

KOLLOQUIUM

Informatik-Sonderkolloquium

Application Areas for Classifier Fusion

Dr. Robert S. Lynch, Analytic Information Fusion Systems, USA

In this talk, robust methods of information fusion and classification are discussed, given all relevant information must be learned (supervised, unsupervised) from data. In this work, emphasis is on utilizing both feature level (extracted information from data for reducing bandwidth - can result in information loss) and decision level (most basic representation of data - can result in largest degree of information loss) fusion to make target present/absent decisions. Various application areas are illustrated using both real and simulated data, and with an emphasis on modeling information from sensors, waveforms, and images. The modeling of a fusion processor is based on a discrete Bayesian classifier, and its extensions, which leads to interesting quantitative and qualitative results about expected performance with data driven information fusion and classification.

KIT – Campus Süd, Fakultät für Informatik, Am Fasanengarten 5, 76131 Karlsruhe, www.informatik.kit.edu
Fraunhofer – Institut für Optronik, Systemtechnik und Bildauswertung, Fraunhoferstraße 1, 76131 Karlsruhe

Montag, 28.10.13, 10:00 Uhr

Fraunhofer IOSB, Max-Syrbe-Saal (2. OG), Fraunhoferstraße 1, 76131 Karlsruhe