



*Welcome to*

*ECML/PKDD 2004*

*Community meeting*



## *A brief report from the program chairs*

- *Jean-Francois Boulicaut, INSA-Lyon, France*
- *Floriana Esposito, University of Bari, Italy*
- *Fosca Giannotti, ISTI-CNR, Pisa, Italy*
- *Dino Pedreschi, University of Pisa*





- *Scientific program*
  - 84 regular research paper presentations
  - 15 short research papers (posters) *(new)*
  - 11 demos *(new)*
  - 5 world-class invited talks
  - 10 workshops
  - 7 tutorials
  - *The Discovery Challenge*
- *Conference format (new)*



- *Social program*
  - *Welcome Party (gone)*
  - *Excursion to the historic town of Lucca*
  - *Conference Banquet (tomorrow, Thursday)*
  - *Farewell Party (Friday)*
- *Remember to use your coupon for t-shirts*

ECML/PKDD 2004

Pisa, Italy  
September 20-24, 2004

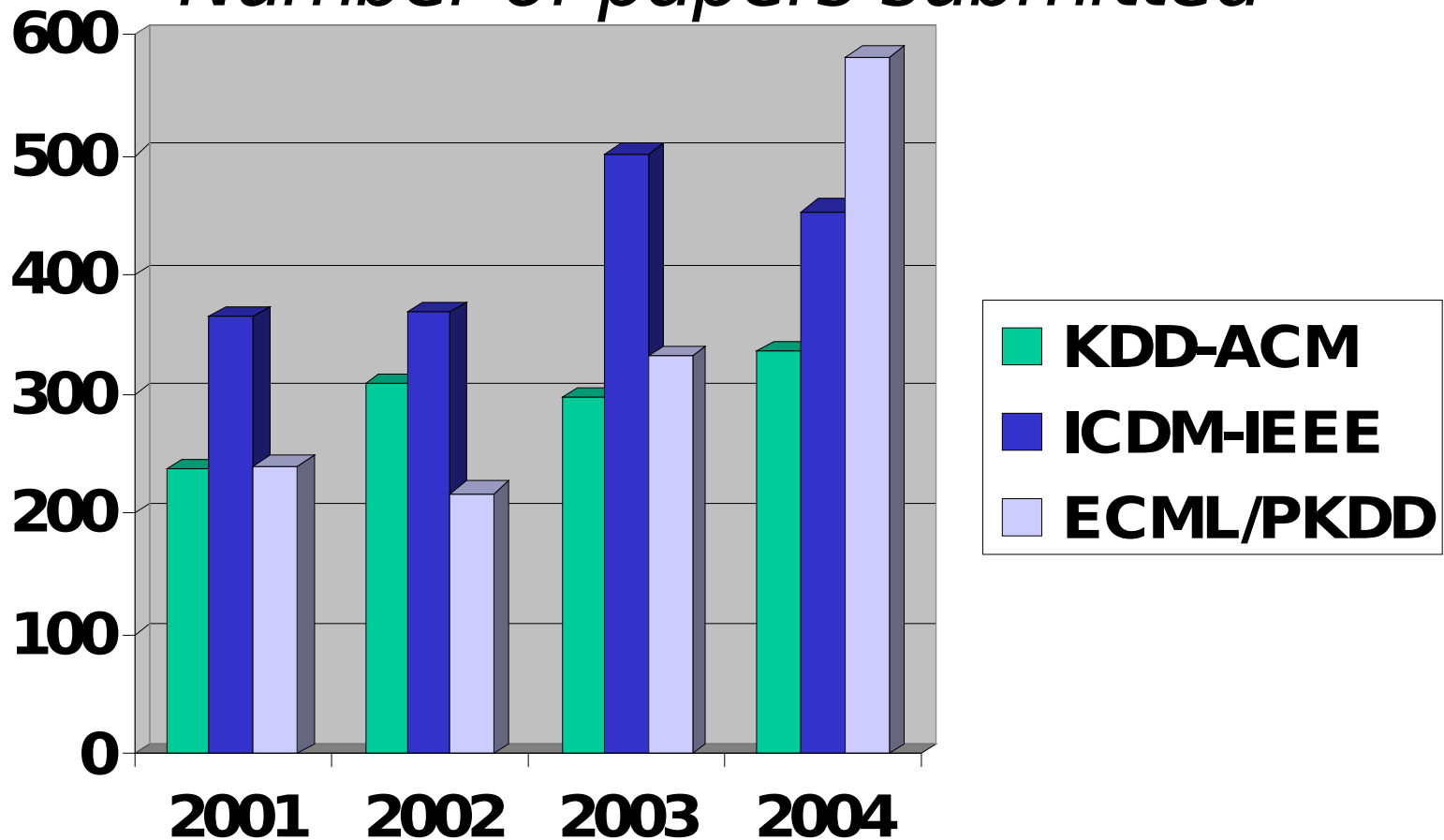


# ***ECML/PKDD 2004***

## ***Numbers***



*Number of papers submitted*





*581 papers submitted*

*- 280 ECML*

*-194 PKDD*

*-107 both*



## ***ECML accepted***

*45 regular, 6 posters*

## ***PKDD accepted***

*39 regular, 9 posters*

## ***Heavy review load:***

*3 reviews per paper*

*around 1,800 reviews in total*

*average load of 15 papers per reviewer*

*process handled with CyberChairPro*





- *Submissions from 42 countries*  
*(ICDM'03: 37 countries)*
- *Truly international*

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# ***ECML/PKDD 2004***

## ***Mining Submissions Data***



- Acceptance rate: Top-10 Countries*

Nationality	Submitted	Accepted	Acceptance Rate
Hungary	2	1	0,5
Slovenia	9	4	0,44
Singapore	7	3	0,42
Canada	21	7	0,33
Sweden	3	1	0,33
Germany	35	11	0,31
Netherlands	16	5	0,31
Switzerland	7	2	0,28
Israel	7	2	0,28
Japan	22	6	0,27



Nationality	Submitted	Accepted	Acceptance Rate
USA	94	17	0,18
France	39	4	0,1
China	38	3	0,07
Italy	37	8	0,21
Germany	35	11	0,31
Spain	27	2	0,07
Australia	26	4	0,15
Brazil	23	2	0,08
South Korea	23	2	0,08
Japan	22	6	0,27
UK	21	2	0,09
Canada	21	7	0,33
Netherlands	16	5	0,31
Finland	14	2	0,14
Portugal	14	1	0,07
Ireland	13	2	0,15
Belgium	11	2	0,18
Poland	10	1	0,1
Hong Kong	9	1	0,11
Slovenia	9	4	0,44
Greece	8	1	0,12

Nationality	Submitted	Accepted	Acceptance Rate
India	8	1	0,125
Iran	7	0	0
Singapore	7	3	0,42
Switzerland	7	2	0,28
Israel	7	2	0,28
Taiwan	6	1	0,16
