1125-94-1711   **Abdul J. Jerri*** (`jerria12@yahoo.com`), 69 Leroy Street, Potsdam, NY 13676. *Multivariate Sampling in Signal Processing: A Tutorial Review with Brief Analysis and Applications.*

The well known Shannon sampling theory is mainly for one variable signals.For its various aspects,to date we have many excellent overview treatments as tutorials and books.However,for the multivariate sampling theory,we have a good number of papers,but its overview is limited to only a couple of chapters in several books on sampling theory. The present talk centers on a tutorial review of the various aspects of the multivariate sampling for the past sixty years ,since it was suggested by Parzen in 1956. (Received September 18, 2016)