CCRMA Signal Processing Research Overview

Julius O. Smith III

Center for Computer Research in Music and Acoustics (CCRMA)

Department of Music, Stanford University, Stanford, California 94305 USA

1 Research Groups at CCRMA

Home pages for CCRMA research groups (signal processing and otherwise) may be found at https://ccrma.stanford.edu/groups/

2 Courses in Support of Signal Processing Research at CCRMA

- Music 320: Introduction to Digital Audio Signal Processing
- Music 420: Signal Processing Models in Musical Acoustics
- Music 421: Audio Applications of the Fast Fourier Transform
- Music 422: Perceptual Audio Coding
- Music 423: Research Seminar
- Music 424: Signal Processing Techniques for Digital Audio Effects

3 Online Books for Signal Processing Research at CCRMA

- 1. Mathematics of the Discrete Fourier Transform
- 2. Introduction to Digital Filters
- 3. Physical Audio Signal Processing
- 4. Spectral Audio Signal Processing

4 Software Projects at CCRMA

CCRMA software distributions are available online at

http://ccrma.stanford.edu/software/

5 Graduate Students in Signal Processing Research

Home pages of CCRMA graduate students may be found at

https://ccrma.stanford.edu/students/