Austria	4	1	0,25
Sweden	3	1	0,33
Ukraine	3	0	0
Romania	2	0	0
Russia	2	0	0
Tunisia	2	0	0
New Zeland	2	0	0
Hungary	2	1	0,5
Lithuania	2	0	0
Turkey	1	0	0
Mexico	1	0	0
Croatia	1	0	0
Algeria	1	0	0
Slovakia	1	0	0
Thailand	1	0	0



## *PKDD top-15 hot topics*

Topic	Freq
Algorithms and techniques - classification	75
Algorithms and techniques - rule discovery	53
Algorithms and techniques - clustering	52
Algorithms and techniques - frequent patterns	42
Foundations of data mining - knowledge (pattern) representation	33
Data pre-processing - dimensionality reduction	33
Innovative applications - mining bio-medical data	29
Mining different forms of data - text mining	28
Algorithms and techniques - statistical techniques and mixture models	25
Innovative applications - web content	24
Mining different forms of data – temporal, spatial, and spatio-temporal data mining	22
Foundations of data mining - statistical inference and probabilistic modelling	21
Mining different forms of data - graph	21
Pattern post-processing - knowledge interpretation and use	18
Pattern post-processing - visualization	18



- *PKDD high acceptance topics*

Topic	Accepted	Out of	Ratio
Mining different forms of data - temporal, spatial, and spatio-temporal data mining	10	22	0,45
Algorithms and techniques - distributed and parallel algorithms	2	5	0,4
Data mining and databases - data mining query optimisation	1	3	0,33
Mining different forms of data - text mining	8	28	0,28
Algorithms and techniques - privacy preserving data mining	2	7	0,28
Pattern post-processing - knowledge interpretation and use	5	18	0,27
Pattern post-processing - quality assessment	3	11	0,27
KDD process and process-centric data mining - standards for the KDD process	1	4	0,25
Innovative applications - mining governmental data	2	8	0,25
Innovative applications - mining bio-medical data	7	29	0,24



## *ECML top-15 hot topics*

Topic	Freq
statistical approaches	60
unsupervised learning	51
learning from text and web	45
artificial neural networks	44
knowledge acquisition and learning	40
information retrieval and learning	37
decision tree	35
kernel methods	34
machine learning of natural language	30
reinforcement learning	30
instance based learning	30
evolutionary computation	29
bayesian networks	26
meta learning	23
evaluation metrics and methodologies	22



