

## SSPD 2015 Keynote abstract

### **How signal processing underpins Military Information Superiority**

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The Military has a number of critical challenges for information superiority, resulting from global changes such as the transforming character of warfare and conflict, the rapid onset of the “information age” and the ever-present downward pressure on spending. Military information superiority, i.e. the ability to out-sense, out-process and out-think our adversaries, is a critical competitive advantage but one that is becoming increasingly difficult to maintain. Trends such as novel information age threats, ubiquity of information and changes to the operating environment create astonishing challenges for the Military. However, at a fundamental level the technical problem remains the same: extraction of useful, timely information from ‘signals’, in their widest form.

This presentation discusses the nature of military signal processing and how it has, in the past, and can, in the future, support military information superiority. Prof. Endersby discusses global trends and the impact they will have on military requirements for signal processing, and how opportunities exist if we exploit the convergence of military and civilian signal processing developments.