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*.

LISHA is part of [EMBRAPII MOVE](https://www.embrapii.org/)

LISHA is part of the recently created [EMBRAPII Institute for Mobility Technologies (MOVE)](https://www.embrapii.org/).

**SBESC 2021 and LADC 2021**


**OpenEPOS 2.2**

A new version of OpenEPOS has been released! Check the [new features](https://www.openepos.org/).

**IoT Platform**

[LISHA's IoT Platform](https://www.iotplatform.org/) now supports dozens of research projects. For further information about how to join it, please check [this link](https://www.iotplatform.org/).

**SmartData**

A new version of [LISHA's IoT Platform](https://www.iotplatform.org/) based on SmartData and the Trustfull Space-Time Protocol (TSTP) is now available!

LISHA and [AQTech](https://www.aqtech.org/) are working together to make hydroelectric power generators more intelligent.
**SmartX**

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

**Prof. Fröhlich** will lead a multidisciplinary team to develop advanced tools for predictive maintenance of large hydroelectric generators. 

**Read more** ...

**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.