



Journal of Aerospace Technology and  
Management

ISSN: 1948-9648

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Instituto de Aeronáutica e Espaço  
Brasil

Avelar, Ana Cristina  
JATM Achievements, Challenges and Targets  
Journal of Aerospace Technology and Management, vol. 4, núm. 1, enero-marzo, 2012, pp. 5-6  
Instituto de Aeronáutica e Espaço  
São Paulo, Brasil

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## Editorial

# JATM Achievements, Challenges and Targets

**Dr. Ana Cristina Avelar\***

Editor in Chief

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As announced in the previous JATM issue launch event at EMBRAER, Prof. Francisco Cristovão L. Mello stepped down as JATM Editor-In-Chief in December, 2011 due to personal projects. To replace him, the Editorial Committee wanted someone from *Instituto de Aeronáutica e Espaço* (IAE), which is where JATM was invented, committed with the journal and that used to be integrant of the work group that created it. Therefore, I have been invited and accepted the challenge together with the editorial board of making that JATM improves and achieves its purpose of being a prestigious international source of knowledge dissemination in its area of expertise. I am conscious that we have a long way on, but I really believe that this purpose is worth of being pursued and it can be achieved through personal effort, dedication, and commitment. I take this opportunity to thank the Editorial Committee for the invitation and confidence, and also in behalf of the Editorial Board, I gratefully thank Francisco for all his contributions to our journal.

In consonance with its mission of “increasing the knowledge and developing technological-scientific solutions for strengthening the aerospace power, contributing for the national sovereignty and for the progress of the Brazilian society, through education, development, innovation, and technological specialized services in the aerospace field”, IAE has offered the initial financial support for the production of JATM. Although it is still very recent, important achievements have been obtained since the first circulated issue in June, 2009. In fact, JATM has been created because of an initiative of the IAE director, Brig. Francisco Carlos Melo Pantoja, and his commitment with our journal has been determinant for all JATM realizations.

Our journal has been publishing papers originating from post-graduate programs, universities, and Research and Development Institutes, both in Brazil and overseas, and from aerospace companies. The articles deal with a large variety of aerospace technology and management areas, which, besides being a relevant topic in the aerospace world, makes the journal even more comprehensive.

JATM is already included in several important indexing systems and database of scientific publication: SCOPUS; CAS; DOAJ; J-GATE; LIVRE; Google Scholar; Sumários.ORG; EZB; ULRICHSWEB; SOCOL@R; Periodica; LATINDEX; Periódicos-CAPEs, and QUALIS, from where we have just received the classification B4 in Geosciences and Engineering III. The criterions for JATM to remain in these databases are continuously monitored, ensuring the quality of the journal. An increasing interest in our journal, since its creation, has been observed. Last year, the number of papers submitted to JATM increased 35% compared to 2010. The number of papers that has been received in 2012 is also 50% higher than the one received in the same period of 2011.

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\*Ana Cristina Avelar received a Mechanical Engineering degree from the Universidade Federal de Itajubá, UNIFEI, in 1994. She received the M.S.c and Doctor degree in Mechanical Engineering in the area of Thermal and Fluids Sciences in 1997 and 2001, respectively, by the Universidade Estadual de Campinas, UNICAMP. She started her carrier in the Instituto de Aeronáutica e Espaço, IAE, as a researcher in 2002. She has been actuating in the area of experimental methods in wind tunnel, mainly with the optical methods of Particle Image Velocimetry (PIV) and Pressure Sensitive Paint (PSP). She participated in courses in these subjects in the German Aerospace Center, DLR, in 2005 and 2009, respectively, and from September 2010 to September 2011 she carried out and a post-doc stage in the Laboratoire de Mécanique de Lille, Lille, France, working with Tomographic PIV. Today, besides researches activities using PIV and PSP she participates in the recently created post-graduation program in Sciences and Space Technologies, PG-CTE, in the Instituto Tecnológico de Aeronáutica, ITA, and coordinates a portfolio of projects of Research and Development in Space Vehicles Associated Technologies.

