

Séminaire LVA

***From acoustic holography of consumer-electronics to active vibration control of MRI-scanners***

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**Salle de cours du LVA**- INSA de Lyon  
25 bis Avenue Jean Capelle, 69621 VILLEURBANNE

*In the presentation an overview is given of my research interests. In previous years I have worked on acoustic holography, mainly from an application point of view. Under my direction research was carried out by a PhD student on the selection of optimal regularization parameters in acoustic holography. During my employment at Philips I have applied acoustic holography to various Philips products, ranging from consumer electronics to magnetic resonance imaging systems.*

*At Philips I was also in the fortunate position to perform research on active vibration control of resonance imaging systems. Some results will be presented.*

*While acoustic holography is a pure acoustic ‘inverse problem’, I am also interested in inverse structural-acoustic problems. The operational transfer path analysis methods are currently enjoying a renewed interest in the research community, not without reason. In the presentation some initial results obtained at INSA (in the very first weeks...) will be given.*

*Besides acoustic holography, inverse methods in general and active vibration control I also have interest in the vibro-acoustic properties of composite materials. Recently I have started on the latter topic with a PhD student at Delft University of Technology. An outline of the work planned will be given.*