

## DAFTAR PUSTAKA

- [1] Naima Kaabouch and Wen-Chen Hu, *Handbook of Research on Software-Defined and Cognitive Radio Technologies for Dynamic Spectrum Management*. United State of America: IGI Global, 2014.
- [2] Matteo Gantetto, Andrea Fabio Cattoni, and Carlos Regazzoni, "A Distributed Approach to Mode Identification and Spectrum Monitoring for Cognitive Radio," , Genova, 2005.
- [3] Federal Communications Commissions, "ET Docket No 03-222 Notice of Proposed Rule Making and Order," Washington DC, 2003.
- [4] Hector Reyes, Sriram Subramaniam, Naima Kaabouch, and Wen-Chen Hu, "A Spectrum Sensing Technique Based on Autocorrelation and Euclidean Distance and Its Comparison with Energy Detection for Cognitive Radio Network," *Computers & Electrical Engineering*, vol. 52, pp. 319-327, May 2016.
- [5] Beibei Wang and K. J. Ray Liu, "Advances in Cognitive Radio Networks: A Survey," *IEEE Journal of Selected Topics in Signal Processing*, vol. 5, no. 1, pp. 5-23, February 2011.
- [6] Ian Fuat Akyildiz, Brandon F. Lo, and Ravikumar Balakrishnan, "Cooperative Spectrum Sensing in Cognitive Radio Networks: A survey," *Physical Communication*, vol. 4, no. 1, pp. 40-62, March 2011.
- [7] Zeljko Tabakovic, Sonja Grgic, and Mislav Grgic, "Dynamic Spectrum Access in Cognitive Radio," in *ELMAR '09. International Symposium*, Croatia, 2009.
- [8] R.S Firdhaust, "Perancangan dan Implementasi Prototype Spectrum Analyzer untuk Menganalisis Spektrum Sinyal dengan Frekuensi 0-160 MHz," Jurusan Teknik Telekomunikasi FTE Universitas Telkom, Bandung, Skripsi 2011.
- [9] Jernigan Eric, "Non-Parametric Power Spectrum Estimation Methods," in *SYDE 770 Image Processing*, 2002.
- [10] Simon S. Haykin, "Cognitive Radio: Brain-Empowered Wireless Communications," *IEEE Journal on Selected Areas in Communications*, vol. 23, no. 2, pp. 201-220, February 2005.
- [11] Mansi Subhedar and Gajanan Birajdar, "Spectrum Sensing Techniques in Cognitive Radio Networks: A Survey," *International Journal of Next-Generation Networks (IJNGN)*, vol. 3,



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CAPSTONE DESAIN SPECTRUM MONITORING BERBASIS WEB MENGGUNAKAN SDR (SOFTWARE DEFINED RADIO)-SPECTRUM

SENSING

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June 2011.

- [12] Kirti Arora, T.L Sngal, and Tulika Mehta, "Simulation of Probability of False Alarm and Probability of Detection Using Energy Detection in Cognitive Radio," *International Conference on Advances in Computer Science, Electronics & Communication Technologies (ACSECT 2015)*, vol. 6, no. 1, January 2015.
- [13] S.M. Brown, "A Single Semester Software Defined Radio Transceiver Implementation in A XILINX SPARTAN-3 FPGA," University Park USA, Report 2005.
- [14] Mitola J. III, "Software Radios. Survey, Critical, Evaluation, and Future Directions," in *IEEE National Telesystems Conference*, 1992.
- [15] M Abirami, V Hariharan, and dkk, "Exploiting GNU radio and USRP: An economical test bed for real time communication systems," in *4th International Conference on Computing, Communications and Networking Technologies (ICCCNT)*, Tiruchengode, India, 2013.
- [16] Reed Jeffrey H, *Software Radio A Modern Approach to Radio Engineering*.: Prentice Hall, Inc., 2005.
- [17] Giannini V, J Craninckx, and A Bschirotto, *Baseband Analog Circuits for Software Defined Radio*.: Springer Science & Business Media, 2008.
- [18] Sklar B, *Digital Communications Fundamentals, and Applications 2ed.*: Prentice Hall, 2001.
- [19] W Hioki, *Telecommunications,third edition*.: Community College of Southern Nevada, Prentice Hall International, Inc., 1998.
- [20] Peraturan Menteri Komunikasi dan Informatika, *PENATAAN PITA FREKUENSI RADIO 2.1 GHz UNTUK PENYELENGGARAAN JARINGAN BERGERAK SELULER IMT-2000*. Jakarta, 2006.
- [21] Mudrik Alaydrus, "Cognitive Radio: Sistem Radio Cerdas," *InComTech, Jurnal Telekomunikasi dan Komputer*, vol. 1, 2010.
- [22] Ginting, Ari Frahma. (2016) Analisis Kinerja Metode Energy Detection Blackman-Turkey dan Welch pada Kanal AWGN Aplikasi Cognitive Radio. [Online].  
<http://repository.usu.ac.id/>
- [23] Vaseghi, Saeed V, *Advanced Digital Signal Processing and Noise Reduction*, Second



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*Edition.*, 2000.

