

	Shiva Safari
Research Interest:	<ul style="list-style-type: none"> - Fault detection and identification - Machine vision - Neural network - Electronic circuit Design - Image processing
Thesis Title:	Pipeline fault detection based on vision
Abstract: <p>In these days, Pipelines play an important role in an oil and gas transportation system. It goes without saying that Pipes are the essential part of this kind of transportation. Existence of any kind of Fault in these pipes could cause environmental and economic dilemma and put many human lives in danger, Effects that we cannot compensate for in many cases, so it is necessary to have an inspection system to avoid these damages. It is almost impossible to detect faults by manual inspection because of huge amount of pipes used in pipelines. Therefore, we need an intelligent inspection system. My research goal is to design a robot with algorithms which makes it capable of intelligent inspection. To simply put you can imagine a robot with a camera mounted on its head that can move through the pipeline and detect any kind of defect by its vision without any manual control.</p>	
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