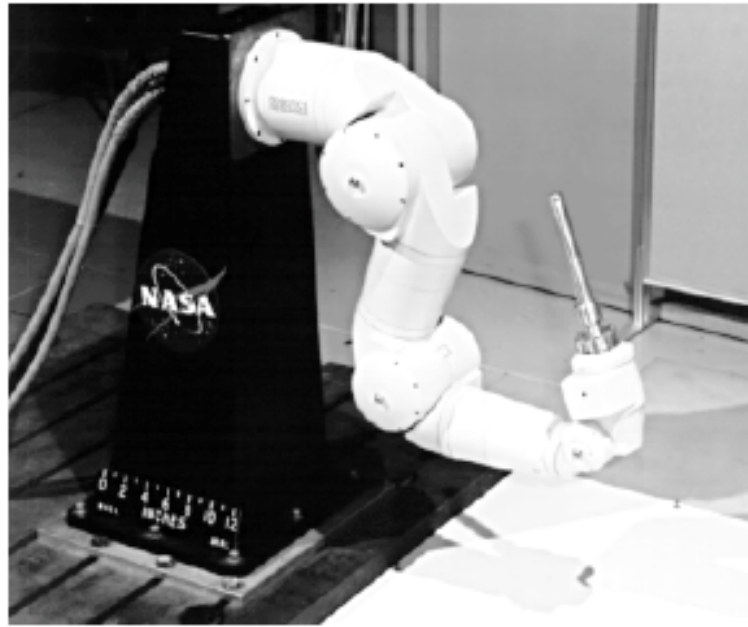
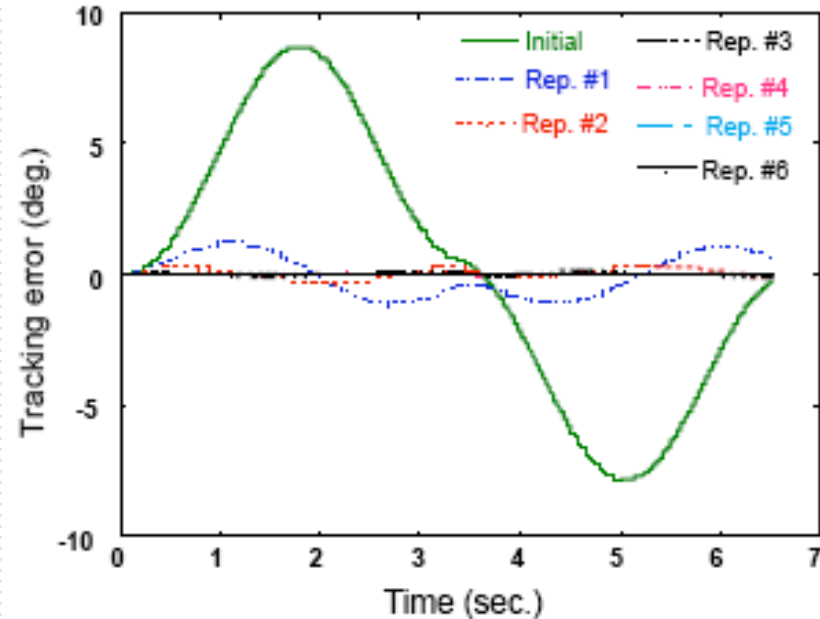


