

	Elham Ghahremanloo
Research Interest:	<ul style="list-style-type: none"> <li>-Control Engineering</li> <li>-Bio Engineering</li> <li>-Neuro Science</li> <li>-Image Processing</li> <li>-System Identification</li> <li>-Fault Detection</li> </ul>
Thesis Title:	Anti-Control Analysis for On-time Fault Detection of a Flexible Joint System
Abstract: <p>In any control system, existence of controller for achieving to desired characteristics of a closed loop system is essential but it is also the factor which prevents on-time fault detection. Flexible joint is a under actuator system and controlling two outputs-displacement and deflections of joint-with one input is challengeable . One of choices for decreasing joint deflections is synchronization with a chaotic signal. Therefor the controller is designed base on zero synchronization and tracking errors. In this way, the controller helps us for on-time fault detection. We can use changing of lyapunov exponential or changing of bifurcation after occurring a fault in the system for fault detection.</p>	
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