

INSTITUTSKOLLOQUIUM

Am Montag, dem 15.06.2015, spricht um 13:30 im Raum Sr HU 013, Herr

Prof. Dr. Orhan Arikan

Electrical and Electronics Engineering Department, Bilkent University, Ankara

zum Thema:

Novel solutions to classical signal processing problems in an optimization framework

Recent advances in the optimization techniques enabled us to revisit some of the problems of the past and generate new solutions with more control. However, successful results are obtained only with the incorporation of the right domain knowledge. In this talk, to illustrate the performance improvements that can be obtained, three applications are presented:

1. Time-Frequency analysis of multicomponent signals
2. Design of orthogonal signal sets for ultrawideband communications
3. Phase only control of array antennas.

In all these applications both the respective domain knowledge and the used technique of optimization are highlighted.

Die Hochschullehrer des Instituts für Informationstechnik laden Sie herzlich dazu ein.

Ilmenau, den 09.06.2015