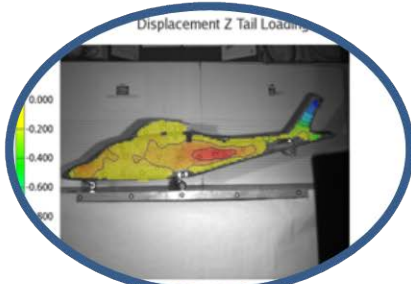


Fusing Different Measurement Regimes



Rigid Body



Low Flexible Modes

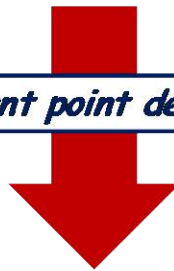


Higher Flexible Modes

Various approaches with different point densities spanning a wide bandwidth



Optical



Accelerometer



Laser



Different measurement methodologies with different spatial resolutions are commonly obtained. Optical displacements, accelerometers and high frequency laser measurements all have different frequency ranges and spatial distributions. A reduction/expansion methodology is used to create one fused common set of measurements and data to represent the system modes over the complete frequency range.