

DAFTAR PUSTAKA

- [1] H. D. Griffiths, “New ideas in FM radar,” *Electron. Commun. Eng. J.*, vol. 2, no. 5, p. 185, 1990.
- [2] A. G. Stove, “Linear FMCW radar techniques,” *IEE Proc. F Radar Signal Process.*, vol. 140, no. 2, p. 137, 1993.
- [3] W. Sediono and A. A. Lestari, “2D Image reconstruction of radar INDERA,” in *2011 4th International Conference on Mechatronics: Integrated Engineering for Industrial and Societal Development, ICOM’11 - Conference Proceedings*, 2011, pp. 1–4.
- [4] J. Figueras i Ventura and H. W. J. Russchenberg, “IDRA: IRCTR drizzle radar,” in *Proceedings of the 3rd European Radar Conference, EuRAD 2006*, 2007, pp. 174–177.
- [5] O. Monserrat, M. Crosetto, and G. Luzi, “A review of ground-based SAR interferometry for deformation measurement,” *ISPRS J. Photogramm. Remote Sens.*, vol. 93, no. Supplement C, pp. 40–48, 2014.
- [6] L. Noferini, M. Pieraccini, G. Luzi, D. Mecatti, G. Macaluso, and C. Atzeni, “Ground-based radar interferometry for terrain mapping,” in *International Geoscience and Remote Sensing Symposium (IGARSS)*, 2006, pp. 2569–2572.
- [7] T. Helzel, L. Petersen, V. Mariette, and N. Thomas, “Accuracy and reliability of ocean current and wave monitoring with the coastal radar ‘WERA,’” in *OCEANS ’09 IEEE Bremen: Balancing Technology with Future Needs*, 2009, pp. 1–5.
- [8] Z. Dabiao, “Design of Automobile Collision Avoidance Warning System

- Based on LabVIEW 2 Virtual Instrumentation Technology 3 Circuit Constitution of the Warning System for Automobile Collision 4 Cesign of Automobile Collision Avoidance Warning System,” in *2007 8th International Conference on Electronic Measurement and Instruments*, 2007, pp. 0–3.
- [9] A. A. Lestari, P. Hakkaart, J. H. Zijderveld, F. V. D. Zwan, M. Hajian, and L. P. Ligthart, “INDRA: The indonesian maritime radar,” in *Proceedings of the 38th European Microwave Conference, EuMC 2008*, 2008, pp. 1600–1603.
- [10] A. A. Lestari, O. D. Winarko, H. Serliningtyas, and D. Yulian, “Development of the first Indonesian S-band radar,” in *2014 1st International Conference on Information Technology, Computer, and Electrical Engineering: Green Technology and Its Applications for a Better Future, ICITACEE 2014 - Proceedings*, 2015, pp. 461–463.
- [11] G. M. Brooker, “Mutual interference of millimeter-wave radar systems,” *IEEE Trans. Electromagn. Compat.*, vol. 49, no. 1, pp. 170–181, 2007.
- [12] Q. Li, W. Zhang, M. Li, J. Niu, and Q. M. J. Wu, “Automatic Detection of Ship Targets Based on Wavelet Transform for HF Surface Wavelet Radar,” *IEEE Geosci. Remote Sens. Lett.*, vol. 14, no. 5, pp. 714–718, 2017.
- [13] C. Wang, L. Xiao, and C. Ni, “On the detection performance analysis of ship radar under interference environment,” in *2017 International Applied Computational Electromagnetics Society Symposium (ACES)*, 2017, pp. 2–3.
- [14] M. Hyodo, K. Abedin, and N. Onodera, “Beat-signal synchronisation for optical generation of millimetre-wave signals,” *Electronics*, vol. 39, no. 24, pp. 5–6, 2003.
- [15] M. Tudose, A. Anghel, R. Cacoveanu, and M. Datcu, “On the beat signal synchronisation of interferometric FMCW radars,” *IET Radar, Sonar Navig.*,

vol. 11, no. 8, pp. 1181–1187, 2017.