Since September, 2011, JATM became an official publication from *Departamento de Ciência e Tecnologia Aeroespacial* (DCTA), and it has been financially supported by the prestigious *Fundação Conrado Wessel* through a partnership with DCTA. This foundation supports other important vehicles of knowledge dissemination in Brazil, such as *Revista da Fapesp*, *Anais da Academia Brasileira de Ciências*, among others. It also distributes annually awards to the Brazilian best scientists, artists, and writers in cooperation with important Brazilian research founding agencies. For JATM it is a great honor to be supported by *Fundação Conrado Wessel*, which is thankfully acknowledged.

JATM has also a role in the process of motivating students and professors to start or enhance their scientific production. Free tools for improvement of writing aspects as language and reference revisions are offered, and lectures are promoted for disclosure of the best practices in scientific writings, increasing awareness of ethical responsibility in scientific publications, especially regarding the issue of fraudulent authorship, originality, and novelty.

This journal is edited and published in São José dos Campos, São Paulo State, which is a pole of aerospace development. Thus, in spite of publishing papers from several Brazilian states and also from international institutions, predominantly, the papers received by JATM are from São José dos Campos and region. Efforts have been done for divulging JATM through the country and internationally. Our electronic version, which is worldwide freely accessed, through the website [www.jatm.com.br](http://www.jatm.com.br), has been a very important tool for showing our journal.

Aimed at increasing the journal international visibility as well as at enhancing its quality, starting with this issue, some modifications have been carried out. From now on JATM is going to publish papers only in English. In addition, our editorial board has been reformulated in order to have well-known national and international specialists from different institutions and geographical regions, and a scientific council has been created.

In order to more appropriately characterize the field of Aerospace Technology and Management, some specialties, like Materials, Mechanical Engineering and Electronics, which are too generic, have been replaced for more specific ones, to allow allocating the associated editors according to their specializations. The JATM specialties are: Acoustics, Aerodynamics, Aerospace Circuitry, Aerospace Systems, Aerospace Meteorology, Air and Space Defense Systems, Applied Computation, Astrodynamics, Ceramic Materials, Composites, Eletromagnetic Compatibility, Energetics, Fluid Dynamics and Turbulence, Guidance Navigation and Control, Management Systems, Metallic Materials, Photonics, Polymeric Materials, Processing of Aerospace Materials, Propulsion and Combustion, Radars and Tracking Systems, Robotics and Automation, Structures, Synthesis and Characterization of Aerospace Materials, Thermal Sciences, and Vibration and Structural Dynamics. In order to make easier the administration of the papers, since our scope is really broad, every specialty has one to three associated editors.

The JATM growing has been carefully planned since its creation in a way that its first volume would have two issues, one publication every six months, and from the second volume on, three issues, at every four months, maintaining its periodicity and punctuality. The journal would become a quarterly publication when prepared for this accomplishment. In fact, the journal is now strong enough, and in the present issue JATM becomes a quarterly periodical.

Regarding minor changes, our paper template has also experimented some improvements, concerning to authors' affiliation and format. In this new version, it is easier to consider all affiliations of the authors, and the correspondence authors are more easily identified. Our cover has been improved as well. In addition, the instructions to the authors are more comprehensive, and an online submission system is being tested and will be shortly available.

In summary, JATM has been successful in achieving short-time targets as disseminating knowledge to the scientific community, while maintaining its periodicity and improving its quality. Actually, all JATM accomplishments have been reached due to a great commitment of colleagues from the editorial board, who have been doing a hard work since the creation of the journal. Some of them are Ana Marlene F. Morais, who has been the leader of the work group that created the journal, Cynthia Junqueira, Elizabeth C. Mattos and João Luis F. Azevedo, among others.

Finish by assuring our community that a great endeavor is going to be made for a continuous enhancement of JATM quality, representativeness, and international visibility, pursuing in this way our major purpose of becoming a very successful international journal.