



POSITION, LOCATION AND NAVIGATION (PLAN) GROUP NEWS RELEASE

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PATENT ISSUED ON ANTI-SPOOFING METHOD

Patent No. US 7,952,519 B1 on *Methods and System for Detecting GNSS Spoofing Signals* has been issued by the U.S. Bureau of Patents and Trademark Office to inventors Dr. Ali Broumandan, Professor Gérard Lachapelle and Professor John Nielsen. The method operates on signals originating from inauthentic (spoofing) sources. A synthetic array using a receiver antenna that is randomly spatially translated is used to gather alleged GNSS signals that are then processed to determine the spatial correlation between them, a high spatial correlation between the signals indicating a probable inauthentic source for the GNSS signals. The development of such anti-spoofing technologies is important as emerging spoofing methods constitute an increasing threat to the use of GNSS in consumer devices and GNSS receivers.

Dr. Broumandan is a post-doctoral fellow in the PLAN Group and Professor Nielsen is a faculty member in the Department of Electrical and Computer Engineering.