



Twenty-second International Joint Conference on Artificial Intelligence

Barcelona, Catalonia (Spain)

July 16 – 22, 2011



Conference Theme: Integrated and Embedded Artificial Intelligence

- Special track at the conference on the theme
- 11 co-located conferences, workshops, and symposia, and a summer school
- Invited track of 49 best papers from sister conferences

IJCAI 11



IJCAI Conference Locations Since 1969



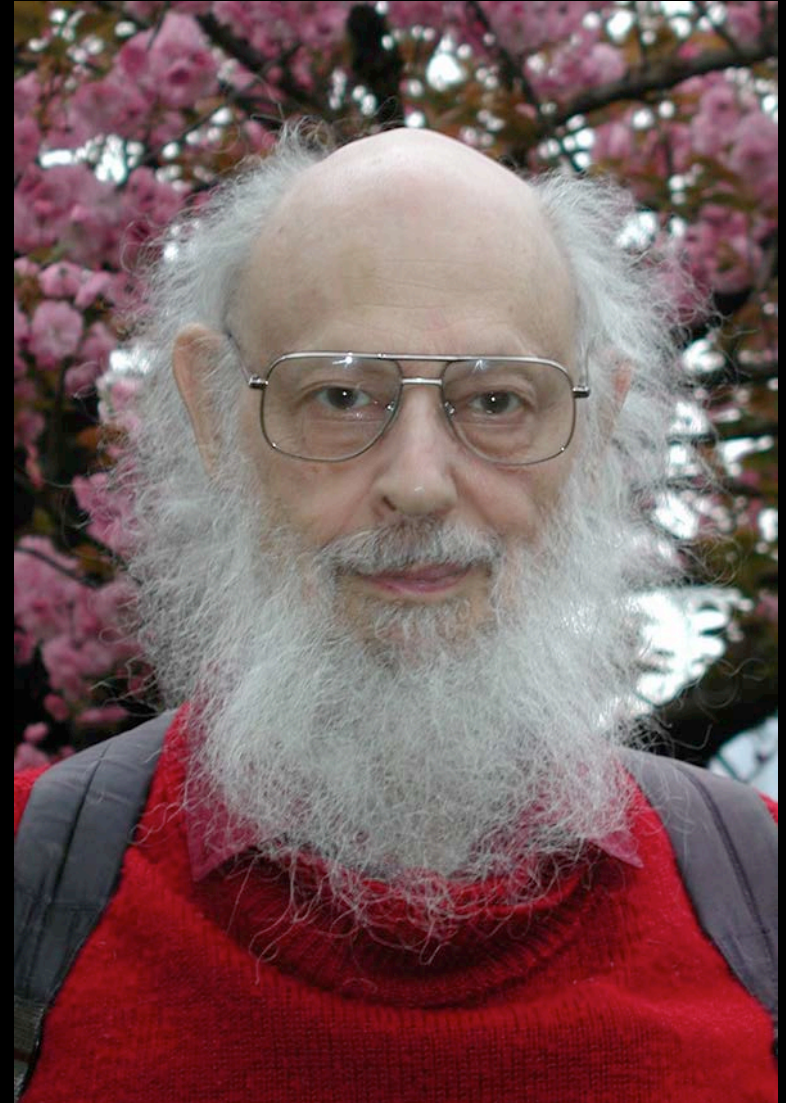
Conference Frequency

- Growing number of requests to hold IJCAI in other parts of the world
- IJCAI Trustees are considering moving to an annual or 18-month rotation
- We will discuss the issue at the IJCAI Business Meeting on Thursday at 13:00
- Your input is welcome!



