

Special Issue

Signal Processing in Radar and Wireless Communication Systems

Message from the Guest Editors

Radar technology, once only used in military systems, is becoming useful for common devices in various commercial applications, including remote-sensing, vehicle driver assistance, gesture recognition, situational awareness, and health monitoring. Recently, various attempts have been made to endow wireless communication systems with radar capabilities, such as positioning, localization, and classification. Some examples include passive radar, radio frequency identification (RFID), and mobile localization using cellular or WiFi network signals. Radar systems with communication capabilities, however, have an even older history—as can be seen in mid-course interceptor missile guidance via fire control radar. Such joint processing of radar and communication is possible due to similarities in the nature of their target and symbol detection processes, which yield similarities in their respective hardware and algorithms.

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