

Joint Conference of AMS and HKMS
Special Session "Mathematics of Learning Theory"

Organizers: Felipe Cucker and Stephen Smale

On December 13 (Wednesday)

A Csernoff type bound for sum of dependent random variables

Van Vu

Microsoft Research

Time: 2:30-3:00pm

Learning with kernels: an introduction

Bernhard Schoelkopf

Microsoft Research

Time: 3:00-3:30pm

Tea Break:

Adaptive sampling techniques: theory and applications

Carlos Domingo

Tokyo Institute of Technology

Time: 3:45-4:15pm

On the generalisation process in learning: approximation error, effective complexity, and optimal stopping

Santosh Venkatesh

University of Pennsylvania

Time: 4:15-4:45pm

A survey of density estimation in speech recognition

Charles Micchelli

SUNY, Albany

Time: 4:45-5:15pm

On December 14 (Thursday)

Least squares support vector machines

Johan Suykens

Catholic University of Leuven

Time: 11:15-11:45am

Eigenvalues in the design and analysis of learning algorithms

John Shawe-Taylor

Royal Holloway, University of London

Time: 11:45am-12:15pm

Unsupervised fuzzy learning methods for noisy line image analysis

Hong Yan

City University of Hong Kong

Time: 12:15-12:45pm

Lunch Break

Model selection based on estimated penalties

Gabor Lugosi

Universitat Pompeu Fabra

Time: 2:30-3:00pm

Clifford algebra, spin representation and rational parametrization

Hyeong In Choi

Seoul National University

Time: 3:00-3:30pm

Tea Break

Applications of learning machines and how the brain works

Tomaso Poggio

MIT

Time: 3:45-4:15pm

Learning with kernel machines and their ensembles I

Massimiliano Pontil

MIT

Time: 4:15-4:45pm

Learning with kernel machines and their ensembles II

Theodoros Evgeniou

MIT

Time: 4:45-5:15pm

On December 15 (Friday)

Modeling vocabulary emergence

William S-Y. Wang

City University of Hong Kong

Time: 11:15-11:45pm

On the mathematical foundations of learning theory: I

Stephen Smale

City University of Hong Kong

Time: 11:45am-12:15pm

On the mathematical foundations of learning theory: II

Felipe Cucker

City University of Hong Kong

Time: 12:15-12:45pm

On December 16 (Saturday)

Risk minimization with convex combinations

Peter Bartlett

Australian National University

Time: 11:15-11:45am

Interpolation with wavelet-based reproducing kernels

Yu Yi

National University of Singapore

Time: 11:45am-12:15pm

TBA

M. Vidyasagar

Bangalore, India

Time: 12:15-12:45pm