- [24] Petre Stoica and Randolph Moses, *Spectral Analysis of Signal*. Upper Saddle River, New Jersey, USA: Prentice Hall, Inc, 2005.
- [25] A.V. Oppenheim, A.S. Willsky dan S.H. Nawah, *Signals and Systems Second Edition*. New-Jersey: Prentice-Hall, Inc., 1999.
- [26] P Heckbert. (1998, Januari) Computer Graphics 2. [Online].  
<http://www.cs.cmu.edu/afs/andrew/scs/cs/15-463/2001/pub/www/notes/fourier>
- [27] K R.Srinath, *Python-TheFastest Growing Programming Language*.
- [28] Rafiq Mohammad and Eric John Wilson, "A Taste of Python - Discrete and Fast Fourier Transforms," in *ASEE Annual Conference & Exposition*, Seattle, Washington, 2015.
- [29] Numpy Developers. Numpy. [Online]. <https://numpy.org/>
- [30] Rohman Yasir Abdur. (2019) Pengenalan Numpy, Pandas, Matplotlib. [Online].  
<https://medium.com/@yasirabd/pengenalan-numpy-pandas-matplotlib-b90baf36c0>
- [31] Matplotlib Development Team. Matplotlib: Visualization with Python. [Online].  
<https://matplotlib.org/>
- [32] Python Software Foundate. Math-Mathematical Functions. [Online].  
<https://docs.python.org/3/library/math.html>
- [33] Fajar Ridwan. (2017, January) Menulis dan membaca File CSV di Python. [Online].  
<https://www.codepolitan.com/menulis-membaca-file-csv-di-python-588420f15d23f>
- [34] Yulio Anggri. (2017, November) Manipulasi File CSV dengan Python. [Online].  
<https://devtrik.com/python/manipulasi-file-csv-dengan-python/>
- [35] Python Software Foundate. CSV - CSV File Reading and Writing. [Online].  
<https://docs.python.org/3/library/csv.html>
- [36] Mwiti Derrick. (2018, Agustus) Dash for Beginners. [Online].  
<https://www.datacamp.com/community/tutorials/learn-build-dash-python>
- [37] Mutmainnah Iin. (2019, Januari) Mengenal Pandas dalam Python. [Online].  
<https://medium.com/@16611092/mengenal-pandas-dalam-python-cc66d0c5ea40>
- [38] Wahyu Aan. (2019, April) Belajar Pandas : Pengenalan Pandas dan Series. [Online].



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<https://petruknisme.com/2019/04/15/pengenalan-pandas-dan-series/>

[39] Wicaksono Sony. (2017) Academia. [Online]. <https://www.academia.edu/>

[40] Briliant Erzylia Herlin. (2019, Juni) Plotting Data Menggunakan R. [Online].

<https://medium.com/@16611077/plotting-data-menggunakan-r-f6252472ec74>

[41] Xiao Lu, Ping Wang, Dusit Niyato, and Ekram Hossain, "Dynamic Spectrum Access in Cognitive Radio Networks with RF Energy Harvesting," *IEEE Wireless Communication*, vol. 21, no. 3, pp. 102-110, June 2014.

[42] Sai Shankar Nandagopalan, Carlos Cordeiro, and Kiran Challapali, "Spectrum Agile Radios: Utilization and Sensing Architectures," in *First IEEE International Symposium on New Frontiers in Dynamic Spectrum Access Networks, 2005. DySPAN 2005.*, Baltimore, MD, USA, USA, 2005, pp. 160-169.

[43] Mohsen Riahi Manesh, Shakib Apu, Naima Kaabouch, and Wen-Chen Hu, "Performance Evaluation of Spectrum Sensing Techniques for Cognitive Radio Systems," in *2016 IEEE 7th Annual Ubiquitous Computing, Electronics & Mobile Communication Conference (UEMCON)*, New York, NY, USA, 2016.

[44] Gerald R. Faulhaber and David Farber, "Spectrum Management: Property Rights, Markets, and The Commons," 2002.

[45] Waleed Ejaz, Najam ul Hasan, Muhammad Awais Azam, and Hyung Seok Kim, "Improved Local Spectrum Sensing for Cognitive Radio Networks," *EURASIP Journal on Advances in Signal Processing*, vol. 2012, p. 242, November 2012.

[46] Z. Bao, B. Wu, P.-H. H. Ho and X. Ling, "Adaptive Threshold Control for Energy Detection Based Spectrum Sensing in Cognitive Radio Networks," in *2011 IEEE Global Telecommunications Conference - GLOBECOM 2011*, USA, 2012.