

International Symposium on
HYDROACOUSTICS AND ULTRASONICS
EAA Symposium (formerly 13th FASE Symposium)
Gdańsk-Jurata, 12-16 May 1997

**ESTIMATION OF FREQUENCIES OF MULTIPLE SINUSOIDS IN CASE
OF LONG DATA RECORDS**

Nidal Kamel

Tishreen University, Electronic Department, Lattakia, Syria

ABSTRACT

During the last three decades many estimation algorithms were proposed as a solution to the underwater object identification problem. In this paper two estimation algorithms based on different basis of signal processing were investigated. The *direct* algorithm was introduced as a representative of the so called classical or Transform-based methods, and the *Modified-FBLP* was introduced as a representative of the parametric ones. The performance and the practical potential of both algorithms were tested in case of long data records and low SNR values.