

### **Acoustic noise pattern detection and identification method in Doppler system**

**Berdnikova, Julia; Ruuben, Toomas; Kozevnikov, V.; Astapov, Sergei** Elektronika ir elektrotehnika = Electronics and electrical engineering 2012 / p. 65-68 : ill <https://eejournal.ktu.lt/index.php/elt/article/view/2632>

### **Acoustic noise pattern detection and identification method in doppler system**

**Berdnikova, Julia; Ruuben, Toomas; Kozevnikov, Valeri; Astapov, Sergei** Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK kuuenda aastakonverentsi artiklite kogumik : 3.-5. oktoobril 2012, Laulasmaa 2012 / p. 13-16 : ill

### **Advanced FFT and block-phase beamforming for sensor arrays**

**Ruuben, Toomas** Proceedings of the conference "Undersea Defense Technology Europe 2005" : June 21-23, 2005, Amsterdam 2005 / p. ?

### **Data post-processing algorithms for active forward-looking sonar system**

**Berdnikova, Julia; Kozevnikov, V.; Ruuben, Toomas; Raja, Aimur** Elektronika ir elektrotehnika = Electronics and electrical engineering 2011 / p. 43-46 : ill

### **Droonid ja tarkvararaadiod ehk väikeriigi õppetunde elektroonilisest võitlusest**

**Piip, Kaarel; Mürsepp, Ivo; Ruuben, Toomas** Sõjateadlane = Estonian journal of military studies 2025 / lk. 53 - 79  
[https://www.kvak.ee/files/2025/02/ST\\_24\\_veebifail.pdf](https://www.kvak.ee/files/2025/02/ST_24_veebifail.pdf)

### **High resolution multi-beam sonar [Electronic resource]**

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

### **Improved mitigation of self-phase modulation induced impairments in 28 GBaud phase-sensitive amplified links**

**Astra, Egon; Eliasson, Henrik; Ruuben, Toomas; Andrekson, Peter** Avo Optics express 2019 / p. 4304-4316 : ill  
<https://doi.org/10.1364/OE.27.004304> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A method to improve instationary force error estimates for undulatory swimmers**

**Tuhtan, Jeffrey Andrew; Toming, Gert; Ruuben, Toomas; Kruusmaa, Maarja** Underwater technology 2016 / p. 141-151 : ill  
<https://doi.org/10.3723/ut.33.141> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Mobiilsed sisuteenused ja GSM-tehnoloogiad**

**Ruuben, Toomas** A & A 2004 / 1, lk. 21-27 : ill

### **Mobiilsed sisuteenused ja USSD-tehnoloogia**

**Ruuben, Toomas** A & A 2004 / 3, lk. 34-44

### **Multibeam sonar with spread spectrum signals**

**Arro, Ilmar; Ruuben, Toomas; Koževnikov, Valeri** UDT Europe 2001 : Undersea Defence Technology : conference and exhibition : Hamburg, 26-28 June, 2001 : conference proceedings 2001 / [6] p

### **Optimal waveform selection for software defined data acquisition system**

**Ruuben, Toomas; Berdnikova, Julia; Mürsepp, Ivo; Madar, Urve** Proceedings of the Fourth European Conference on Antennas and Propagation : EuCAP 2010 : Barcelona, Spain, 12-16 April 2010 2010 / p. 3268-3272 <https://ieeexplore.ieee.org/document/5505286>

### **Probe signals with nonrectangular envelope**

**Mürsepp, Ivo; Berdnikova, Julia; Ruuben, Toomas; Madar, Urve** Elektronika ir elektrotehnika = Electronics and Electrical Engineering 2010 / 5, p. 99-102 : ill <https://eejournal.ktu.lt/index.php/elt/article/view/9443>

### **Resolution and Doppler tolerance of cognitive system waveforms**

**Berdnikova, Julia; Ruuben, Toomas; Mürsepp, Ivo; Lossmann, Eerik** Elektronika ir elektrotehnika = Electronics and electrical engineering 2010 / 7, p. 101-104 : ill <https://eejournal.ktu.lt/index.php/elt/article/view/9331>

