

Journals & Conferences in Data Mining: Too Many or Too Few?



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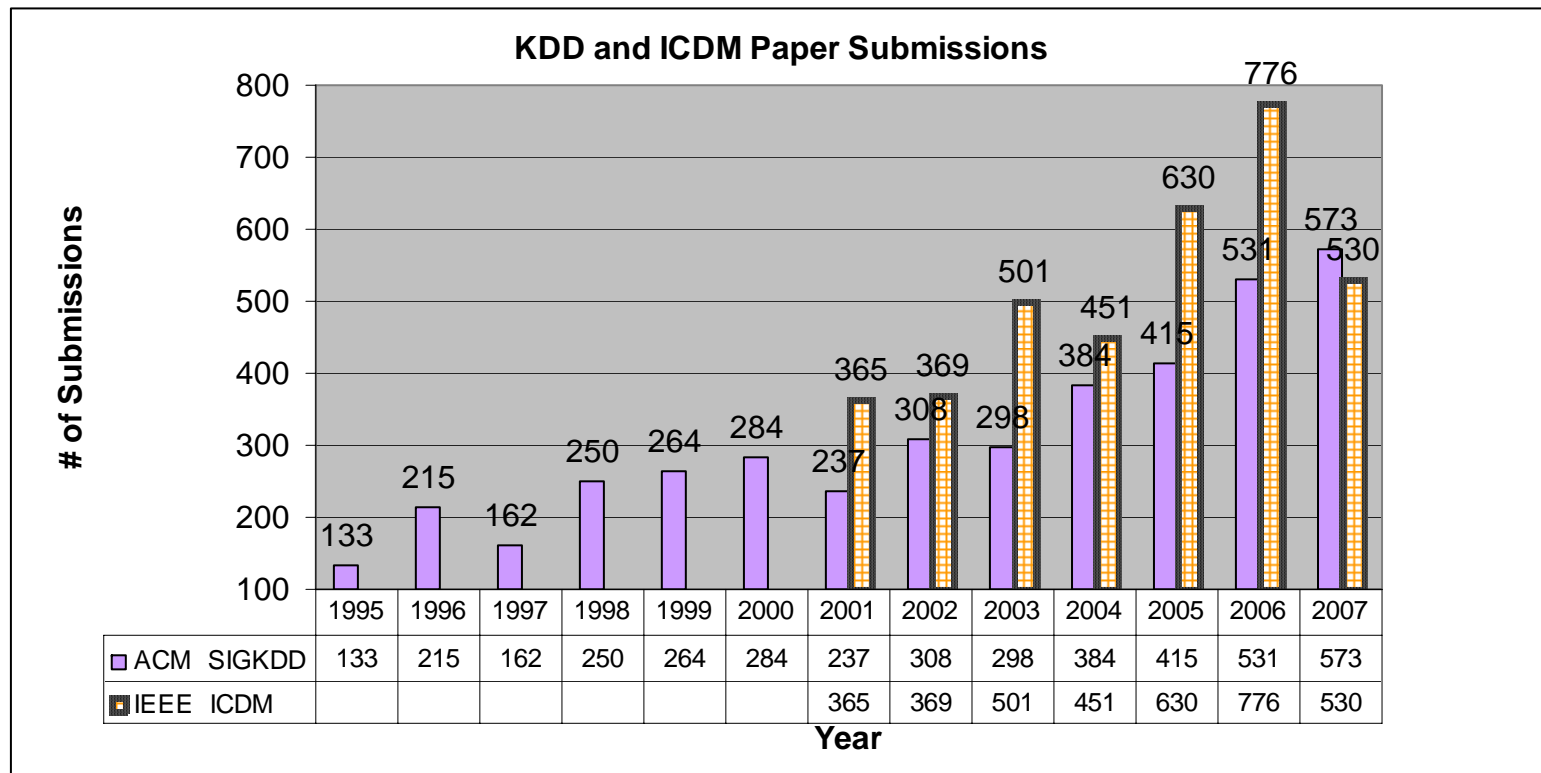
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Major Conferences in Data Mining

- **KDD** (since 1995, <http://www.sigkdd.org/conferences.php>), the ACM SIGKDD International Conference on Knowledge Discovery and Data Mining
- **ICDM** (since 2001, <http://www.cs.uvm.edu/~icdm/>): the IEEE International Conference on Data Mining
- **SDM** (since 2001): the SIAM International Conference on Data Mining
- **PKDD** (since 1997): the European Conference on Principles and Practice of Knowledge Discovery in Databases
- **PAKDD** (since 1997): the Pacific-Asia Conference on Knowledge Discovery and Data Mining

ACM KDD vs. IEEE ICDM





Data Mining: Major Journals

- *IEEE Transactions on Knowledge and Data Engineering* (**TKDE**)
 - a Tier-1 journal in computing, with a focus area in data mining
- *IEEE Transactions on Pattern Analysis and Machine Intelligence* (**TPAMI**)
 - another Tier-1 journal by the IEEE Computer Society
 - with **the highest impact factor** among data mining, machine learning and pattern recognition journals
- *Data Mining and Knowledge Discovery* (DMKD)
 - excellent reputation in the data mining community
- *Knowledge and Information Systems* (KAIS)
 - best ranked papers from ICDM
- *ACM Transactions on Knowledge Discovery from Data* (TKDD)
 - established in 2007, selected papers from KDD

Focused Areas in Knowledge & Data Engineering

IEEE TRANSACTIONS ON
**KNOWLEDGE AND
DATA ENGINEERING**

- Data Mining
 - Knowledge Discovery in Databases (KDD)
 - Intelligent Data Analysis
- Database Systems
 - Data Management
 - Data Engineering
- Knowledge Engineering
 - Semantic Web
 - Knowledge-Based Systems
 - Soft Computing

TKDE Submission Numbers and Acceptance Rates

2000	195 - Regular	34.40%
2001	294	25.50%
2002	233	24.00%
2003	355	26.40%
2004	347	21.00%
2005	480	30.00%
2006	588	23.00%
2007	625	being accpt'd
Year	New Submission #	(Current) Accpt Rate

Too Many or Too Few?

- Competition can only help – hence be supportive
 - Only the fittest will survive
- Comparison requires detailed studies
 - “The blind men and the elephant”
- More journals and more conferences will promote the field
 - An individual does not have to spread too thin
- **What to do to move the data mining field forward?**
 - More PageRank-like algorithms and more Google-like companies?