In Memoriam

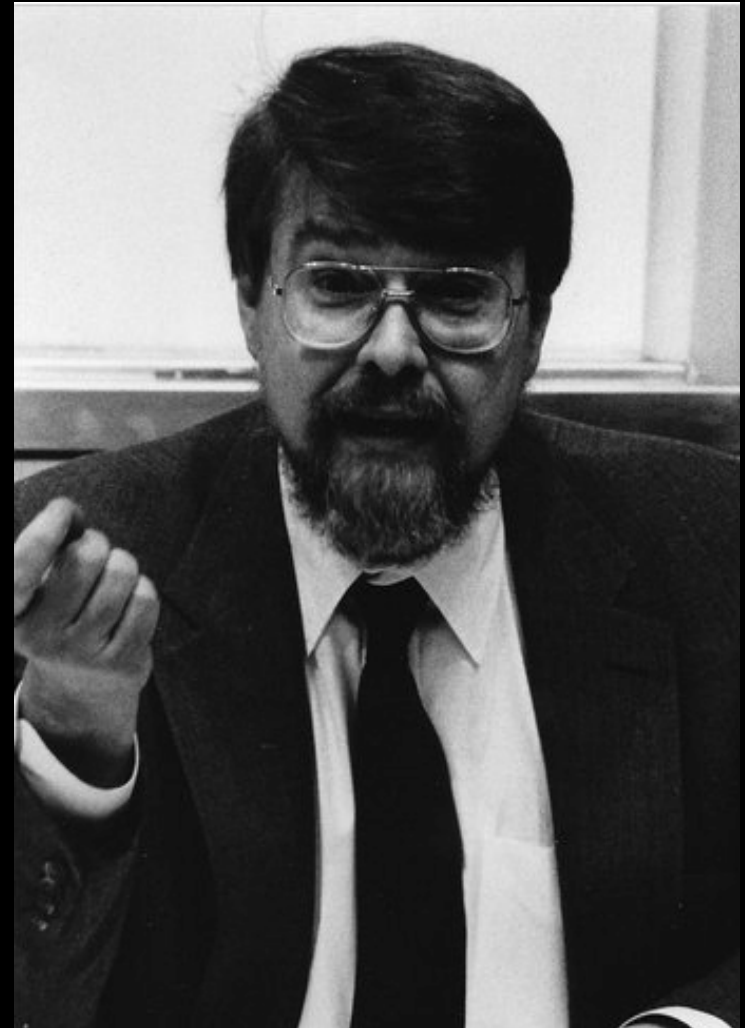
Ray Solomonoff



IJCAI-11

In Memoriam

David Rumelhart



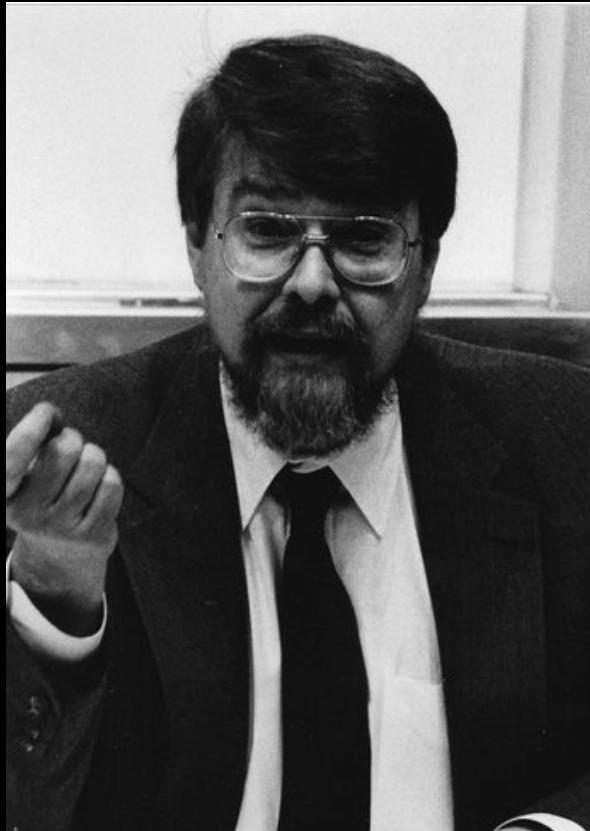


In Memoriam

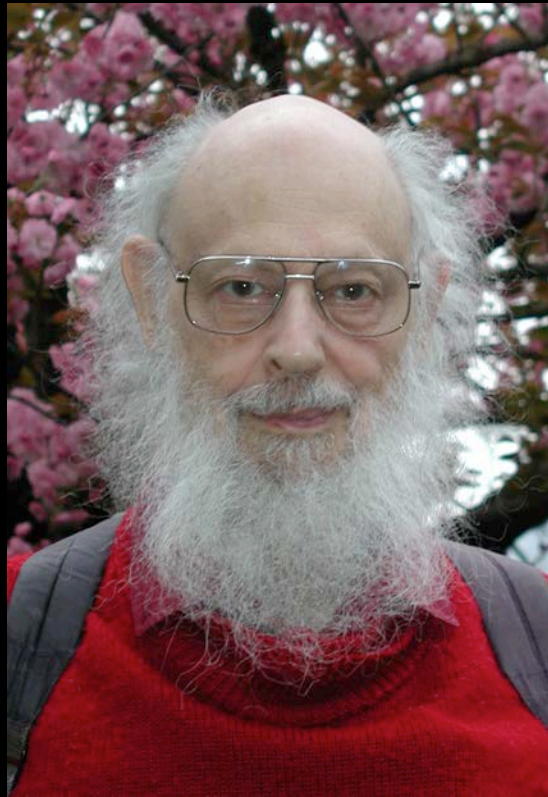
Sam Roweis



In Memoriam



David Rumelhart



Ray Solomonoff



Sam Roweis

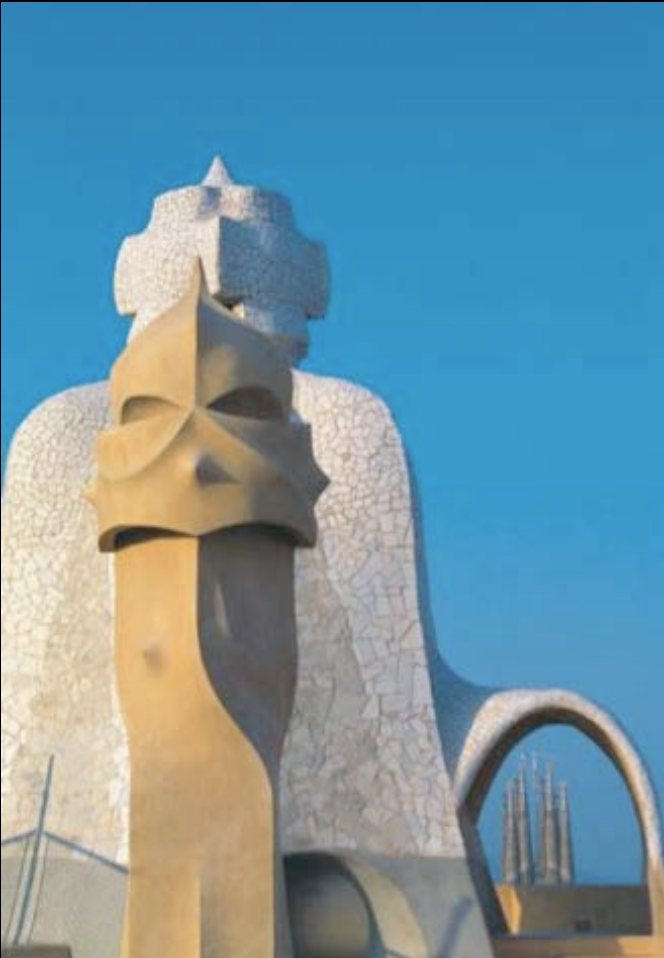


Local Arrangements Chair

Carles Sierra

IJCAI 11

Welcome to Barcelona!





Barcelona

- Top European metropolis in quality of life
- 6th most touristic city in the world
- 5th most preferred European city for business
- Large number of innovative centres
- High level of Entrepreneurship

LJCAI.11

The LAC team





Sponsorship

○ PLATINUM



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Other sponsors



Special thanks to
Pablo Noriega!

