First Announcement and Call for Papers

The International Space System Engineering Conference

Focusing on data retrieval and data exploitation related systems, software and hardware components, technologies and methodologies for aerospace, telecommunication and other applications

DASIA 2006
DAta Systems In Aerospace

organised by

EUROSPACE

22 – 25 May 2006
Hotel Palace Berlin, Germany

In co-ordination with

CANADIAN SPACE AGENCY – CNES – ESA
EUMETSAT – EUROCONTROL

Abstract deadline: 16 January 2006

CHAIRMAN AND PROGRAMME COMMITTEE

Chairman: F. Hass, Dansenior, Head of the Eurospace Ada and S/W Engineering Panel

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M. Richard-Foy, Aonix
A. Rossignol, EADS Astrium
M. Symonds, Logica CMG
R. Szczepaniak, Cortim
R. Ward, SciSys (Space & Defence) Ltd.

CONFERENCE RATIONALE AND SCOPE

The yearly DASIA conference was formally held for the first time in 1996 but is in direct continuation of the 'Ada in Aerospace' Conference arranged yearly since 1990 and the 'On-Board Data Management Symposium' organised several times during the same period. The DASIA conference is organised by EUROSPACE, the association of European space industry.

The focus of the conference is computer-based applications and technologies - hardware and software - for aerospace applications, in air/space and on ground. Non-space industry and Academia are strongly encouraged, however, to present their results from other applications with strong resemblance and similar technological base - such as transport and telecommunications.

The range of themes is from strategies, methods and tools to components and applications. It covers technical as well as managerial aspects of specification, development, integration and maintenance approaches. Themes related to applications of growth potential as well as to applications of complexity, safety and security are very welcome, e.g. communication, earth observation, remote sensing, guidance and navigation, autonomy, and manned space.

CONFERENCE THEMES: Hardware, software, components, subsystems, applications/payloads, methods, tools and management.

The following listing are examples of themes that may be considered:

Development and integration issues
* Software Engineering: Lifecycle Phases
* Methods and Tools: Requirements, design, coding, integration and test
* Case Tools
* Languages: Ada, C++, VHDL, JAVA,
* Methods: HOOD, UML
* Prototyping
* In circuit testing
* Simulation
* Reverse Engineering
* Process Modelling
* ASIC design methods and tools
* CAD
* Reusability
* COTS/OTS
* Checkout

Architectures, subsystems and components
* Real time aspects and Runtime Kernels
* Data Handling System Architectures: Processors, Bus systems
* Performance
* Reliability
* Security
* Distribution
* Autonomy
* High Speed, high performance support
* Fault Tolerance System
* Communication facilities
* Command and Telemetry facilities
* AOCS, sensors, propulsion systems
* Launchers

Applications and Operations
* Satellite Operations
* On-board and On-Ground segments for Satellite and Manned Space Systems
* Small Satellites, Micro-satellites and Constellations
* Guidance, Navigation and Control including the activities related to the Galileo System with special applications and technology as compared to GPS
* Image and Signal Processing
* Earth Observation/Remote Sensing
* Remote sensing application: Meteorology, forestry, agriculture, etc.
* GIS/Earth Observation Applications
* Communications
* Energy
* Defence
* Transportation: Trains, ships, aircraft
* Marine and submarine applications
* Traffic Control for air, land and sea

Management and Quality Assurance
- Re-use and Block Building
- Software Best Practice and Quality
- Standards: ECSS, ISO 9000, CMM, etc.
- Quality Assurance Metrics
- Configuration Management
- Reliability and Safety
- Training and Education
- Management Aspect for Small and Large Projects

CONFERENCE OPENING AND REGISTRATION

The Conference secretariat will open on Monday morning, 22 May 2005 for late registration and documentation and remain in operation during the whole Conference.

The Conference opening on Monday morning will be composed of keynote speeches and will be followed by paper presentations.

A buffet reception is offered by EUROSPACE Monday evening.

OFFICIAL LANGUAGE

The official language will be English.

