The Software/Hardware Integration Lab (LISHA) was founded in 1985 to promote research in the frontiers between hardware and software. Since then, it has dedicated considerable efforts to research in areas such as computer architecture, operating systems, computer networks and the related applications. Currently, the laboratory focuses on innovative techniques and tools to support the development of embedded systems.

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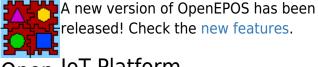
PS



LISHA is part of **EMBRAPII** MOVE

SBESC 2021 and LADC 2021

LISHA hosted SBESC 2021 and LADC 2021, the reference conferences of Computer Engineering and Dependability in Latin America.

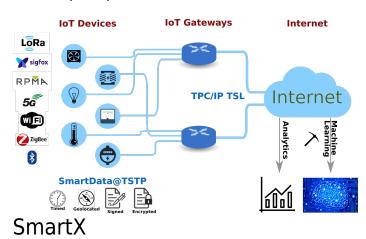


Open IoT Platform

EPOS LISHA's IoT Platform now supports dozens of research projects. For further 2.2 information about how to join it, please check this link.

SmartData

A new version of LISHA's IoT Platform based on SmartData and the Trustfull Space-Time Protocol(TSTP) is now available!



LISHA's CPS Management Platform is now fully integrated with the IoT Platform, adding features such as defect tracking, logging, geolocation, and service ticketing.

LISHA is a founding member of UFSC's **Research Center for Cyber-physical** Systems Security (SecCPS).

UFSC Secces LISHA, mobway, Bosch, LISHA Renault, and Stellantis for İS Automotive Big Data part

LISHA, mobway, Bosch, Renault, and Stellantis are working together in the SecC area of secure Automotive Big Data infrastructures to aggregate and process large volumes of data from various sources related to connected vehicles and supporting application scenarios involving Artificial Intelligence and data analysis tools.



LISHA, Intelbras, and Yak for Vehicles@5G

LISHA, Intelbras, and Yak are working together on the utilization of low-level 5G protocols for vehicular telemetry and supervision within the paradigm of the Internet of Things (IoT). Access the project page for more info.

OBNZip

LISHA and LVA are working together to make Ocean Bottom Nodes more intelligent. We will build a multidisciplinary team to develop advanced compression algorithms and machine

MCTIC's IA² Program

LISHA is now part of MCTIC's IA² Program. Prof. Gustavo Medeiros de Araújo will be working together with accelerators HARDS and DARWIN and SOFTEX to support startups while innovating with AI solutions to real problems. learning models to handle submarine seismic signals. Check the open positions and join us on this journey.

Rota 2030 with Renault

LISHA and Renault are joining forces to develop innovative solutions for the automotive industry in the realm of Program Rota 2030. Prof. Giovani Gracioli will lead a team of experts at LISHA on the pursuit of an Intelligent Data Acquisition and Analysis System for Automotive Controllers.