Experiments Run on a Robot at NASA Langley Research Center

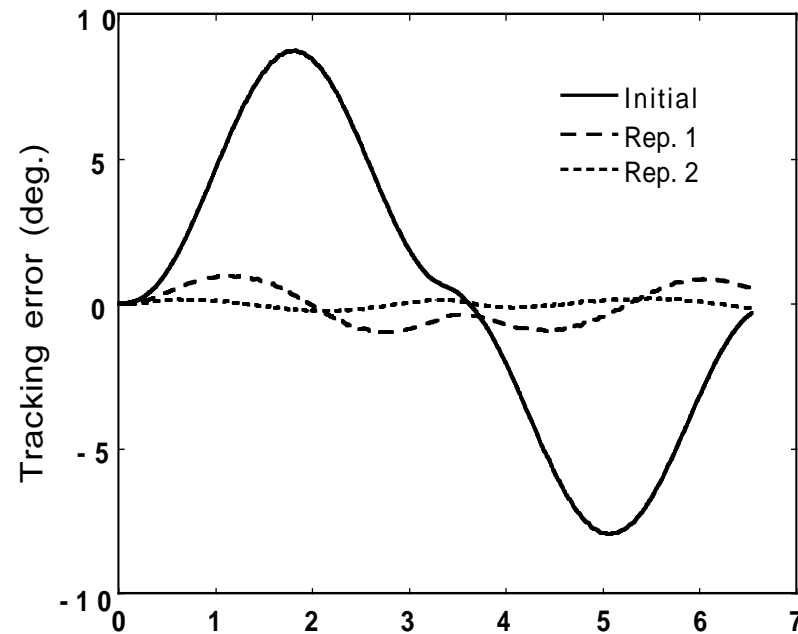


Feedback Controller Performance

- Tell the controllers for all joints to rotate 90 degrees and then rotate back, at high speed
- The error for all 7 links reaches approximately 9 degrees

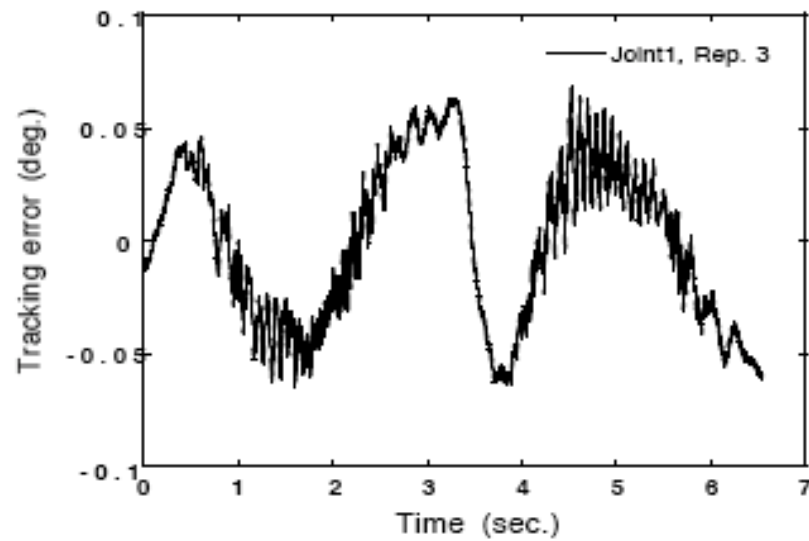


**TIME HISTORY OF ERROR INTEGRAL CONTROL BASED ILC
AUGMENTED WITH A COMPENSATOR
And an 18Hz Zero Phase Low Pass Filter
Repetitions 0, 1, 2**

