Druma Technologies Pvt Ltd.

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Druma One technology overview

Is a state-of-the-art point detection model designed to address challenging issues in Computer Vision. Its **patented technology** enables real-time processing, making it ideal for applications that require high accuracy, speed, and compute efficiency.

[Please click here to view a demo output video.]

Performance comparison with SuperPoint

The below benchmarks were calculated on a video with dimensions 640 x 480 x 3.

GPU	Superpoint - FPS	SuperPoint - Avg Points Detected per image	Druma One - FPS	Druma One - Avg Points Detected per image
RTX 1060 Mobile	32.09	601.79	694.5	6839.65
2070	45.36	601.79	1009.95	6836.74
RTX 3050 Mobile	35.7	599.99	1079.04	6836.74
4070 Super	79.15	601.61	1145	6836.74

Druma One's performance can be enhanced using an **in-house developed IC [Integrated Circuit]**. This IC can be seamlessly integrated with existing image processing ICs or paired with microprocessors/microcontrollers, further reducing FPS and enhancing efficiency.

Applications-

1. **Autonomous Vehicles** - Implementing obstacle detection, lane keeping, and navigation systems for autonomous driving.
2. **Augmented Reality [AR]** - Enabling real-time point detection for immersive AR experiences.
3. **Robotics and Drones** - Assisting in object detection, collision avoidance, and path planning for autonomous robots and drones.
4. **Simultaneous Localization And Mapping [SLAM]** - Enhancing robot navigation and 3D mapping in dynamic environments.
5. **Medical Imaging** - Improving diagnostic processes through the identification of critical anatomical points or lesions, aiding in more precise medical decisions.

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