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Areas of Teaching Interest:

- Communication Systems
- Spread Spectrum Communications
- Positioning Systems
- Healthcare Communication

Areas of Research Interest:

- Fast Algorithms
- Positioning and Navigation Algorithms
- GPS
- Galileo
- Kalman filtering
- CDMA acquisition techniques
- Digital Signal and Image Processing
- Signal Processing for Communications
- Dedicated Hardware Oriented Algorithms
- Parallel Calculations and Architectures
- Transforms
- Discrete Fourier Transform
- Filterbanks
- Wavelet theory

Publications

- **An Adaptive LMS Technique for Wavelet Polynomial Threshold Denoising**
S. Agaian, D. Akopian, J. Morales and S. Sathyanarayana, to be submitted.
- **Polynomial Threshold Denoising in the PCA Domain**
S. Agaian, D. Akopian and J. Morales, to be submitted.
- **Remote Laboratory Gateway**
D. Akopian, A. Gampe, G. Huang, Melkonyan and M. Pontual, IEEE Trans. on Learning Technologies, (November 2011).

Conference Proceedings

- **An Adaptive LMS Technique for Wavelet Polynomial Threshold Denoising**
S. Agaian, D. Akopian and S. Sathyanarayana, April 2011, accepted to SPIE Mobile Multimedia/Image Processing, Security and Applications 2011, Washington.
- **An Interpolation Filter Based on Wavelet Polynomial Threshold Operators**
S. Agaian, D. Akopian and M. Chan, April 2011, SPIE Mobile Multimedia/Image Processing, Security and Applications 2011, Washington.
- **A Polynomial Threshold Wavelet Denoising Approach for 3-D Biomedical Applications**
S. Agaian, D. Akopian, M. Chan and S. Sathyanarayana, April 2011, SPIE Mobile Multimedia/Image Processing, Security and Applications 2011, Washington.