- *ECML high acceptance topics*

Topic	Accepted	Out of	Rate
reinforcement learning	10	30	0,33
kernel methods	8	34	0,23
evaluation metrics and methodologies	5	22	0,22
decision tree	7	35	0,2
planning and learning	1	5	0,2





- *Classifying submissions*

- *6 attributes*

- *Paper No.:* ordered by submission date
    - *# of Authors*
    - *# of Characters in Title*
    - *# of Topics*
    - *Multiple Nationality (yes/no)*
    - *Acceptance/Rejection (Target Variable)*

- *Software: SPSS Clementine and  
Angoss Knowledge Studio*



- *ECML data: most important feature*  
*# of Characters in Title (the less the better)*  
*[confirms ICDM'03 mining submission data]*
- *PKDD data: most important feature*  
*Paper No. (low numbers are very bad)*  
*[confirms ICDM'03 mining submission data]*



- *Multiple Nationality = yes is a good feature for PKDD but not for ECML*
- *Single author is*
  - *very bad for PKDD (2 accepted out of 50, 4%)*
  - *Not so bad for ECML (10 accepted out of 86, 11.6%)*
- *Having 5 authors is*
  - *very good for PKDD (5 accepted out of 10)*
  - *very bad for ECML (0 accepted out of 3)*
- *Too much topics is bad:*
  - *ECML, # of Topics  $\geq 4$  (0 accepted out of 29)*
  - *PKDD, # of Topics  $\geq 5$  (2 accepted out of 25)*



- *A strong ECML rule*

*# of Characters in Title > 79 => Rejected*  
*(Confidence 0.941, Support 118)*

- *A strong PKDD rule*

*Paper No. ≤ 144 => Rejected*  
*(Confidence 0.923, Support 144)*



ECML/PKDD 2004

Pisa, Italy  
September 20-24, 2004

A panoramic view of the city of Pisa, Italy, showing the Arno river, the Leaning Tower, and the surrounding urban landscape under a warm, orange-toned sky.

# ***ECML/PKDD 2004***

## ***Registration figures***



- *Number of registered participants*
  - 320
  - Plus 22 student grants
  - Plus 15 invited speakers/tutorialists
  - Plus 20 students from local research groups
- *No student fee, but low early and regular registration fee, many student grants, and free access to every event*



***Feedback  
from the community?***

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***Next ECML/PKDD***





- *Call for Expression of Interest*
- *Report from steering committee meeting (September 21, 2004)*
- *Presentation of Eol for next ECML/PKDD*
- *Vote and decisions*



- **Call for Eol – two steps**
  - Short proposal and Full proposal
- **Objectives**
  - Preserve the increasing success of ECML/PKDD and consolidate it on the international scene
  - Pursue stronger integration/interchange between ML and KDD communities
  - Ensure scientific authoritativeness of chairs within the ML/KDD community
  - Ensure organization reliability of conference organizers
  - Consolidate support to conference organization



- Report from the ECML/PKDD steering committee meeting of September 21 extended to ICML 2005 chairs (Dzeroski and Wrobel – De Raedt is absent)
  - Dates for next ECML/PKDD
  - Next Call for EoI
  - Backing association



- Dates
  - Early October 2005 is confirmed as a good trade-off
- Next Call for EoI
  - Should be for two year (i.e., for ECML/PKDD 2006 **and** 2007)
- Backing association
  - Size of the event, end of KDNet require a light-weight association
  - Jus a safe box to transfer funds to next conferences
  - Arno Siebes in charge of preparing it



- Expressions of Interest
  - Bath, England
    - (Singh)
  - Berlin, Germany
    - (Fuenkranz, Scheffer, Spiliopoulou, only for March 2006 or September 2006, hence withdrawn)
  - Granada, Spain
    - (Sanchez)
  - Porto, Portugal
    - (Brazdil)
  - Warsaw, Poland
    - (Koronacki)



- Presentation of Expressions of Interest for early October 2005
  - Bath, England
    - (Singh)
  - Granada, Spain
    - (Sanchez, absent, presented by Fosca)
  - Porto, Portugal
    - (Brazdil)
  - Warsaw, Poland
    - (Koronacki)



- First vote: two Eol's selected for ballot
  - Porto, Portugal
  - Warsaw, Poland
- Ballot
  - Porto wins for one vote!
  - 49-48, confirmed after recount
- Congrats to both Porto and Warsaw!
- See you in Porto next year!