

Second Laureate Applied Research

- **Project title:** A Tactical system for detection, identification, classification and direction finding of radar targets with 2-18 Ghz Band
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Abstract:

This system extracts specific information from Radar Systems through observing the emitted radiation signals.

This information includes specific data such as pulse width, pulse amplitude, frequency and pulse repetition rates. The radar specification is then presented after processing of the extracted data. The extraction systems are classified as strategic or tactical based on the response time, mobility and processing power. The presented system, which combines both hardware and software platforms, uses pulse analysis algorithm to find the angle of arrival for each incoming radar pulse.

Due to huge volume of input pulses, the challenge in designing such system is the need for an efficient clustering technique.

The radar specification is announced in less than 1 second