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Reinhard Laubenbacher* (laubenbacher@uchc.edu), **Sherli Koshy Chenthittayil**, **Paola Vera-Licona**, **Michael Stevens** and **Andrew Poppe**. *The Dynamic Nature of Functional Brain Networks of Emotion Regulation*. Preliminary report.

Numerous psychiatric disorders, including Major Depressive Disorder and others are all thought to have underlying abnormalities in emotion regulation. Mostly, fMRI (functional MRI) scans of the patients either in resting state or while they are performing tasks are used to deduce network connectivity. The norm in the inference of neuroimaging network connectivity is to characterize a static representation of connectivity structure. However, such representations mask dynamic variation in the neural response as complex brain system interactions evolve over time. This talk will describe an approach to capturing some of the dynamic aspects of emotion regulation network connectivity, using probabilistic Boolean networks to infer dynamic signatures from a cohort of subjects. (Received September 18, 2018)