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Automatic configuration and calibration of modular sensing floors

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Abstract:

Sensing floors are becoming an emerging solution for many privacy-compliant and large area surveillance systems. Many research and even commercial technologies have been proposed in the last years. Similarly to distributed camera networks, the problem of calibration is crucial, specially when installed in wide areas. This paper addresses the general problem of automatic calibration and configuration of modular and scalable sensing floors. Working on training data only, the system automatically finds the spatial placement of each sensor module and estimates threshold parameters needed for people detection. Tests on several training sequences captured with a commercial sensing floor are provided to validate the method.

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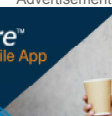
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