

## SPCOMIT Seminar Invitation

Title: On advanced transmission and receiving techniques for communication systems with non-linear power amplifiers.

Speaker: Ilia Iofedov (BGU)

### Abstract

The main focus of our research is on the problem of transmission through nonlinear channels. The non-linearity is commonly caused by a Power Amplifier (PA), which is one of the most important elements in communication systems. It plays a significant role of amplifying the desired signal, before transmitting it to the medium. Unfortunately, any real life PA is nonlinear resulting with a destructive influence on the transmitted signal and therefore on the quality and the throughput of the communication link. Recently, due to the rising demand of power efficient transmitters, have researchers begun to study the effect of real life PA on communication links. The scope of our research is to study the influence of nonlinear PA on communication links and to develop appropriate transmission schemes for a systems with nonlinear PA.

The seminar will take place on **Wednesday, 15-2-2017, 11:10, in room 102 building 33.**