BCWS Seminar Series

Compressive Sensing

by

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Time: Wednesday, March 31, 1:30 - 2:30 pm
Place: Room 4356, Mackenzie Building, Carleton University

Abstract: In this talk we investigate the importance of sparsity in compression. We will introduce Compressive Sensing (CS), as a technique to further utilize the sparsity present in signals. We further discuss the formulation and setup of CS in literature. We will then discuss some recovery algorithms, their strength and shortcomings. Afterward, we focus on a specific class of recovery algorithms and show that they can be analyzed mathematically. To conclude, it will be shown that how the analytical approach compares with the simulation results.

Biography: Yaser Eftekhari received his B.Sc. and M.Sc. in Electrical Engineering from Isfahan University of Technology in 2002 and 2004, respectively. He is currently in his third year of Ph.D. studies at Carleton University under the supervision of Prof. Amir Banihashemi and Prof. Ioannis Lambadaris. His area of research is mainly concerned about Compressive Sensing and Information Theory.