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PUBLICATIONS (PEER-REVIEWED)	[J1] Rakesh Malladi , Giridhar P Kalamangalam, Nitin Tandon, Behnaam Aazhang, “Identifying seizure onset zone from the causal connectivity inferred using directed information,” in IEEE Journal of Selected Topics in Signal Processing Oct. 2016	
	[C7] Rakesh Malladi , Giridhar P Kalamangalam, Nitin Tandon, Behnaam Aazhang, “Identifying seizure mechanisms from ECoG data using directed information,” Cosyne Abstracts. Feb. 2016	
	[C6] Rakesh Malladi , Giridhar P Kalamangalam, Nitin Tandon, Behnaam Aazhang, “Inferring causal connectivity in epileptogenic zone using directed information,” IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) Apr. 2015	
	[C5] Rakesh Malladi , Giridhar P Kalamangalam, Nitin Tandon, Behnaam Aazhang, “Identifying epileptogenic zone using directed information,” Society for Neuroscience (SfN). One of the 90 dynamic posters selected from about 15000 posters Nov. 2014	
	[C4] Rakesh Malladi , Anand Dabak, Nitish K Murthy, “Modeling ultrasound guided wave propagation for plate thickness measurement,” Proc. SPIE, Nondestructive Characterization for Composite Materials, Aerospace Engineering, Civil Infrastructure, and Homeland Security Mar. 2014	
	[C3] Rakesh Malladi , Behnaam Aazhang, Giridhar P Kalamangalam, “Online bayesian change point detection algorithms for segmentation of epileptic activity,” Proceedings of Asilomar Conference on Signals, Systems, and Computers Nov. 2013	
	[C2] Rakesh Malladi , Kiran Kuchi, R David Koilpillai, “Set-partitioning based forward/backward soft decision algorithms for MIMO detection,” IEEE International Conference on Signal Processing and Communications (SPCOM) Jul. 2012	
	[C1] Mahesh Gupta Vutukuri, Rakesh Malladi , Kiran Kuchi, R David Koilpillai, “SAIC receiver algorithms for VAMOS downlink transmission,” IEEE International Symposium on Wireless Communication Systems (ISWCS) Nov. 2011	
PAPERS UNDER PREPARATION	[J2] Rakesh Malladi , Don Johnson, Giridhar P Kalamangalam, Nitin Tandon, Behnaam Aazhang, “Measuring cross-frequency coupling using mutual information and its application to epilepsy,” to be submitted to IEEE Transactions on Signal Processing.	
	[J3] Rakesh Malladi , Don Johnson, Behnaam Aazhang, “Estimating mutual information over time by aggregating over frequency,” under preparation.	
PATENTS	Rakesh Malladi , Anand G. Dabak, Nitish Krishna Murthy “Structural Health Monitoring (SHM) for Pipes Using Ultrasound Guided Wave Propagation,” US Patent App. 14/458,036 2014	
POSTERS	[7] Rakesh Malladi, Giridhar P Kalamangalam, Nitin Tandon, Behnaam Aazhang, “Identifying seizure mechanisms from ECoG data using directed information,” ECE Affiliates Day, Rice University. Best poster award Apr. 2016	
	[6] Rakesh Malladi, Giridhar P Kalamangalam, Nitin Tandon, Behnaam Aazhang, “Mechanisms of seizure identified from causal connectivity inferred using directed information,” Society for Neuroscience (SfN). Nov. 2015	

- [5] Rakesh Malladi, Giridhar P Kalamangalam, Nitin Tandon, Behnaam Aazhang, "Identifying the epileptogenic zone using directed information," Annual Neuroscience Poster Session, UT Health Science Center, Houston. **Best poster award** **Dec. 2014**
- [4] Rakesh Malladi, Giridhar P Kalamangalam, Nitin Tandon, Behnaam Aazhang, "Identifying the epileptogenic zone using directed information," ECE Affiliates Day, Rice University. **Second best poster award** **Apr. 2014**
- [3] Rakesh Malladi, Giridhar P Kalamangalam, Nitin Tandon, Behnaam Aazhang, "Are high frequency oscillations biomarkers of epileptogenic zone ? — a network connectivity analysis," Annual Neuroscience Poster Session, UT Health Science Center, Houston. **Dec. 2013**
- [2] Rakesh Malladi, Giridhar P Kalamangalam, Nitin Tandon, Behnaam Aazhang, "Time-varying frequency-specific effective connectivity for epilepsy," Center for Neuroengineering Symposium (CNE) Symposium, Rice University. **Oct. 2013**
- [1] Rakesh Malladi, Behnaam Aazhang, "Functional connectivity based segmentation of epileptic activity," ECE Affiliates Day, Rice University. **Apr. 2013**