Reference Reading List

For EQ2440 GNUradio Hardware Implementation

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Below is a summary list of most relevant references which would be helpful for hardware implementation.

- Tools installation: GNUradio[1][2], wireshark2.3.0[3][4][5], UHD documentation[6]
- Environment setup, e.g., network interfaces settings, debugging, etc: [7][8][9][10]
- Principles w.r.t. IEEE 80211 Wifi Tx&Rx in GNUradio and surrounding publications: [11][12][13]
- Preliminary testbed reproduction with RFtap+wireshark: [14][15]
- Basic workflow in GNUradio and related tutorials on GUI etc: [16][17][18]
- Programming with C++: [19][20][21][22]
- Programming with python: [23][24][25]
- Python packages: PyQtGraph[26], pygame[27]

References

- [1] https://github.com/gnuradio/pybombs/blob/master/README.md
- [2] https://gnuradio.org/blog/pybombs-the-what-the-how-and-the-why/
- [3] http://installfights.blogspot.jp/2016/10/install-wireshark-23-on-ubuntu-1604.html
- [4] https://www.wireshark.org/download/automated/src/
- [5] https://askubuntu.com/questions/454734/running-wireshark-lua-error-during-loading
- [6] https://files.ettus.com/manual/page_identification.html
- [7] https://lists.gnu.org/archive/html/discuss-gnuradio/2012-03/msg00078.html
- [8] https://askubuntu.com/questions/430355/configure-a-network-interface-into-promiscuous-mode
- [9] https://stackoverflow.com/questions/33304828/when-trying-to-use-my-usrp-in-gnu-radio-iget-a-no-devices-found-for
- [10] https://askubuntu.com/questions/845482/connection-problem-with-ethernet

- [11] Bloessl, Bastian, et al. "An IEEE 802.11 a/g/p OFDM Receiver for GNU Radio." Proceedings of the second workshop on Software radio implementation forum. ACM, 2013.
- [12] Fuxjäger, P., et al. "IEEE 802.11 p transmission using GNURadio." 6th Karlsruhe Workshop on Software Radios (WSR). Karlsruhe, 2010.
- [13] https://www.wime-project.net/publications/
- [14] https://rftap.github.io/blog/2016/09/01/rftap-wifi.html
- [15] https://www.wime-project.net/
- [16] https://www.youtube.com/watch?v=ufxBX uNCa0&t=1015s
- [17] http://www.trondeau.com/blog/2015/4/9/qtgui-tools-and-tips
- [18] https://wiki.gnuradio.org/index.php/SuggestedReading
- [19] https://wiki.gnuradio.org/index.php/Guided_Tutorial_GNU_Radio_in_C%2B%2B
- [20] https://wiki.gnuradio.org/index.php/TutorialsDebugging
- [21] https://gnuradio.org/doc/doxygen/page _pmt.html
- [22] https://wiki.gnuradio.org/index.php/BlocksCodingGuide
- [23] http://gnuradio.org/doc/sphinx/
- [24] https://wiki.gnuradio.org/index.php/Guided_Tutorial_GNU_Radio_in_Python
- [25] https://wiki.gnuradio.org/index.php/OutOfTreeModules
- [26] http://www.pyqtgraph.org/
- [27] http://eyehere.net/2011/python-pygame-novice-professional-1/