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Cellular Computing and Least Squares for partial differential problems parallel solving

Nicolas Fressengeas ¹  

Correspondent author

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Hervé Frezza-Buet ²   **AuthorId : 1006848**

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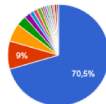
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- Head of the Optical Materials and Photonic Systems Laboratory (LMOPS)
- Missionned for "Open Science" the Lorraine university

Details and opinions in French :

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- Frédéric Genty (18)
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Optical materials, photonics and systems laboratory

The optical materials, photonics and systems laboratory (LMOPS)^[1] gathers researchers from [Lorraine university](#)^[2] and from [CentraleSupélec](#)^{[3], [4]} in the cities of Metz, Saint-Avold and Thionville. The research themes lie in the fields of materials in general and optical materials more specifically, non linear optics, optical sensors and photovoltaics. Almost 30 researchers are working in the laboratory, side by side with roughly the same number of PhD students. The LMOPS was created in the year 2000, building from its ancestor, the [Laboratoire Matériaux optiques à propriétés spécifiques](#)^[5] which belonged to the [Metz university](#), which teamed with [Supélec](#) in 2000.

Whereabouts

The LMOPS laboratory is spread over 4 cities:^[1]

Its central part is situated in the [Technopôle de Metz](#) within the Metz campus of [CentraleSupélec](#).
A second site in Metz is hosted by the [Sciences fondamentales et appliquées Lorraine university unit](#), within the Institute for Material Physics and Chemistry
The [Saint-Avold](#) site is hosted by the [Institut universitaire de technologie de Moselle-Est](#), within the [Lorraine university](#)
The [Thionville](#) site is hosted by the [Institut universitaire de technologie de Thionville-Yutz](#) within the [Lorraine university](#).

Research teams

The research activities within the LMOPS^[6] are structured through 4 research teams.^[7]

The [Functional Materials](#) team deals with materials in general, particularly optical materials and polymers
The [Photonics](#) team is mainly devoted to non linear optics
The [Raman sensors & Optical control](#) team has a strong background in [Raman spectroscopy](#)
The [Photovoltaics](#) team studies materials and systems for the harvesting of solar energy

Facilities

The LMOPS laboratory can rely on many optical spectrometers. One of the team is specialized in [Raman Spectroscopy](#) and thus works with many kinds of [Raman spectrometers](#). In the laboratory can also be found [absorption spectrometers](#), as well as [X fluorescence spectrometers](#).

The electrical characterization of materials and devices is also an important aspect of the LMOPS activities. Facilities are available for measuring [current-voltage](#) curves, as a function of temperature if necessary, for determining the [charge carriers](#), and for measuring [capacity-voltage](#) and [impedance](#) curves.

Finally, and omitting the many [Laser](#) sources which are always needed in such a laboratory, the LMOPS can rely on heavy equipment for actual material fabrication, such as ovens using the [Czochralski](#) process to grow bulk non linear crystals which are to be used for laser frequency doubling, as well as [MOVPE](#) equipments for the deposition of thin layers of [semi-conductors](#). These heavy equipments are completed by a [lightweight micro-pulling down](#) crystalline fibre machine.

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Cong Xin, Philippe Veber, Mael Guennou, Constance Toulouse, Nathalie Velle, et al. [Single crystal growth of BaZrO3 from the melt at 2700 °C using optical floating zone](#)

