

KOLLOQUIUM

Prof. Dr. Frank Boland
Trinity College Dublin

ACOUSTIC RESPONSES AND SOURCE LOCALIZATION

The presentation will report on our work on estimating localization accuracy when using audio time-delay estimates in reverberant rooms. In this work we employed an extension of the Cramér-Rao lower limit on the variance of the estimate that takes account of anomalies arising due to reflections. A strategy for optimum placement of microphone arrays for speaker localization will be discussed. A study we have conducted of the performance of fusion strategies for combined audio-video localization will be summarized. The presentation will also introduce our current work on approximation and interpolation of binaural head and room impulse responses with some discussion of how this might be used in source localization.

Montag, 11.05.09, 17:30 Uhr

Informatik-Hauptgebäude (50.34), HS -101 (UG), Am Fasanengarten 5, 76131 Karlsruhe



Fakultät für **Informatik**

Fakultät für Informatik, Universität Karlsruhe (TH), Am Fasanengarten 5,
Geb. 50.34, 76131 Karlsruhe, Tel.: +49 721 608 8660, Fax.: +49 721 697 760,
E-Mail: doerrscheidt@kit.edu, www.informatik.kit.edu

Diese und weitere Veranstaltungsankündigungen
finden Sie unter:
<http://www.informatik.kit.edu/1496.php>