



# CALL FOR PAPERS

## 4<sup>th</sup> International Conference on

# Recent Advances in Space Technologies

## Space for the Developing World

# RAST 2009

11-13 June 2009, Istanbul, TURKEY

[www.rast.org.tr](http://www.rast.org.tr)



### Organized by:

Aeronautics and Space Technologies Institute (ASTIN), Turkish Air Force Academy, Turkey  
Istanbul Technical University, Turkey  
Boğaziçi University, Turkey  
Marmara University, Turkey  
Bahçeşehir University, Turkey  
Istanbul Commerce University, Turkey  
Golden Horn University, Turkey  
Yeditepe University, Turkey

### In Technical Co-operation with:

IEEE Aerospace & Electronic Systems Society  
IEEE Geoscience & Remote Sensing Society  
AIAA (American Inst. for Aeronautics & Astronautics)

### Sponsored by:

TÜBİTAK (Scientific & Tech. Res. Council of Turkey)

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Major General Sinan Şanlı  
(Commander, TuAF Academy)

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Alberto Moreira (DLR, IEEE GRSS)

### Invited Speakers (tentative):

Murad Bayar (SSM-UDI)  
Shahid Habib (NASA)  
Mazlan Othman (UNOOSA)  
Hong-Yul Paik (KARI)  
Klaus Schilling (Uni. Wuerzburg)  
Keiji Tachikawa (JAXA)  
Edward Tunstel (JHU-APL)  
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### Special Sessions Co-chairs:

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Seyhan Onbaşıoğlu (ASTIN and İTÜ)  
Zafar Taqvi (IEEE-AESS)

### Publications Co-Chairs:

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### Exhibition Comm. Chair:

Esra Toğrul Gücüyener (TOC)

### Publicity Chair:

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Cengiz Toklu (Yeditepe Univ.)  
Özalp Vayvay (ASTIN and Marmara Univ.)  
Şenay Yalçın (Kemerburgaz Univ.)  
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**Preamble:** RAST (Recent Advances in Space Technologies) Conferences have now become a traditional biennial event with worldwide participation. The fourth RAST Conference or RAST 2009 will be held again in Istanbul on 11-13 June 2009. As before, it is the mission of the organizers to make RAST 2009 a premier event in space technology developments especially those on the way to near future deployment. RAST Conferences are open to all areas of space, but each conference has a different theme. RAST 2009 will carry the theme: SPACE FOR THE DEVELOPING WORLD.

**Objectives:** RAST2009 has the main objective of providing a forum for the presentation and review of recent developments in space technologies especially emphasizing the developing world.

**Participants:** The conference should be attractive for participants coming both from technical and management/policy backgrounds, including engineers, academicians, government officials, space company managers, businessmen, educators, and students.

**Topics:** In general, contributions regarding all aspects of recent developments in space technologies are welcome. In particular presentations addressing the specific theme of RAST2009 are welcome. Papers may fall under, but not be limited to the following topics:

- Space technology utilization for development and societal well being.
- How non-space-faring nations can reap the benefits of space.
- International cooperation, especially among space-faring and developing countries.
- Space technologies that contribute to security, considering all aspects and threats, natural, man-made, humanitarian etc.
- Earth observation projects and programs geared especially toward prediction, mitigation monitoring of natural disasters. (earthquakes, floods, forest fires, etc.)
- New remote sensing technologies and applications, i.e. hyperspectral sensing, SAR, applications in meteorology, environment, agriculture, etc
- Developments in global positioning, interoperability, new applications
- Developments in new space communication techniques, higher frequencies and bandwidths
- Small satellites, micro, nano and pico satellites, cubesat developments
- New launch systems and ventures, especially for small spacecraft
- Design and construction of space structures, materials
- Energy from Space
- New and novel instrumentation for various spacecraft functions, including attitude determination and control, power management, communication etc.
- Scientific applications, near Earth space, deep space, microgravity sciences
- Social, educational and other benefits of space
- Space Law
- Space Medicine

**Special Sessions:** The participants of the conference are encouraged to organize special sessions (5-6 papers) on a particular area within the conference theme. For details, the special sessions chair Seyhan Onbaşıoğlu (onbasiogl1@itu.edu.tr) is to be contacted.

**Exhibition:** An exhibition is planned during the conference.

**Paper submission:** Prospective participants are invited to electronically submit an extended summary (minimum 500 words) of their work, following the instructions available on the web page. **Accepted papers will be published in an IEEE proceedings volume (EI indexed) that will be available at the time of the conference.** Selected papers from the conference will be considered for possible publications in archival journals. Further information about the conference can be obtained from the web site or the secretariat, the contact details of which are given below.

### Important Dates:

Submission of summaries and special session proposals

15 December 2008

Notification of acceptance

25 January 2009

Camera-ready submission of full papers

01 March 2009

### International Program Committee (others TBD, pending confirmation)

Sinan Akmandor (TR)	Özgür Gürtuna (CA)	Atsuhiko Nishida (JP)
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Süleyman Gököğlü (US)	Hassan Nagib (US)	

### Correspondance

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