IJCAI-11



Architecture



IJCAI 11



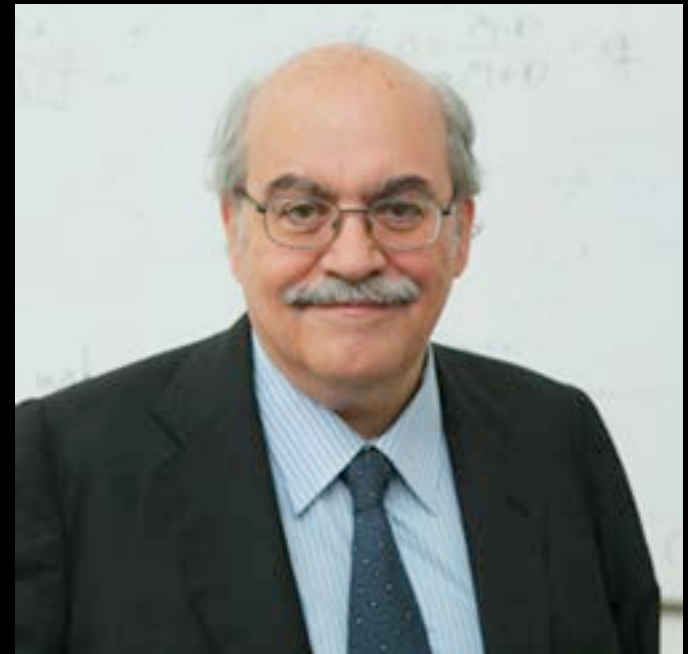
Creativity of AI researchers





Official welcome

- Professor Andreu Mas-Colell
- Minister of Economy and Knowledge
- Tomorrow at 8:30





Free Things

- Tutorials
- Banquet
- Student reception
- Raffle
- Palau de la Música
- Industry day
- Farewell party



Vice-president of ACIA

Beatriz López

IJCAI 2011

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President of AEPIA

Antonio Bahamonde

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IJCAI President

Hiroaki Kitano



IJCAI-11 Research Excellence Award

Robert Anthony Kowalski



Thursday, 6:20 pm, Plenary



IJCAI-11 Computer and Thought Award

Vincent Conitzer



Malte Helmert



Tuesday, 6:20 pm, Plenary

Tuesday, 7:05 pm Plenary



**IJCAI-11 Distinguished Service
Award
Raymond C. Perrault**





JAIR Editor-in-Chief

Shlomo Zilberstein



IJCAI-JAIR Best Paper Prize

2011 Prize

N. Nisan and A. Ronen (2007) “Computationally Feasible VCG Mechanisms” Volume 29, 19-47

2011 Honorable Mention

A. Fern, S. Yoon and R. Givan (2006) “Approximate Policy Iteration with a Policy Language Bias: Solving Relational Markov Decision Processes”, Volume 25, 75-118.



Program Chair

Toby Walsh



Keynote talks

Towards a Smarter Web

Wendy Hall



Tu 9am

*Designing Online Advertising
Markets*

Susan Athey



Wed 9am



Invited talks

*Rich Probabilistic Models
for Image
Understanding*

Daphne Koller



*Sun, Surf & Automation: A
Decade of Field Robotics in
Australia*

Hugh Durrant-Whyte



*Homo Heuristicus:
Why biased minds make
better decisions*

Gerd Gigerenzer



*Adventures in Scheduling:
Some trends in OR*

Mike Trick



*Open Information
Extraction at Web Scale*

Oren Etzioni



*The Games People Play
Revisited*

Jonathan Schaeffer





Best Paper track

- 49 talks + posters
 - Best papers from recent sister conferences:
 - *AAMAS, ACM Recommender, CHI, COLT, CP, ECML PKDD, ECSQARU, ICAPS, ICCBR, ICLP, ISWC, IUI, JELIA, KDD, KR, LPNMR, RSS, RuleML SAT, SoCS, TARK, UAI and UMAP*
 - JAIR 2010 & 2011 best papers
 - ECCAI 2010 thesis award



