DCAMM SEMINAR

APPLIED MATHEMATICS AND MECHANICS

FS922 29 September 2017

A DCAMM seminar No. 713 will be presented by

Senior Technical Fellow Jai Moo Kim
Korea Aerospace Research Institute, Korea

The title of the lecture is

Tiltrotor UAV Development in Korea and Recent Progress for Performance Enhancement

Abstract:

Tiltrotor UAV, called Smart UAV(SUAV) has been designed, fabricated and tested in Korea since 2002. The tiltrotor platform development was unusually difficult, and many risk-mitigating ground tests were performed including ironbird test, 4-degree-of-freedom rig test and tethered flight test. The SUAV has demonstrated conversion flight from helicopter mode to aircraft mode in 2011, which verified that automatic control of the tiltrotor platform was successful developed. First potential customer in Korea preferred smaller size of the tiltrotor UAV(60% size of the SUAV) that TR60 tiltrotor UAV additionally has been developed and flight tested starting 2007 until recently.

Performance enhancement efforts were made while extending the endurance and demonstrating ship landing capability. This presentation will cover 15-year-long R&D and test activity at KARI for the tilt rotor development.

DATE: **Friday, 6 October 2017**

TIME: **15:00 – 15:45 + questions**

PLACE: **Room S09, Building 101,**
DTU, Technical University of Denmark

Danish pastry, coffee and tea will be served 15 minutes before the seminar starts.

All interested persons are invited.

Niels Leergaard Pedersen