



HECTOR – High Efficiency CT with Optimized Recursions Image Reconstruction Technology

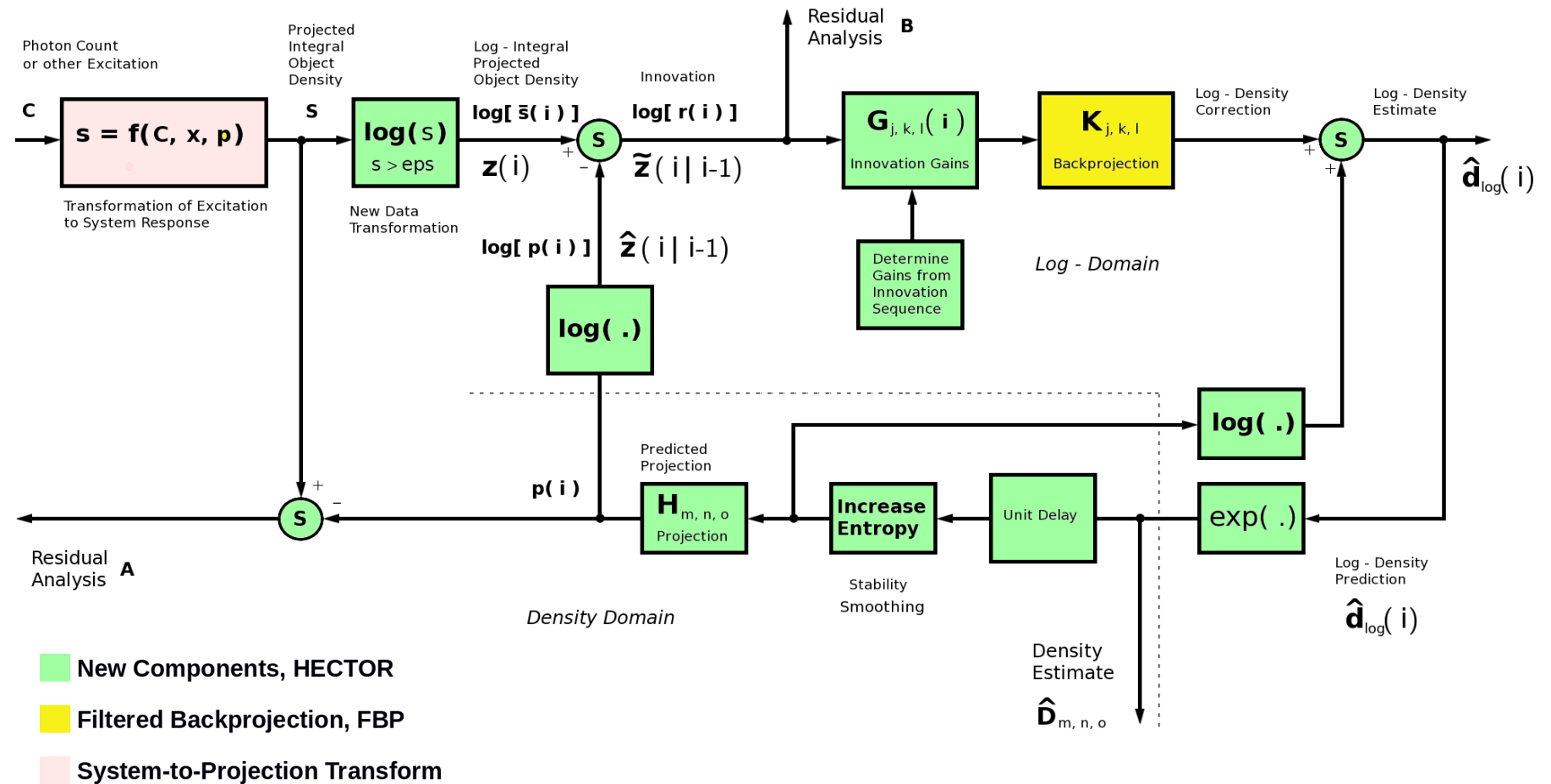
Cyber Technology, Inc.

Tomography3D.com

The new technology embeds existing tomographic algorithms and redirects their efforts to aim effectively at the solution of the reconstruction problem. Presently used algorithms may be compared to novice golf players who shoot only approximately and with many iterations towards the hole. By comparison, the new patented technology aims directly and with the proper strength at the hole (the correct image), and effectively hits the target with the fewest possible number of strikes.

HECTOR Advantages:

- Reduces radiation levels
- Requires small number of projections
- Achieves rapid reconstruction
- Auto-corrects for instrument alignment errors
- Produces high-quality image reconstruction (white noise residuals)



HECTOR's new components require less than 1% of the total computing effort. At the same time, HECTOR accelerates the overall computational speed 300-fold compared to conventional relaxation with non-linear iterative reconstruction methods. High contrasts are properly accounted for by the automatic Innovation Gain Adjustment in HECTOR.