

Astronomical Data Analysis (ADA) (AM309)

Part of SPIE's International Symposium on Optical Science and Technology
29 July– 3 August 2001 • San Diego Convention Center • San Diego, California USA

Conference Chairs: **Jean-Luc Starck**, Stanford Univ.; **Fionn D. Murtagh**, Queen's Univ. of Belfast (UK)

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Early 21st century astronomy is exciting. Large consortium projects are on the order of the day: Macho, 2dF, Sloan, Vista, and others. We are in a new era of big telescopes, big surveys, big information services (CDS, ADS, NED, and others). Our ideas for data analysis and knowledge extraction need to be similarly big. This ADA conference will harness the collective ideas of the foremost researchers dealing with the path leading from astronomical data, through information, to knowledge.

Times are changing for astronomical data analysis. Astronomical data handling has always been in the forefront of computational developments, but it shares its vanguard role with other areas of science and technology. Consider medical imaging, Earth observation, or data mining. A serendipitous objective of this conference is to list some of the "Grand Challenges" which are unique to contemporary astronomical data analysis.

Topics include:

- filtering, deconvolution, compression, detection, ...
- multidimensional data analysis: multispectral and multitemporal data, catalogs
- databases, information retrieval, visualization, knowledge discovery
- Virtual Observatory, computational grids
- data mining: sky survey data analysis, detection, classification
- data modeling, background estimation, cosmic ray removal, vision models
- autonomous agents, distributed computing environments, ...

Abstract Due Date: 2 January, 2001
Manuscript Due Date: 2 July, 2001

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Submissions imply the intent of at least one author to register, attend the symposium, and present the paper (either orally or in poster format).

Your abstract must include all of the following:

1. **SUBMIT TO:** AM309, STARCK, MURTAGH
2. **SUBMIT EACH ABSTRACT TO ONE CONFERENCE ONLY** Astronomical Data Analysis (ADA) (AM309)
3. **ABSTRACT TITLE**
4. **AUTHOR LISTING** (principal author first)
For all authors: First (given) name (initials not acceptable), Last (family) name, Affiliation, Mailing address, Telephone, Fax, and Email address.
5. **PRESENTATION**
Indicate your preference for "Oral Presentation" or "Poster Presentation." Final placement is subject to chairs' discretion.
6. **ABSTRACT TEXT**
Approximately 250 words.
7. **KEYWORDS**
List a maximum of five keywords.
8. **BRIEF BIOGRAPHY** (principal/presenting author)
Approximately 50 words.

Conditions of Acceptance

- Authors are expected to secure registration fees and travel and accommodation funding, independent of SPIE, through their sponsoring organizations before submitting abstracts.
- Only original material should be submitted.
- Commercial papers, descriptions of papers with no research/development content, and papers where supporting data or a technical description cannot be given for proprietary reasons will not be accepted for presentation in this symposium.
- Abstracts should contain enough detail to clearly convey the approach and the results of the research.
- Government and company clearance to present and publish should be final at the time of submittal.
- Applicants will be notified of acceptance by mail no later than 7 May, 2001. Early notification of acceptance will be placed on the SPIE Web site the week of 16 April, 2001 at www.spie.org/info/am/

Paper Review

To ensure a high-quality conference, all abstracts and *Proceedings of SPIE* papers will be reviewed by the Conference Chairs for technical merit and content.

Instructions for Submitting Abstracts

All authors are STRONGLY ENCOURAGED to submit their abstracts by the due date using the Web form located at URL: www.spie.org/info/am/

If World Wide Web access is not available, please choose only one of the following options:

- E-MAIL each abstract separately to: abstracts@spie.org in ASCII text (not encoded) format. IMPORTANT: to ensure receipt and proper processing of your abstract, the Subject line must include only the following:
SUBJECT: AM309, STARCK, MURTAGH
- or MAIL three copies of your abstract to:
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- or FAX one copy to SPIE at 360/647-1445 (send each abstract separately).

Publishing Policy

Manuscript due dates must be strictly observed. Whether the conference volume will be published before or after the meeting, late manuscripts run the risk of not being published in the *Proceedings of SPIE*. The objective of this policy is to better serve the conference participants and the technical community at large. Your cooperation is appreciated by all.

Oral or Poster Presentation

Instructions for Oral and Poster presentations will be included in your author kit. All Oral and Poster presentations are included in the *Proceedings of SPIE* and require a manuscript.

Proceedings of SPIE

These conferences will result in full-manuscript editor-reviewed volumes published in the *Proceedings of SPIE* that can be ordered through the Advance Technical Program. Camera-ready manuscripts are required of all accepted applicants and must be submitted in English by 2 July, 2001. Copyright to the manuscript is expected to be released for publication in the *Proceedings of SPIE*. **Note: If an author does not attend the meeting and make a presentation, the chair may choose not to publish the author's manuscript in the conference volume.** Papers published are indexed in leading scientific databases including INSPEC, Compendex Plus, Physics Abstracts, Chemical Abstracts, International Aerospace Abstracts, and Index to Scientific and Technical Proceedings.

Participant Registration Fee

Authors and coauthors are accorded a reduced symposium registration fee. Participants who attend the symposium and pay the full Author registration fee may also apply for a six-month, nonvoting membership in SPIE if never before a member (membership includes *OE Reports* and choice of SPIE's Journals). This offer does not apply to student Authors. Details are available at the on-site registration desk or by contacting SPIE Member Services at membership@spie.org; or call 360/676-3290.