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(57) Abstract :

The venue inference system (100) encompasses a mobile device (102) integrated with a range of sensors, complemented by a Data Processing Unit (DPU) (112) powered by advanced algorithms for in-depth sensor data analysis. This processed data is stored in the memory (110) for efficient handling, while a dedicated storage component (114) accommodates a venue signature database (116) containing meticulously recorded reference point data. Crucially, the real-time venue Inference module (118) undertakes the role of dynamically comparing the ongoing sensor data from the mobile device with the pre-stored venue signatures, resulting in precise and up-to-the-moment determination of the user's exact venue location. Through this arranged sensor technology, processing prowess, and dynamic comparisons, the system empowers users with context-aware experiences, informed choices, and personalized interactions within the designated venue space.

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