PAPER PRESENTATION SESSIONS

Three and a half days will be assigned to paper presentation sessions. The Conference will finish around 16:00 Thursday 25 May 2006.

Each presentation may last 30 minutes, including the time for discussion.

The paper abstracts will be printed and made available at the Conference registration desk.

Each session will include in average three presentations with an overall topic derived from the technology themes and application areas covered by the selected papers. There will be two parallel presentation lines with sessions arranged so as to avoid in the best possible manner overlapping sessions with related themes.

LCD video projectors (for PC or Mac) are available for presentations. For any further needs please contact the Conference Manager.

VENDOR EXHIBITIONS

An exhibition area, situated next to the conference room, will be made available to companies wishing to exhibit their offerings, tools or systems at any time during the conference.

The conference programme will include breaks dedicated to visits to this area, where also coffee breaks will take place.

Companies interested are invited to contact the Conference Manager to ensure reservation of floor space and possible arrangements of special presentations.

KEYNOTE PRESENTATIONS

Keynote presentations will be given at the Conference opening and possibly as introductions to Panel Workshops during the conference. Presentations for year 2006 are still under discussion.

PANEL WORKSHOPS

Two Panel Workshops are planned: the first on Tuesday, 23 May 2006, the second on Wednesday, 24 May 2006, in the late afternoon.

The Programme Committee will select the topics in February 2006.

Workshops are arranged as discussions in plenum within a selected topic introduced by the Panel Workshop Chairman – or a Keynote presentation – and further analysed by short presentations by selected experts or users.

Conference participants will be free to participate with unplanned contributions in the Panel Workshops. However you are encouraged to forward as soon as possible and before 16 January 2006, proposals for panel topics that you wish to be considered. These will be reviewed and you will be contacted after the February 2006 Programme Committee meeting concerning the outcome and your presentation.

CALL FOR PAPERS

Speakers are invited to announce their intention of submitting a paper as soon as possible, and at the latest **before 16 January 2006,** by sending a three-five page abstract - not less than three and no more than five - by e-mail and in pdf-format to EUROSPACE **(claire.guilly@eurospace.org).**

At the top of the first page the following information should be centred: The title, the authors' full name and affiliation, mail address, phone, fax and e-mail.

Important: Should also be mentioned: The name of the person to contact for this paper, the person who will do the presentation, as well as possible constraints linked to the presentation (pending rights of publishing, etc.).

The abstract selection of papers will take place in February and distribution of the full Conference Programme in March 2006.

Authors will be requested to provide their full text to the editor of the Proceedings during the Conference. Full proceedings will be published after the Conference.

TIME SCHEDULE AT A GLANCE

16 January 2006	Deadline for submission of abstracts
16 January 2006	Deadline for submission of proposals for Panel Workshop themes
February 2006	Selection of papers and preparation of the Conference Programme
March 2006	Distribution of the Invitation letter together with Registration and Room Reservation Forms. The Conference Programme can be found on the Eurospace website: *www.eurospace.org*
16 April 2006	**Deadline for Registration and Room Reservation**
22 May 2006	Start of the Conference

CONFERENCE FACILITIES

All conference facilities are located at the Hotel Palace where also accommodation at special rates is arranged.

ACCOMMODATION AND COSTS

A Conference fee of **€800** will be requested from all participants, including speakers and chairmen. This fee will include lunches, coffee breaks, reception and proceedings.

The fee for vendor and tool exhibitors will range from **€3200 (9 m^2), €3900 (12 m^2) to €4700 (15 m^2),** including one attendance fee for the Conference paper presentations.

A block reservation of 100 rooms is made at the Conference Hotel until 16 April 2005. After that date, reservation will be on request and upon availability.
Registration and Room Reservation Forms will be circulated with the invitation letter and can also be found on the Eurospace website as well as the First Announcement & Call for Papers.

ORGANISING COMMITTEE

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You can also visit the EUROSPACE website: **www.eurospace.org**