

## **SPECIAL TRACK: Temporal Pattern Discovery in Biomedicine**

### **CALL FOR PAPERS**

(PDF Format)

Growing volumes of time-oriented data (such as those from longitudinal patient databases and time-course genomic experiments) now confront healthcare practitioners and biomedical investigators, who frequently face difficulty identifying temporal relationships essential to understanding biomarkers, treatment responses, and related phenomena. There is growing need for computer-based methods that handle complex relationships among large numbers of time-oriented variables, that allow analysis of such data using domain knowledge and that compare or integrate those findings with existing knowledge. The aim of the special track is to highlight knowledge-based, computational intelligence, data mining and database methods for temporal pattern discovery and to promote a common understanding of the similarities and differences of various approaches.

We welcome the submission of original papers that present significant advances for representing, analyzing, and/or reasoning about time-varying data used for temporal pattern discovery. Topics of special interest include, but are not restricted to, the following:

- Computational intelligence approaches to temporal decision-making
- Data mining of episodic and interval-based relations among biomedical data
- Text mining of temporal relationships in clinical narratives and scientific articles
- Methods for biomarker discovery in combined clinical and genomic databases
- Formal representations of temporal mining results, including use of ontologies
- Database methods for querying complex temporal patterns

Unlike workshops, where position papers and reports on initial and intended work are appropriate, papers selected for a special track should report on significant unpublished work suitable for publication as a conference paper. More information about the symposium, registration fees, and venue can be found here: <http://cbms2006.ece.byu.edu>.

### **IMPORTANT DATES**

January 31, 2006	Submission of (6-page, maximum) paper
March 1, 2006	Notification of acceptance
April 5, 2006	Final camera-ready paper due
April 8, 2006	Pre-registration deadline
May 22, 2006	Hotel room reservations due

**You must pre-register to have your paper published in the proceedings.** If you only plan to attend and are not submitting a paper, pre-registration is still strongly encouraged. This conference is space-limited, and registration may not be available on-site.

## SUBMISSION PROCEDURES

No hardcopy submissions are being accepted. Electronic submissions of original technical research papers will only be accepted in PDF format. File size is limited to 2 MB. Use a maximum of **six A4 pages**, including figures and references. Include one cover sheet, stating the track title (Special Track on Temporal Pattern Discovery in Biomedicine), paper title, authors, technical area(s) covered in the article, corresponding author's information (telephone, fax, mailing address, e-mail address), and your preference for oral or poster presentation. Author names should appear only on the cover sheet, not on the paper.

Submit your manuscript no later than January 31, 2006. Authors will be notified of acceptance by March 1, 2006 after a review process by three independent experts. Each accepted paper to the Special Track on Temporal Pattern Discovery in Biomedicine will be published in the conference proceedings by IEEE CS Press, conditional upon the author's advance registration. Papers that were not accepted by the Program Committee of the track can be considered for publication as regular submissions by the General Program Committee of IEEE CBMS 2006.

Please note that the format of IEEE CBMS 2006 proceedings will be the [IEEE Computer Science Press 8.5x11-inch format](#). Submission is encouraged in this format. For more details please see the website of IEEE CBMS 2006: (<http://cbms2006.ece.byu.edu/how.html#submission>).

All submissions will be done electronically via the CBMS web submission system.

## TRACK CO-CHAIRS

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