

PROCEEDINGS OF THE  
**4<sup>TH</sup> INTERNATIONAL WORKSHOP ON  
AIRCRAFT SYSTEM TECHNOLOGIES**  
APRIL 23 – 24, 2013, HAMBURG, GERMANY

EDITED BY  
OTTO VON ESTORFF  
FRANK THIELECKE



Berichte aus der Luft- und Raumfahrttechnik

**Otto von Estorff,  
Frank Thielecke (Hrsg.)**

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Internet: [www.shaker.de](http://www.shaker.de) • e-mail: [info@shaker.de](mailto:info@shaker.de)

## WELCOME

Time flies by: It is already six years ago that the Hamburg University of Technology organized the *1<sup>st</sup> International Workshop on Aircraft System Technologies AST 2007*. After further very successful events in 2009 and 2011, we were highly motivated to arrange the 4<sup>th</sup> event of this series and cordially welcome you to the AST 2013.

As in the past, well-known international experts from industry, research institutes, and universities are meeting in Hamburg, one of the world's leading centers for civil aviation. Here R&D activities are embedded in a local network, where industry, universities, and government work closely together on innovative ideas and developments in the field of future aircrafts. Joint initiatives such as *Hamburg Aviation* or the *Luftfahrtcluster Metropolregion Hamburg*, a German "Spitzencluster" sponsored by the Federal Ministry of Education and Research, promote the common activities in a very special way. In fact, results of the latter have led to a unique collaborative network, which will be introduced and discussed in more detail during the workshop.

Since almost all participants have been very happy with the new structure introduced on the last AST, namely the organization of two parallel sessions, this will be continued.

For the third time, the *Institut National des Sciences Appliquées de Toulouse* (INSA) is co-organizing the event. The idea to hold the AST and R3ASC (*Recent Advances in Actuation Systems and Components*, Toulouse) conferences on an alternating schedule has been proven to be very successful. The combination of the two events is highly appreciated by many scientists and engineers, who have every year – the AST is organized every odd year while the R3ASC takes place every even year – the opportunity to meet and to exchange on the latest developments in aircraft system technologies.

A total of 42 high-quality contributions can be found in the proceedings of the event, traditionally addressing the fields of *Airframe Systems and Equipment*, *Information and Communication Management*, *Materials and Production* as well as *Cabin and Comfort*. For practicing engineers and scientists working in one of these areas the proceedings will be a valuable source of information and document the state-of-the-art.

We all know that writing high level conference papers takes a lot of time and is a rather challenging task. Therefore, as being responsible for the organization of the workshop, we would like to thank all the authors for their contributions to the event and for their efforts to make the proceedings such a complete work. We also would like to extend our gratitude to the colleagues of the program committee and the organizing team for their great support and cooperation. Finally, we would like to express our sincere appreciation to the sponsoring and supporting companies, institutions, and associations making this workshop possible.

We wish all participants of the AST 2013 an interesting meeting, many fruitful discussions, and a pleasant stay in Hamburg.

Otto von Estorff and Frank Thielecke  
Conference Chairmen AST 2013



## ORGANIZATION

- Conference Chairs:** Hamburg University of Technology  
Prof. Dr.-Ing. Otto von Estorff  
Prof. Dr.-Ing. Frank Thielecke
- Conference Co-Chair:** Institut National des Sciences Appliquées de Toulouse  
Prof. Jean-Charles Maré
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Prof. Dr.-Ing. Delf Sachau  
  
Hamburg University of Applied Sciences  
Prof. Dr.-Ing. Wolfgang Gleine
- Local Arrangements:** Jürgen Teigeler  
Timo Pe
- Conference Secretariat:** Dr.-Ing. Stephan Lippert  
Claudia Plötz  
  
Institute of Modelling and Computation  
Hamburg University of Technology  
Denickestraße 17  
21073 Hamburg, Germany  
Phone: +49 (0)40 42878-3232  
Email: [ast@tuhh.de](mailto:ast@tuhh.de)



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