- [16] J. D. Park, W. J. Kim, and C. W. Lee, “A novel method for beat frequency error correction for a low cost FMCW radar using VCO sweep characteristics,” in *EURAD 2005 Conference Proceedings - 2nd European Radar Conference, 2005*, vol. 2005, pp. 387–390.
- [17] B. Güner, J. T. Johnson, and N. Niamsuwan, “Time and frequency blanking for radio-frequency interference mitigation in microwave radiometry,” *IEEE Trans. Geosci. Remote Sens.*, vol. 45, no. 11, pp. 3672–3679, 2007.
- [18] N. Niamsuwan, J. T. Johnson, and S. W. Ellingson, “Examination of a simple pulse-blanking technique for radio frequency interference mitigation,” *Radio Sci.*, vol. 40, no. 5, pp. 1–11, 2005.
- [19] R. D. de Roo, “A Simplified Calculation of the Kurtosis for RFI Detection,” in *IGARSS 2008 - 2008 IEEE International Geoscience and Remote Sensing Symposium, 2008*, vol. 2, p. II-327-II-330.
- [20] R. D. De Roo, S. . Misra, and C. S. Ruf, “Sensitivity of the Kurtosis Statistic as a Detector of Pulsed Sinusoidal RFI,” *IEEE Trans. Geosci. Remote Sens.*, vol. 45, no. 7, pp. 1938–1946, 2007.
- [21] S. S. Søbberg, J. Svoboda, J. E. Balling, and N. Skou, “Detection of radio-frequency interference in microwave radiometers using spectral kurtosis,” in *International Geoscience and Remote Sensing Symposium (IGARSS), 2012*, pp. 7141–7144.
- [22] J. M. Tarongi and A. Camps, “Normality analysis as a radio frequency interference detection,” in *2010 11th Specialist Meeting on Microwave Radiometry and Remote Sensing of the Environment, 2010*, pp. 288–293.
- [23] G. F. Forte, J. Querol, A. Camps, and M. Vall-Llossera, “Real-time RFI detection and mitigation system for microwave radiometers,” *IEEE Trans.*

- Geosci. Remote Sens.*, vol. 51, no. 10, pp. 4928–4935, 2013.
- [24] J. M. Tarongi and A. Camps, “Radio Frequency Interference detection algorithm based on spectrogram analysis,” in *2010 IEEE International Geoscience and Remote Sensing Symposium*, 2010, pp. 2499–2502.
- [25] J. M. Tarongi, G. F. Forte, and A. Camps, “Experimental study of radio-frequency interference detection algorithms in microwave radiometry,” in *2011 IEEE International Geoscience and Remote Sensing Symposium*, 2011, pp. 4213–4216.
- [26] G. F. Forte, J. M. Tarongi Bauza, V. Depau, M. Vall Llossera, and A. Camps, “Experimental study on the performance of RFI detection algorithms in microwave radiometry: Toward an optimum combined test,” *IEEE Trans. Geosci. Remote Sens.*, vol. 51, no. 10, pp. 4936–4944, 2013.
- [27] J. T. Johnson and L. C. Potter, “Performance study of algorithms for detecting pulsed sinusoidal interference in microwave radiometry,” *IEEE Trans. Geosci. Remote Sens.*, vol. 47, no. 2, pp. 628–636, 2009.
- [28] J. Querol, R. Onrubia, D. Pascual, A. Alonso-Arroyo, H. Park, and A. Camps, “Comparison of real-time time-frequency RFI mitigation techniques in microwave radiometry,” in *14th Specialist Meeting on Microwave Radiometry and Remote Sensing of the Environment, MicroRad 2016 - Proceedings*, 2016, pp. 68–70.
- [29] Z. Liu, H. Su, and Q. Hu, “Radio Frequency Interference Cancellation for Skywave Over-the-Horizon Radar,” *IEEE Geosci. Remote Sens. Lett.*, vol. 13, no. 3, pp. 304–308, 2016.
- [30] M. I. Skolnik, *Introduction to Radar System*, 3rd ed. 2002.
- [31] J. Figueras I Ventura, “Design of a High Resolution X-band Doppler Polarimetric Weather Radar,” 2009.

