Welcome!

Russ Greiner + Dale Schuurmans
ICML-2004 Program Chairs
In the beautiful
Canadian Rockies…

Twenty-First
International
Conference on
Machine Learning,
2004
Sponsors

- Local (Alberta)
- Gov’t (US)
- Industry

- University of Alberta
- Computing Science
- Alberta Ingenuity Centre for Machine Learning
- PIMS
- DARPA
- NSF
- Google
- Yahoo! Research Labs
- Siemens
- Microsoft
- Sun Microsystems
- Machine Learning
Thanks to...

- Organizing Committee:
  Carla Brodley, Johannes Furnkranz, Rob Holte, Michael DeMarco, Kiri Wagstaff, Jennifer Dy, Stephen Scott, David Jensen, David Woloschuk + web team

- Workshop/Tutorial Organizers
- Invited Speakers
- Area Chairs + Reviewers
- Authors
- Registrants
368 submissions

Outright Accepted, 65, (18%)
Conditionally Accepted, 56, (15%)
Outright Rejected, 247, (67%)

56 CA’s

CA Reject, 3, (5%)
CA Accept, 53, (95%)
Breakdown of Submissions

42% increase in submissions from ‘02
### Top 10 Submitted Topics: 2004

<table>
<thead>
<tr>
<th>Rank</th>
<th>Topic</th>
<th># Submissions</th>
<th># Accepts</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Statistical learning</td>
<td>49</td>
<td>31</td>
</tr>
<tr>
<td>2</td>
<td>Empirical evaluation</td>
<td>38</td>
<td>12</td>
</tr>
<tr>
<td>3</td>
<td>Feature selection</td>
<td>36</td>
<td>14</td>
</tr>
<tr>
<td>4</td>
<td>Reinforcement learning</td>
<td>36</td>
<td>15</td>
</tr>
<tr>
<td>5</td>
<td>Semi-supervised learning</td>
<td>29</td>
<td>6</td>
</tr>
<tr>
<td>6</td>
<td>Kernels</td>
<td>28</td>
<td>20</td>
</tr>
<tr>
<td>7</td>
<td>On-line learning</td>
<td>26</td>
<td>4</td>
</tr>
<tr>
<td>8</td>
<td>Clustering</td>
<td>25</td>
<td>12</td>
</tr>
<tr>
<td>9</td>
<td>Bayesian learning</td>
<td>24</td>
<td>14</td>
</tr>
<tr>
<td>10</td>
<td>Support vector machines</td>
<td>24</td>
<td>15</td>
</tr>
</tbody>
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**Note:** Many papers had >1 topic; and many had 0!
Outstanding Student Papers

- **Learning a Kernel Matrix for Nonlinear Dimensionality Reduction**
  - *Kilian Weinberger, Fei Sha, Lawrence Saul*

- **Decentralized Detection and Classification using Kernel Method**
  - *XuanLong Nguyen, Martin Wainwright, Michael Jordan*

- **Generalized Low Rank Approximations of Matrices**
  - *Jieping Ye*
Honorable Mention
for Outstanding Paper Award

- **Multiple Kernel Learning, Conic Duality, and the SMO Algorithm**
  - *Francis Bach, Gert Lanckriet, Michael Jordan*

- **Efficient Hierarchical MCMC for Policy Search**
  - *Malcolm Strens*

- **Authorship Verification as a One-Class Classification Problem**
  - *Moshe Koppel, Jonathan Schler*
Invited Presentations

- Learning to See People
  *Michael J. Black*

- Models of Dynamic Uncertainty in Univariate and Multivariate Systems
  *Robert Engle*

- Whole Genome Sequencing, Comparative Genomics, and Systems Biology
  *Eugene Myers*
Enjoy the Conference!
Organizing Committee

- Conference Chair: Carla Brodley
- Workshops and Tutorials Chair: Johannes Fürnkranz
- Local Arrangements Chairs: Rob Holte (Michael DeMarco)
- Registration Chair: Kiri Wagstaff
- Proceedings Chair: Jennifer Dy
- Treasurer: Stephen Scott
- Government Funding Chair: David Jensen
- Volunteer Coordinator: Kiri Wagstaff
- Webmaters: David Woloschuk, Bryce Larson