

A Statistical Approach to Gas Distribution Modelling with Mobile Robots – The Kernel DM+V Algorithm

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- Kernel DM+V, a statistical approach for distribution modeling, is proposed.
- Models distribution mean *and* predictive variance.
- Quantitative comparison (using data likelihood of unseen samples) based on real world gas sensor data obtained with a mobile robot.
- Method to learn the hyper-parameters.
- Consistency of the obtained maps demonstrated.

