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Dr. Galiana's research interests focus on signal processing and the modelling of control strategies for the orientation of eyes and head, a nd related issues of platform coordination and sensory fusion. Theoretical predictions are tested in the vestibular clinic for patient evaluation, and by porting to biomimetic robot systems.

Dr .Galiana's work in the field of sensorimotor control involves modelling with topologically relevant circuits. Her work on nystagmus a nalysis has led to automated methods for the classification of switching segments, applicable to any eye reflex and to other non-linear signal s in breathing or spectroscopy. These pre-classification algorithms have allowed the unmasking of unexpected reflex dynamics and led to ne w hypotheses for both gaze control and arm control. These are demonstrated in real robotic platforms and suggest much simpler strategies f or prostheses.

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