### **Route planning in asymmetric military environments**

**Ruuben, Toomas; Kreison, Ove** 2013 Second International Conference on Future Generation Communication Technology (FGCT) : December 12-14, 2013, City Conference Center, Holborn, London 2013 / p. 73-80 : ill

### **Sniper line-of sight calculations for route planning in asymmetric military environments**

**Kreison, Ove; Ruuben, Toomas** Modelling and Simulation for Autonomous Systems : Third International Workshop, MESAS 2016, Rome, Italy, June 15-16, 2016 : revised selected papers 2016 / p. 359-370 : ill [https://doi.org/10.1007/978-3-319-47605-6\\_29](https://doi.org/10.1007/978-3-319-47605-6_29)  
[Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

### **SNR estimation in HF communications channel**

**Ruuben, Toomas; Meister, Mari-Anne; Lossmann, Eerik; Berdnikova, Julia; Madar, Urve** 6th European Conference on Antennas and Propagation (EUCAP) 2012 / p. 2013-2015 : ill <https://ieeexplore.ieee.org/document/6205874>

### **Software defined short-range naval surveillance radar**

**Taklaja, Andres; Madar, Urve; Müürsepp, Ivo; Ruuben, Toomas; Berdnikova, Julia** Software Defined Radar : proceedings of the NATO Research & Technology Organisation (RTO) : SET-136 Specialist Meeting on "Software Defined Radar" : Lisbon (Portugal), June 23-25, 2009 2009 / ? p

### **Some method of signal processing and beamforming in hydrographic applications**

**Ruuben, Toomas; Derkatš, Julia** Elektronika ir elektrotehnika = Electronics and electrical engineering 2008 / 6, p. 27-32 : ill  
[https://www.researchgate.net/publication/228346328\\_Some\\_Methods\\_of\\_Signal\\_Processing\\_and\\_Beamforming\\_in\\_Hydrographic\\_Applications](https://www.researchgate.net/publication/228346328_Some_Methods_of_Signal_Processing_and_Beamforming_in_Hydrographic_Applications)

### **Some signal processing aspects in software defined radios**

**Meister, Ants; Ruuben, Toomas** Elektronika ir elektrotehnika = Electronics and electrical engineering 2008 / 4, p. 97-100 : ill  
<https://eejournal.ktu.lt/index.php/elt/article/view/11143>

### **The dynamics of signals with spread spectrum in sensor arrays [Electronic resource]**

**Ruuben, Toomas** UDT Europe 2002 : Undersea Defence Technology : conference and exhibition 2002 / [9] p. [CD-ROM]  
<https://ieeexplore.ieee.org/document/4458732>

### **The dynamics of signals with spread spectrum in sensor arrays, some aspects of digital beamforming**

**Ruuben, Toomas** 2nd European Conference on Antennas and Propagation : EuCAP 2007 : 11-16 November 2007 EICC, Edinburgh, UK 2007 / [8] p. : ill <https://ieeexplore.ieee.org/document/4458732>

### **The influence of the changes of wave propagation speed on sensor arrays [Electronic resource]**

**Ruuben, Toomas** UDT Europe 2003 : Undersea Defence Technology : conference & exhibition, Malmö, Sweden, 24-26 June 2003 : conference proceedings 2003 / [10] p. : ill. [CD-ROM]

**Transmission fiber nonlinearity mitigation in optical communication links using phase-sensitive parametric amplifiers = Edastusfiibri mittelineaarsete mõjutuste vähendamine optilistes sidesüsteemides faasitundlike parameetriliste võimendite abil**

**Astra, Egon** 2019 <https://digikogu.taltech.ee/et/Item/2a85df1e-6c58-45ef-8814-29510894bfc3>

**Wideband digital beamforming in sonar systems = Suunadiagrammide digitaalne formeerimine laiaribalistes sonarsüsteemides**

**Ruuben, Toomas** 2009 [https://www.ester.ee/record=b2498198\\*est](https://www.ester.ee/record=b2498198*est)