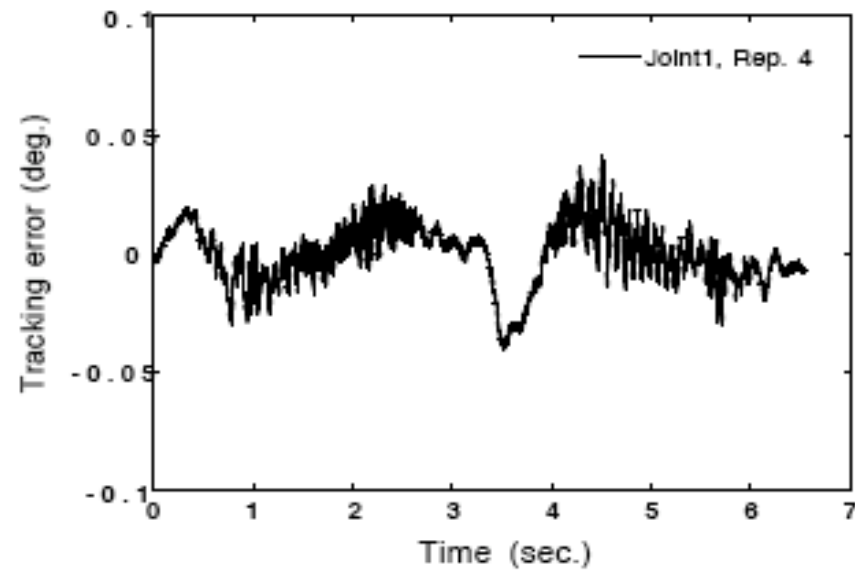


Reference 21

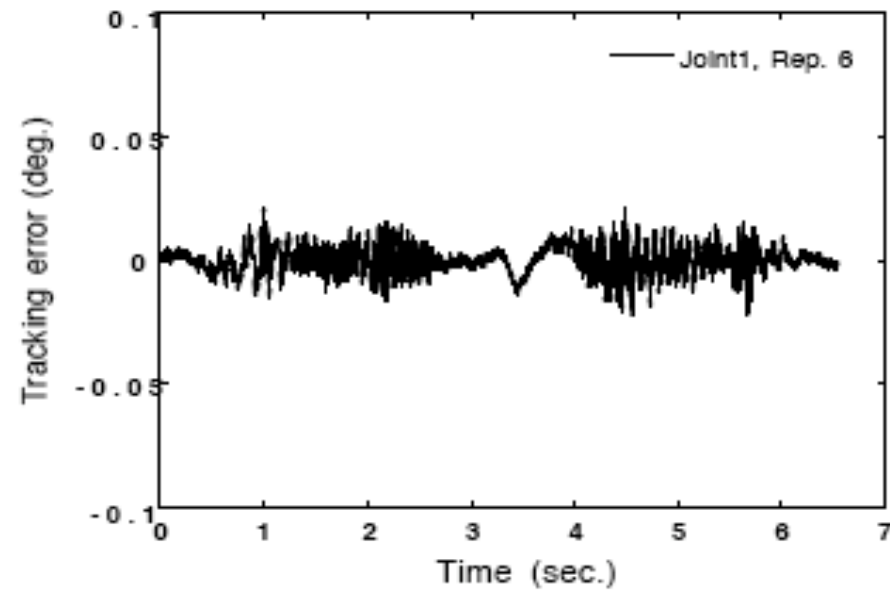
Error History on 3rd Iteration



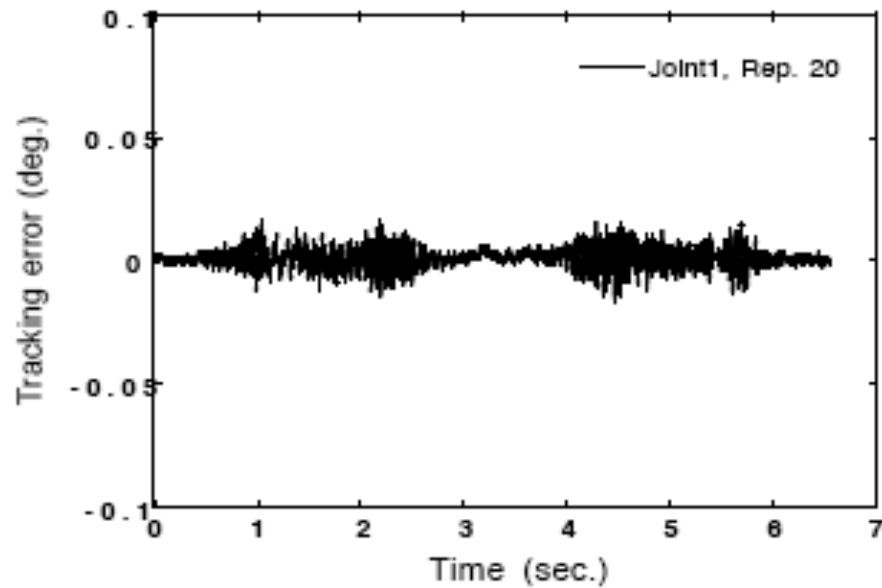
Error History on 4th Iteration



Error History on 6th Iteration



Error History on 20th Iteration



The Root Mean Square of the Error vs. Iterations