Technical track

- 1325 submissions from 59 countries
 - 227 talks + posters (17%)
 - 173 posters (13%)
 - Total: 400 papers (30%)
 - Detailed statistics Tu 8.30am



Distinguished Papers

- Selected by (subset) of Area Chairs

Nested Rollout Policy Adaptation for Monte Carlo Tree Search, Christopher D. Rosin

On the Decidability of Connectedness Constraints in 2D and 3D Euclidean Spaces, Roman Kontchakov, Yavor Nenov, Ian Pratt-Hartmann, Michael Zakharyashev

Unweighted Coalitional Manipulation under the Borda Rule Is NP-Hard, Nadja Betzler, Rolf Niedermeier and Gerhard J. Woeginger



Special track on: Integrated & Embedded AI

- Chair: **Qiang Yang**
 - 98 submissions
 - 13 talks + posters (13%)
 - 15 posters (15%)
 - Total: 28 papers (28%)



Industry Friday

- Eric Horvitz, Microsoft
- Carlos Domingo, Telefonica
- Samy Bengio, Google
- Francoise Soulie, KXEN
- Marc Torrens, Strands
- David Gondek, IBM
- Ricardo Baeza-Yates, Yahoo!

*Thanks to
Nuria Oliver
Industry Day Chair*



Video track

- Chair: **Peter Stone**
- 19 videos
 - Screened in coffee breaks
 - And in Room 111 from Tu to Thurs
- 4 finalists
 - Screened Tu 11.50 in Best Paper track
 - Vote for Best Video
 - Winner announced on Fri @ Farewell



Ramon Llull session

- Catalan philosopher from 13th Century
 - Invented Borda and Condorcet voting
 - Major influence on Leibniz
- Thurs 4-6pm
 - Two keynotes and panel on Llull
- And a book in your registration bag!

Thanks to Carles Sierra



Student participation

- Travel grants
 - AIJ/IJCAI >\$100,000 (139 participants, 29 countries)
 - Google \$1,800, NSF \$45,000
- Student reception
 - Thurs 7.30-8.30
- Doctoral consortium
 - Focus on ethics, all day Monday

Thanks to Maria Gini & Judy Goldsmith



Other events

- Trading agent competition
 - All day Tuesday
- General Game Playing Competition
 - Wed & Thurs
- Panel on *Funding opportunities for international research*
 - Wed 6.15pm
 - Representatives of NSF, EC, AFOSR & NICTA



Social events

- Banquet
 - Wed 7.30pm
- Student reception
 - Thurs 7.30-8.30pm
- Farewell event
 - Fri 4.30-5.30pm
 - iPad and other goodies to raffle





Instructions to authors!

- Talks
 - Arrive *before* the start of your session
 - Introduce yourself to chair
 - Speak for **17** minutes, leave 3 minutes for questions
 - Next speaker starts setting up computer in question time of previous speaker
- Posters
 - Set up before talks or during earlier break



Thanks

- 32 Area Chairs
- 426 Senior PC members
- 1666 PC members
- 4000+ authors



Shortlist for the *NICTA* Best PC & SPC awards

PC

Birte Glimm

Yevgeny Kazakov

Mantas Simkus

SPC

David Aha

Richard Booth

Patrik Haslum



Special thanks

- My wife & daughter

For giving me
the time to
put the Technical
Program together





Thank you

Spanish:

Queridos colegas y estudiantes, espero que este evento os sea provechoso

Catalan:

Gràcies per la vostra hospitalitat en aquesta ciutat meravellosa



Up Next

- Casparo, fragments of an Opera
 - Composed by the AI researcher Luc Steels
 - Libretto by neuroscientist Òscar Vilarroya
- Following the opera, there will be food and drinks downstairs
- Please remain seated while we change the stage

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