



The workshop on Knowledge, Language, and Learning in Bioinformatics (KLLBI)

in conjunction with The Tenth Pacific Rim International Conference on
Artificial Intelligence (PRICAI 2008), December 15-17, 2008, Hanoi, Vietnam

PURPOSE and SCOPE

To handle the torrents of data yielded by high-throughput experiments like genome sequencing and gene expression measurement, today's biologists are expanding their scientific capability by computer and internet. Huge amount of biological data are well-organized, stored, and searched at database sites. Due to the rich information stored in databases, statistical methods including machine learning and data mining are of increasing importance. In addition to such intelligent algorithms, text data and ontologies are strongly supporting today's biologists. For instance, recent application software for gene expression analysis tends to combine statistical algorithms (clustering, PCA, etc.), concepts represented as ontologies (e.g. Gene Ontology), and text data from literature (PubMed, etc.) to help scientists' data analysis and hypothesis verification. Because of this situation, the workshop aims to provide a forum for more detailed discussion on the following computational technologies (but not limited) applied to biological or medical data.

- Knowledge representation
- Knowledge management
- Knowledge discovery
- Data mining
- Text mining
- Text classification
- Natural language processing
- Ontology construction
- Ontology utilization
- Machine learning

SUBMISSION GUIDELINE

Format: Springer LNAI format
(<http://www.springer.com/computer/lncs?SGWID=0-164-7-72376-0>)

Length: 10-15 pages

Submission: Please send your manuscript in PDF to the workshop organizer (ken@t.kanazawa-u.ac.jp) by the submission deadline.

IMPORTANT DATES

Submission deadline:	September 30
Notification of acceptance:	October 15
Camera ready deadline:	November 4
Workshop date:	December 16

REVIEW

All papers submitted to this workshop will be reviewed by at least two reviewers. Acceptance will be based primarily on originality and contribution.

PUBLICATION

All the accepted *and* presented papers will be included in the proceedings available on-site during the workshop. **To be included in the proceedings, at least one of the authors must confirm his/her attendance to the workshop and present the paper.** Authors of accepted papers must complete a confirmation form and submit it with the camera-ready version of the paper.

Selected best papers will be published as the special issue of this workshop in Journal of Software (<http://www.academypublisher.com/jsw/>) after the extension so that they contain at least 30% of new material.

WORKSHOP ORGANIZERS

Kenji Satou (Kanazawa University, Japan)
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WORKSHOP WEBSITE

<http://www.jaist.ac.jp/~ken/KLLBI/>