

Introduction to STAP for Airborne Moving Target Indicator Radar

Mr. Konstantinos Belesis, Systems Engineer at Exelis Integrated Electronic Warfare Systems-Tactical Systems, gave an excellent presentation on Space-Time Adaptive Processing (STAP) for Airborne Moving Target Indicator Radar. He discussed the history and evolution of STAP as well as the need for STAP. STAP helps radar detect moving targets in a ground clutter and jammer signal environment. Mr. Belesis discussed the inner workings of STAP radar from a signal processing perspective. He also introduced the concept of knowledge based STAP which uses knowledge from the surrounding environment to help the radar detect targets. Mr. Belesis also provided an example from an electronic warfare perspective on how an electronic warfare system might interfere with a STAP Radar. He concluded his presentation with a summary and answered questions from the audience.