

## Additional Resources

We **highly** recommend [this Github repository](#) as a resource to learn more about Kalman Filters. It contains interactive Jupyter notebooks which cover these algorithms in detail. Chapter 10 covers UKFs and 11 is on EKF.

### Extended Kalman Filters

Did you know that the Crazyflie uses an EKF for state estimation? The code is open source and you can [check out the repository here](#).

This implementation is based on two papers:

1. [A covariance correction step for Kalman filtering with an attitude](#)
2. [Fusing ultra-wideband range measurements with accelerometers and rate gyroscopes for quadrocopter state estimation](#)

### Unscented Kalman Filters

- [The Unscented Kalman Filter for Nonlinear Estimation](#) is a short paper (only 6 pages) and does a great job explaining the UKF.
- [A New Extension of the Kalman Filter to Nonlinear Systems](#) is a bit longer (12 pages) and includes some helpful example applications.
- [The Scaled Unscented Transformation](#) gives a mathematical derivation of the unscented transform.