- [32] J. Vankka, "Methods of mapping from phase to sine amplitude in direct digital synthesis," *IEEE Trans. Ultrason. Ferroelectr. Freq. Control*, vol. 44, no. 2, pp. 526–534, 1997.
- [33] S. Plata, "FMCW radar transmitter based on DDS synthesis," in *16th International Conference on Microwaves, Radar and Wireless Communications, MIKON 2006*, 2007, pp. 1179–1183.
- [34] A. Meta, P. Hoogeboom, and L. P. Ligthart, "Signal processing for FMCW SAR," in *IEEE Transactions on Geoscience and Remote Sensing*, 2007, vol. 45, no. 11, pp. 3519–3532.
- [35] A. Meta, "Signal Processing of FMCW Synthetic Aperture Radar Data," TUDelft, 2006.
- [36] W. Sediono and A. A. Lestari, *Software Design to Simulate FMCW Radar Signal A Case Study of INDERA*. 2010.
- [37] F. D. Enggar, A. M. Muthiah, O. D. Winarko, O. N. Samijayani, and S. Rahmatia, "Performance comparison of various windowing On FMCW radar signal processing," in *2016 International Symposium on Electronics and Smart Devices (ISESD)*, 2016, pp. 326–330.
- [38] M. Turley, "Bandwidth formula for Linear FMCW radar waveforms," ... - *Surveillance a Safer World, 2009. RADAR. ...*, 2009.
- [39] M. Vossiek, P. Heide, M. Nalezinski, and V. Mágori, "Novel FMCW radar system concept with adaptive compensation of phase errors," in *1996 26th European Microwave Conference, EuMC 1996*, 1996, vol. 1, pp. 135–139.
- [40] H. Ahmed, A. Hafez, and A. Khalil, "Novel technique for reducing effects of non-linear frequency sweeps in LFM ranging radars," in *Design and Test Workshop (...)*, 2009, pp. 3–7.
- [41] S. M. Kay, "Fundamentals of Statistical Signal Processing: Estimation

- Theory,” *Technometrics*. p. 303, 1995.
- [42] S. M. Kay, “Fundamentals of Statistical Signal Processing, Volume 2: Detection Theory,” *Signal Processing*, vol. II. p. 672, 1998.
- [43] A. Camps and J. M. Tarongí, “RFI mitigation in microwave radiometry using wavelets,” *Algorithms*, vol. 2, no. 3, pp. 1248–1262, 2009.
- [44] R. D. De Roo and S. Misra, “A moment ratio RFI detection algorithm that can detect pulsed sinusoids of any duty cycle,” *IEEE Geosci. Remote Sens. Lett.*, vol. 7, no. 3, pp. 606–610, 2010.
- [45] L. H. Nguyen and T. D. Tran, “Efficient and Robust RFI Extraction Via Sparse Recovery,” *IEEE J. Sel. Top. Appl. Earth Obs. Remote Sens.*, vol. 9, no. 6, pp. 2104–2117, 2016.
- [46] Z. Chen, F. Xie, C. Zhao, and C. He, “Radio Frequency Interference Mitigation in High-Frequency Surface Wave Radar Based on CEMD,” *IEEE Geosci. Remote Sens. Lett.*, vol. 14, no. 5, pp. 764–768, 2017.
- [47] S. Misra, P. N. Mohammed, B. Guner, C. S. Ruf, J. R. Piepmeier, and J. T. Johnson, “Microwave radiometer radio-frequency interference detection algorithms: A comparative study,” *IEEE Trans. Geosci. Remote Sens.*, vol. 47, no. 11, pp. 3742–3754, 2009.
- [48] S. Ross, *Introduction to Probability and Statistics for Engineers and Scientists*. 2000.
- [49] R. C. Gonzalez, R. E. Woods, and B. R. Masters, *Digital Image Processing, Third Edition*, vol. 14, no. 2. 2009.