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Imaging Radars: system architectures and technologies

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The potentiality of multichannel SAR, to provide wideswath and high resolution at the same time, has been described in many papers in the last past years. The scope of this paper is to address some of the architectural and technological aspects related to the implementation of a multichannel receiver for a multibeam SAR, with the objective to provide some solutions for different configurations with increased complexity. A further point is the exploitation of the multichannel configuration for the implementation of very high resolution modes.

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