SLAMcore teams up with Intel RealSense technology with first “out-of-the-box” SLAM algorithms

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Combination of cutting-edge hardware and software delivers powerful spatial AI solution for mass adoption in autonomous robots

London. 24th August 2020. SLAMcore, a leader in Visual SLAM and Spatial AI systems essential for autonomous robot navigation has been added to the Intel RealSense software program. SLAMcore’s are the first Simultaneous Localization and Mapping (SLAM) algorithms to be included in the programme.

Vision is increasingly understood to be a key component in SLAM providing not only 3D-depth perception but additional rich information that increases detail of maps, enables faster location, and supports complex semantic segmentation of objects within scenes. Robust, reliable and commercially viable cameras are an essential element of today’s leading SLAM solutions. The Intel RealSense Depth Camera D435i combines a wide field of view and great low?light sensitivity with an inertial measurement unit (IMU). It is a powerful solution for autonomous robotics solutions where small form-factor and light weight are as important as exceptional performance.

SLAMcore is a world leader in localization and mapping for affordable hardware. Its multi-sensor algorithms have vision at their core and the SLAMcore Spatial AI SDK has been optimized for the Intel RealSense Depth Camera D435i. Developers can be confident that the SLAMcore SDK will work straight out of the box with the depth camera D435i sensor to provide capabilities including lighting invariant six degrees of freedom (6DoF), localization and global/local mapping for a wide range of autonomous robotic platforms.

SLAM remains one of the hardest development issues for many robot developers, consuming significant time and resources. SLAMcore’s vision is to provide commercial-scale SLAM solutions that can be optimized for a wide range of hardware and sensors so that developers can concentrate on the specific capabilities of their robots rather than struggling to solve simultaneous mapping and localization challenges.

Owen Nicholson, CEO at SLAMcore, commented; “Working as an Intel RealSense Software partner, we can accelerate the deployment of capable autonomous robots in many walks of life. Our software and Intel’s sensors will help robot developers crack the SLAM challenge quickly and cost effectively.”

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