

Session GG: (Focused Session)

Acoustic Charge Transport (ACT): The Signal Microprocessor

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The power of software-programmable signal processing is revolutionizing telecommunications, radar systems, spread spectrum radios and image-recognition systems. The computational requirements of such systems has demanded the use of larger and more powerful computers. The emerging signal microprocessor based on Acoustic Charge Transport (ACT) technology performs specialized signal processing functions up to three orders of magnitude faster than conventional computers and without the need for high speed A/D converters. This session will review development of ACT technology and present recent progress in such devices as programmable transversal filters and programmable tapped delay lines.

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10:00 a.m.-11:30 a.m., Thursday, May 10, 1990
West Ballroom C