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ELECTRICAL & COMPUTER ENGINEERING
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S E M I N A R

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Non-Conventional Signal Processing Integrated Circuits for Biomedical Wireless Sensors

by

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Abstract: The presentation will cover sensing, processing, and communication circuits in wireless sensors for biomedical applications. Some non-conventional signal processing methods and related integrated circuits will be presented, including event-based sampling circuits, oversampling digital signal processing circuits, and asynchronous radio communication circuits. The goal of these studies at NMSU is to provide low power, small form factor, reliable, accurate and inexpensive circuits and systems for biomedical wireless sensors. Potential applications include wearable medical device and home caring systems.

Dr. Wei Tang is currently an assistant professor in the Klipsch School of Electrical and Computer Engineering at New Mexico State University. His research interests are analog and mixed-signal integrated circuit design, application specific integrated circuit design, and RF low power integrated circuits and systems design for biomedical applications. Dr. Wei Tang received Bachelor of Science in microelectronics from Peking University, China, in 2006. He received the Ph.D. degree in electrical engineering from Yale University, Connecticut, in 2012.