

SigmaFusion™

SAFELY DRIVING AUTONOMOUS TRANSPORTATION WITH LOW POWER SENSOR FUSION SOLUTION

+ WHAT IS SigmaFusion™?

Autonomous vehicles will soon be a part of everybody's driving experience. SigmaFusion™ processes information signaled by car sensors such as Stereo camera, Radar and Ultrasound. **It turns the many incoming data into an information model of the surrounding environment to guarantee safe driving.**

SigmaFusion™ offers:

- ASIL-D qualifiable multi-sensor environment perception
- Safe assessment of the free space
- Accurate and predictable implementation
- Low power and low cost integration
- ADAS functional safety improvement through a stand-alone solution
- Safety companion for Artificial Intelligence algorithms

+ APPLICATIONS

Embedded into an automotive MCU, **SigmaFusion™ is ready to be integrated in the upcoming vehicles.**

As a stand-alone solution, it provides fail-operational perception of the vehicle environment for ADAS functions.

As a safety companion solution, it increases the functional safety of AI algorithms implemented on number-cruncher platforms.



+ WHAT'S NEW?

- Compatible with any kind of range sensor
- Low-power: enables automotive functions under the 3-Watts barrier
- Ultra-compact: fits into existing automotive microcontrollers

STAND-ALONE FOR ADAS FUNCTION



SAFETY COMPANION SOLUTION



+ WHAT'S NEXT?

Leti is looking for new collaborations to fully implement SigmaFusion™ into automotive functions, as well as environment perception functions for drones, automated guided vehicle, construction or farming equipments. SigmaFusion™ solution can easily be integrated to create cutting-edge products.

INTERNATIONAL RECOGNITION:



Nuremberg, Germany
February 27 - March 1st, 2018



Las Vegas, NV
2017 & 2018



Strasbourg, France | 19-22 June 2017



San Francisco, CA
December 3-7, 2016



Messe Stuttgart
November 8-10, 2016



Grenoble, France
October 25-27, 2016



Austin, TX & San Francisco CA
2016 & 2018

INTERESTED IN THIS TECHNOLOGY?

Contact:

Marie-Sophie Masselot

marie-sophie.masselot@cea.fr

+33 438 783 830

Leti, technology research institute

Commissariat à l'énergie atomique et aux énergies alternatives
Minatec Campus | 17 avenue des Martyrs | 38054 Grenoble Cedex 9 | France
www.leti-cea.com

