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Computational electromagnetics
(CEM), computational electrodynamics
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process of modeling the interaction of electromagnetic fields with physical objects and the environment.. It typically involves using computer programs to compute approximate solutions

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(CEM) models Figure 1 CEM

Flowchart 3 Aircraft Test Campaign

Before testing, several lightning attachment scenarios were selected in an

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And Experimental computational electromagnetic (CEM) models. The aircraft is injected with different lightning current attachment scenarios while measurements of currents, voltages and magnetic fields focused in the composite wing area. The high fidelity aircraft model has been resolved with EMA3D software.

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Our research activities cover many aspects in theoretical, computational, and experimental electromagnetics, such as the design of smart, reconfigurable antennas, fast

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Computational electromagnetics,
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electromagnetic modeling is the
process of modeling the interaction of

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Electromagnetic fields with physical objects and the environment. It typically involves using computer programs to compute approximate solutions to Maxwell's equations to calculate antenna performance, electromagnetic compatibility, radar cross section and electromagnetic

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wave propagation when not in free
space. A large subfield is antenna
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interaction between the compartment
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ABSTRACT This project is an inter-
disciplinary collaboration involving
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now become a standard tool for
assessing proposed new biological
mechanisms, often considered

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