Title: Human Centred Design for passenger’s enhanced comfort and wellbeing in Aircraft cabin

ABSTRACT:

Human Centered Design processes are gaining the growing attention of researchers in industry and academia in order to increase the competitiveness and the social and environmental impact of products.

In the aviation domain a special focus is on the passengers with the aim of improving their comfort and well being and to predict the quality of their experience while flying in new conceived aircraft cabin interiors.

The topics will cover the following domain:

- Noise and Vibration for cabin interiors
- Innovative non structural materials for cabin items
- Human Centered Design Approach for interior design
- Virtual Reality for human in the loop simulation of next generation interiors
- Ergonomic studies for cabin interiors
SYMPOSIUM N.3

HUMAN CENTRED DESIGN FOR PASSENGER’S ENHANCED COMFORT AND WELLBEING IN AIRCRAFT CABIN

Chaired by Prof.ssa Francesca De Crescenzio
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University of Bologna – Italy

Paper N. 1  F. De Crescenzio, S. Piastra, S. Bagassi - EXPERIMENTAL PROCEDURES FOR PRELIMINARY USER CENTERED EVALUATION OF REGIONAL AIRCRAFT CABIN INTERIORS IN VIRTUAL REALITY

Paper N. 2  Mahnaz Sharafkhani, Sue Cobb, Elizabeth Argyle, Paul Tennent - IMPROVING AIRCRAFT PASSENGERS’ HEALTH AND COMFORT THROUGH VIRTUAL REALITY APPLICATIONS

Paper N. 3  S. Valvano, A. Alaimo, C. Orlando - SOUND TRANSMISSION ANALYTICAL SOLUTION OF PASSIVE DAMPED MULTILAYERED PLATE STRUCTURES

Paper N. 4  M.C. Moruzzi, M. Cinefra, E. Carrera, M. Barbarino, P. Vitiello, S. Bagassi - VIBROACOUSTIC ANALYSIS IN THE CABIN OF A REGIONAL TURBOPROP WITH INNOVATIVE MATERIALS BY ACTRAN

Paper N. 5  M. Guida, P. Leoncini - COMFORT ASSESSMENT OF AIRCRAFT INTERIORS IN A VIRTUAL IMMERSIVE ENVIRONMENT

Paper N.7  P. Russo, F. Branda, T. Polito, F. Marulo, M. Guida, J. Passaro, B. Vitolo D. Di Maio - **DESIGN AND DEVELOPMENT OF A NEW CONCEPT FOR TERMOACOUSTIC INSULATION BLANKETS, IN CIVIL AIRCRAFT APPLICATIONS**

Paper N.8  C. Casale, T. Polito, V. Trifari, M. Di Stasio, P. Della Vecchia, F. Nicolosi, F. Marulo - **IMPLEMENTATION OF A NOISE PREDICTION SOFTWARE FOR CIVIL AIRCRAFT APPLICATIONS**

Paper N.9  A. Alaimo, A. Esposito, F. Lo Iacono, G. Navarra, C. Orlando - **AIRCRAFT PASSENGER WHOLE BODY VIBRATION ANALYSIS**

Paper N.10  D. Bianco, V. Giannella, C. Colangeli, G. Petrone, R. Citarella, F. Branda, M. Barbarino - **EXPERIMENTAL INVESTIGATION ON OPTIMISED AIRCRAFT SEAT HEADRESTS**


Paper N.12  C. Germak, A. Di Salvo - **COLOURS AND AIRCRAFT INTERIORS. DESIGN SCENARIOS FOR A REGIONAL AIRCRAFT CABIN.**