



Dynamic Modeling of Ground Antennas

PROF. DR. ING. JEAN-REGIS HADJI-MINAGLOU
University of Luxembourg

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The main goal of the R&D DMGA project is to obtain an accurate electro-mechanical model of a full motion antenna based on the simulation, including the complete closed loop control, using independent modern computational tools (INVENTOR, ANSYS, ADAMS, MATLAB/SIMULINK), which will be validated by experiments in-shop and on-site with the live Galileo antennas and with any other antenna that HITEC Luxembourg has to design, build-up and deliver. The modeling will include every type of antennas (Limited motion GEO, low dynamic full motion LEO, high dynamic full motion LEO, full motion MEO).

The mechanical design of the antenna has been validated. The next step is the study of the dynamic behaviour of the antenna with the analysis of the effect of the drive-train chain.

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Language: Lecture: English | Discussion: English/French

Registration and information : Antonella Campanella (tel.: 46 66 44 6664 | amis@uni.lu)