

Structured Machine Learning: The Next 10 Years

Tom Dietterich, Pedro Domingos,
Lise Getoor, Bernhard Pfahringer,
Stephen Muggleton
Moderator: Prasad Tadepalli

Motivation

- Structured machine learning, ILP, and relational learning made a lot of progress over the last 20 years.
- Many new approaches and research directions are emerging, e.g., statistical relational learning, relational reinforcement learning, etc.
- A large number of recent workshops on related topics, e.g., David Jensen's list.
- This seems like a good time to do some long-term strategic planning.

Questions to Panel

- What are the important open scientific problems in this area or these areas?
- What application problems have the most potential?
- How does solving these problems advance the state of the art and the world?
- How does it facilitate interaction between different ``subareas'' of this field including ILP, Statistical Relational Learning, Relational Reinforcement Learning, and others?
- What are one or two focused Ph.D. thesis topics in your research program?