning

Learning chips and neurobots

Organizing Committee

General Chair	Michael Kearns
Program Chair	Sara Solla
Workshop Chairs	Rich Zemel
	Sue Becker
Tutorials Chair	Klaus Mueller
Publicity Chair	Jonathan Baxter
Publications Chair	David Cohn
Treasurer	Bartlett Mel
Local Arrangements	Arun Jagota
Webmaster	L. Douglas Baker
Government Liason	Gary Blasdel
Contracts	Steve Hanson
	Scott Kirkpatrick
	Gerry Tesauro
Program Committee	Andrew Barto
	Joachim Buhmann
	Lars Kai Hansen
	Nathan Intrator
	Robert Jacobs
	Esther Levin
	Alexandre Pouget
	David Saad
	Sara Solla (chair)
	Sebastian Thrun
	Manfred K. Warmuth
	Yair Weiss
Poster Art	Llew Mason
	Jonathan Baxter

Web site: http://www.cs.cmu.edu/Groups/nips
Email: nipsinfo@salk.edu
Telephone: (619) 453-4100, ext. 1280
Fax: (619) 587-0417