

1. Record Nr.	UNINA9910141046003321
Titolo	2010 IEEE National Aerospace and Electronics Conference
Pubbl/distr/stampa	[Place of publication not identified], : I E E E, 2010
ISBN	9781424465781 1424465788
Descrizione fisica	1 online resource
Disciplina	681.2
Soggetti	Wireless sensor networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Sommario/riassunto	This paper describes the development of a software tool for simulating and generating fully parallel generic VHDL representations of Fast Fourier Transforms. Several fixed-point number optimizations are described with emphasis on maximizing speed and/or minimizing FPGA area. Twiddle factor bit precision and its effects on FPGA area usage are also explored.