

PRELIMINARY CALL FOR PAPERS • FUSION 2002

Sponsored by International Society of Information Fusion

The Fifth International Conference on Information Fusion

8-11 July 2002 · Loews Annapolis Hotel · Annapolis, MD (Washington DC Area), U.S.A.

Sponsored by ISIF, IEEE, and ONR

www.fusion2002.org

Authors are invited to submit papers describing advances, applications, and ideas in information fusion, both theory and application, with submissions on non-traditional topics being encouraged. All accepted papers will be published in the conference proceedings, to be available at the conference site. The conference will also feature plenary talks and tutorials on topics of interest.

TOPICS OF INTEREST

A. Theoretical and technical advances

- A.1. Information modeling and learning
- A.2. Probability and statistics
- A.3. Fuzzy sets and rough sets
- A.4. Fuzzy logic and expert systems methods
- A.5. Possibility theory
- A.6. Evidential reasoning
- A.7. Random sets
- A.8. Neural networks
- A.9. Genetic algorithms
- A.10. Neuro-mimetic approaches
- A.11. Artificial intelligence
- A.12. Logic
- A.13. Bayesian methods
- A.14. Stochastic methods
- A.15. Processing of imprecise information
- A.16. Nonlinear estimation and filtering
- A.17. Semiotics
- A.18. Other emerging methodologies

B. Algorithms and systems

- B.1. Target detection and tracking
- B.2. Target recognition and classification
- B.3. Data association
- B.4. Sensor registration
- B.5. Image or sensor data fusion
- B.6. Pattern recognition
- B.7. Machine intelligence
- B.8. Database fusion
- B.9. Knowledge-based systems
- B.10. Data mining
- B.11. Sensor or resource management
- B.12. Valuation-based systems
- B.13. Integrated systems
- B.14. Distributed systems
- B.15. System design
- B.16. Computer network security
- B.17. Algorithms and performance
- B.18. Hardware and software issues

C. Applications

- C.1. Radar and communications
- C.2. Signal and image processing
- C.3. Defense systems
- C.4. Robotics and control
- C.5. Manufacturing and automation
- C.6. Diagnostics and fault detection
- C.7. Vehicles and transportation systems
- C.8. Navigation, positioning and guidance
- C.9. GPS technologies
- C.10. Economy, business and finance
- C.11. Surveillance and situation assessment
- C.12. Remote sensing and geo-information
- C.13. Medicine, biology, and diagnostics
- C.14. Information systems and Decision-aid
- C.15. Data acquisition and testing
- C.16. Machine vision and learning
- C.17. Security and safety applications
- C.18. Other applications

Submissions on others related topics and proposals for special sessions are also welcomed.

LOCATION:

Loews Annapolis Hotel (<http://www.loewsannapolis.com>) is a hotel with an AAA Four-Diamond award for excellence. It is located in the historic center of Annapolis, within easy walking distance of the waterfront, area attractions, shops, and restaurants. Annapolis is only about thirty miles from Washington D.C. and twenty miles from Baltimore. Inter-city public transportation is available. Also, the hotel provides a variety of tourist programs, including sightseeing of many attractions of Washington DC and Baltimore. There are also a number of local attractions in the historic district of Annapolis, the Annapolis City Dock and the US Naval Academy.

SUBMISSION INSTRUCTIONS:

□ Regular Papers:

Summary Submission. Authors should submit a 300-word (maximum) summary of their paper with an identified topic area above by 15 November 2001. The summary should clearly state the significance of the problem and identify their contribution to the field. Each summary should include an address for correspondence (including phone, fax, and email). Submissions should be made electronically (ASCII text format only) on the Fusion 2002 web site (www.fusion2002.org).

Draft Paper Submission. Papers are required by the due date of 1 February 2002 for review by the technical program committee. All papers will be submitted electronically through the Fusion 2002 web site. Each paper should be a maximum of 8 pages; MS Word and LaTeX style guides will be provided on the web site (www.fusion2002.org).

Submission Process. Authors should visit the conference web site and follow the instructions to submit their summaries and papers before the due date. Papers must be submitted electronically using PS or PDF formats. For reference, the following information must be submitted at the web site with each paper: (1) paper title and topic number; (2) oral or poster presentation preference (subject to availability in the agenda); (3) name of authors and affiliations (including address, phone, fax, and email); (4) abstract of 300-500 words; (5) up to 6 keywords; (6) a short biography (at least for the presenting author) to be put on Fusion 2002 Web site.

Paper Acceptance. Papers will be evaluated for originality, significance, clarity, and scientific soundness. Each paper will be refereed by 2–3 researchers. Notification of accepted papers will be made by 1 April 2002. After notification, authors may submit updated papers through the final due date of 1 May 2002. All accepted papers will be published in the conference proceedings and CD-ROM, to be available at the Conference.

□ Invited Sessions:

Proposals for invited sessions are also solicited. Proposers will serve as session chairs. Session organizers are expected to collect and review summaries of papers in their proposed session (6 papers per session). They should submit a one-paragraph theme for their session plus a list of papers, paper abstracts, authors and their contact information to kiruba@ieee.org by 1 February 2002. See the web site for additional information.

□ Student Paper Program:

Fusion 2002 will feature a Student Paper Program to encourage involvement of young engineers and scientists in the development of information fusion. Participation details will appear on the web site (www.fusion2002.org)

IMPORTANT DEADLINES:

- Summary due: 15 November, 2001
- Invited sessions due: 1 February 2002
- Submission of draft papers: 1 February 2002
- Notification of acceptance: 1 April 2002
- Camera ready papers due: 1 May 2002
- Conference: 8–11 July 2002

CONFERENCE ORGANIZERS:

- General Chair: X. Rong Li (Univ. of New Orleans, USA)
- Advisory Chair: Chee Chong (Booz Allen & Hamilton, USA)
- Steering Chair: Dale Blair (Georgia Tech Research Institute, USA)
- Technical Program Co-Chairs: Ben Slocumb (Georgia Tech Research Institute, USA) and Thia Kirubarajan (McMaster Univ., CAN)
- International Organizing Committee: K. C. Chang (George Mason University, USA)
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- Web Site Administrator: Tammy Williams (Georgia Tech Research Institute, USA)