

Coherent digital sonars with optimal signal processing

Arro, Ilmar; Portsmuth, Raivo; **Ruuto, Urmas** UDT EUROPE 98 : Undersea Defence Technology : 23-25 June 1998, London, UK : conference proceedings 1998 / p. 61-63

Estonian maritime cluster

Portsmuth, Raivo; Hunt, Tõnis; Terk, Erik; Nõmmela, Kaidi; **Hartikainen, Anni** 2012 https://www.esther.ee/record=b2774777*est

High resolution multi-beam sonar [Electronic resource]

Arro, Ilmar; Portsmuth, Raivo; **Ruuben, Toomas** UDT Europe 2000 : conference proceedings 2000 / [6] p. : ill. [CD-ROM]

Merenduse klasteruuring

2011 https://www.esther.ee/record=b2776198*est

Multichannel sonar system with digital processing

Arro, Ilmar; Portsmuth, Raivo Conference proceedings UDT 1996 / p. 40-43