Einladung

zum Vortrag im Rahmen des **SFB Colloquiums** (Standort Linz), mit dem Titel

EC-(s,t)-weak tractability of multivariate linear problems in the average case setting

VORTRAGENDER: **Anargyros Papageorgiou**, Infineon Technologies Austria
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ZEIT: 15:45 Uhr
ORT: Science Park 2, SP2 416-1, JKU Linz

Abstract: We study E-(s,t)-weak tractability of multivariate linear problems in the average case setting. This extends our earlier work in the worst case setting. The parameters $s \geq 0$ and $t \geq 0$ allow us to study the information complexity $n(\varepsilon, d)$ of a d-variate problem with respect to powers of $\ln \varepsilon^{-1}$ and d. We consider the absolute and normalized error criteria. We deal with general linear problems and linear tensor product problems. We show necessary and sufficient conditions for EC-(s,t)-weak tractability. In the case of general linear problems these conditions are matching. For linear tensor product problems, we also show matching conditions with the exception of some cases where $s > 1$, in general.