

ELECTRICAL & COMPUTER ENGINEERING SEMINAR

“Applications of Hilbert Space Frames”

by

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Computer Science 305

Abstract & Biography

Abstract. Hilbert space frames have traditionally been used in signal/image processing. Recently, there have arisen a variety of new applications to speeding up the internet, producing cell phones which will not fade, quantum information theory, distributed processing and more. We will review the fundamentals of frame theory and then look at the myriad of applications of frames.

Biography. BIO: Peter G. Casazza received his Ph.D. degree from the University of Iowa in 1972. He has been at the University of Missouri since 1983. He was a National Academy of Sciences Fellow to the Soviet Union from 1977 to 1978. He has been a Visiting Scholar at the Hebrew University of Jerusalem, Cambridge University, England, and Odense University, Denmark. He has won the Outstanding Greek Faculty Award, the Student Athlete Most Inspiring Professor Award, and the Kemper Excellence in Teaching Award from the University of Missouri. He has been the Vice President of the Missouri MAA and is an Associate Editor of the Journal of Math Analysis and Applications. His research interests are in applications of harmonic analysis, functional analysis, operator theory, and number theory.

Please contact Prof. Ali Pezeshki, pezeshki@engr.colostate.edu, with any questions.