Dr. Arthur P. Berkhoff (A.P.) from TNO Acoustics and Sonar and University of Twente contributes to our IKS event series with a lecture entitled:

„Active Noise Control Algorithms in Time-Varying Environments”

This presentation discusses the behavior of active noise control algorithms in systems and environments which are time-varying. The applications range from traffic noise environments with rapidly changing geometries to slowly varying environments such as ventilation systems. Techniques are shown to realize adaptive MIMO controllers based on a stable preconditioning scheme. An efficient implementation of a MIMO Kalman active control scheme is presented, and its numerical behavior is discussed. Results are shown of a numerically stable mixed-window fast array algorithm and an extended version with simultaneous adaptive control and on-line secondary path estimation.

After the lecture, the guests have the opportunity to join an open discussion during a snack.