IJDACR
ISSN: 2319-4863

IJDACR
International Journal Of Digital Application & Contemporary Research

International Journal of Digital Application & Contemporary research
Website: www.ijdacr.com (Volume 3, Issue 7, February 2015)

OS-CFAR Based on Insertion Sorting Algorithm Using Linked-List Structure

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***Abstract*—CFAR is used to detect the target keeping constant false alarm rate. CA-CFAR is simplest method used for target detection but it is not effectively work in non-homogeneous environment. OS-CFAR is effective than CA-CFAR in non-homogeneous environment. It uses sorting algorithm based on rank but this method is highly computational. In this paper, we proposed new method for sorting for OS-CFAR. Anchor based insertion and sorting in Linked-List based structure which represents ordered sequence and Anchors represents featured samples. This scheme reduces computations and this is verified through results.**

***Index Terms*—CFAR, link list, ordered statistics, insertion, sort.**