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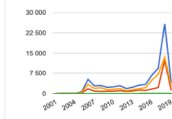
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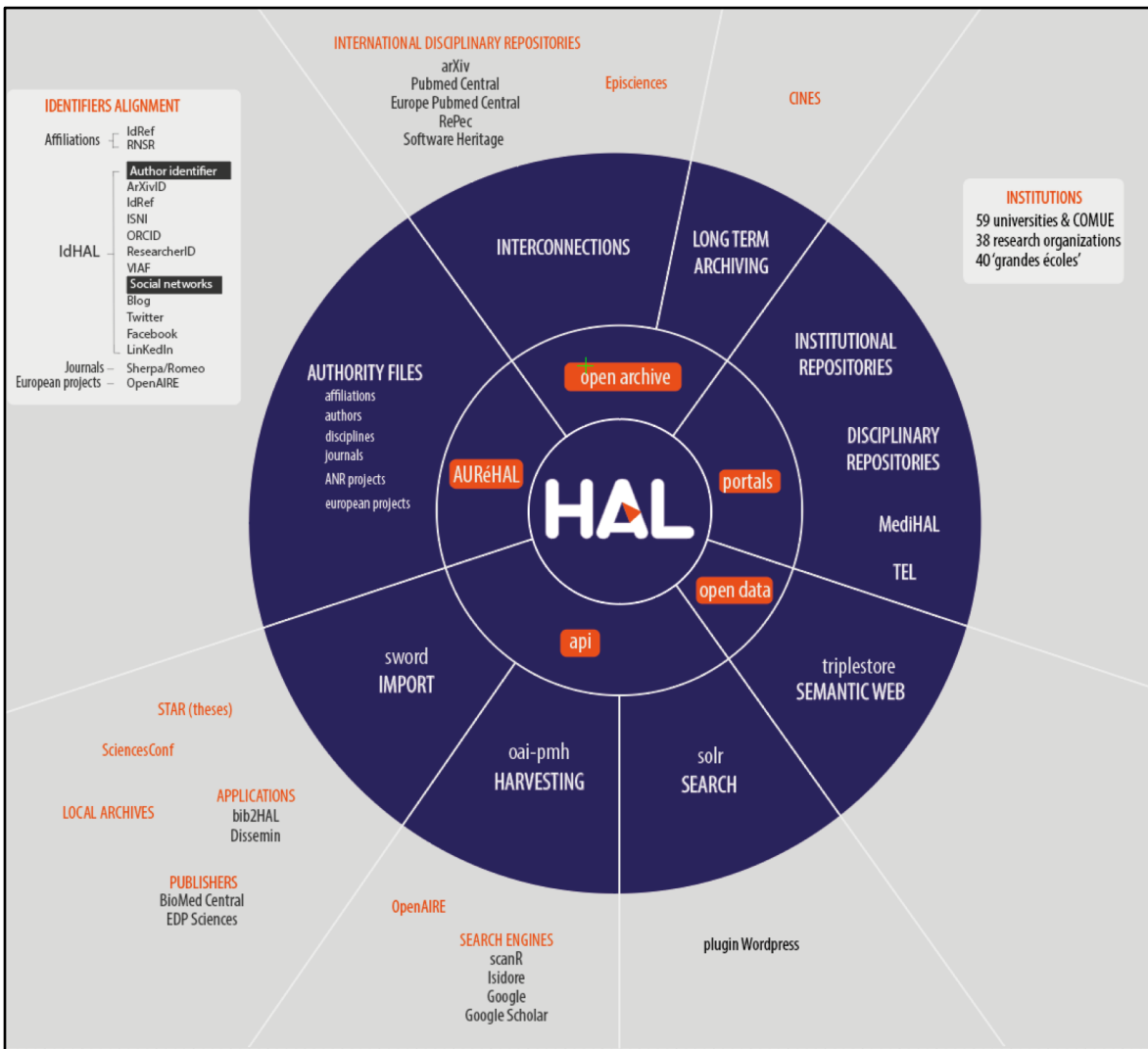


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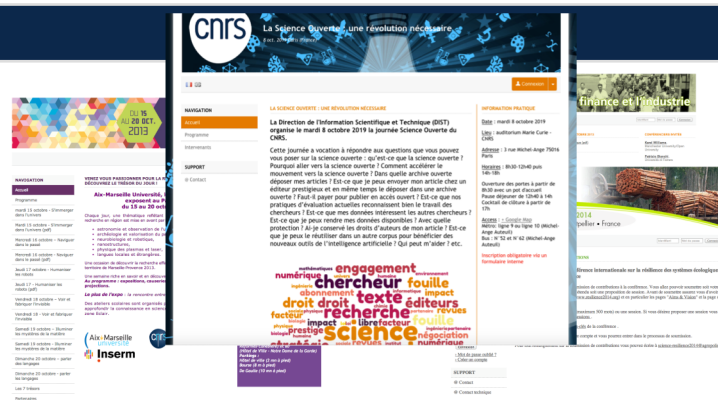
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4



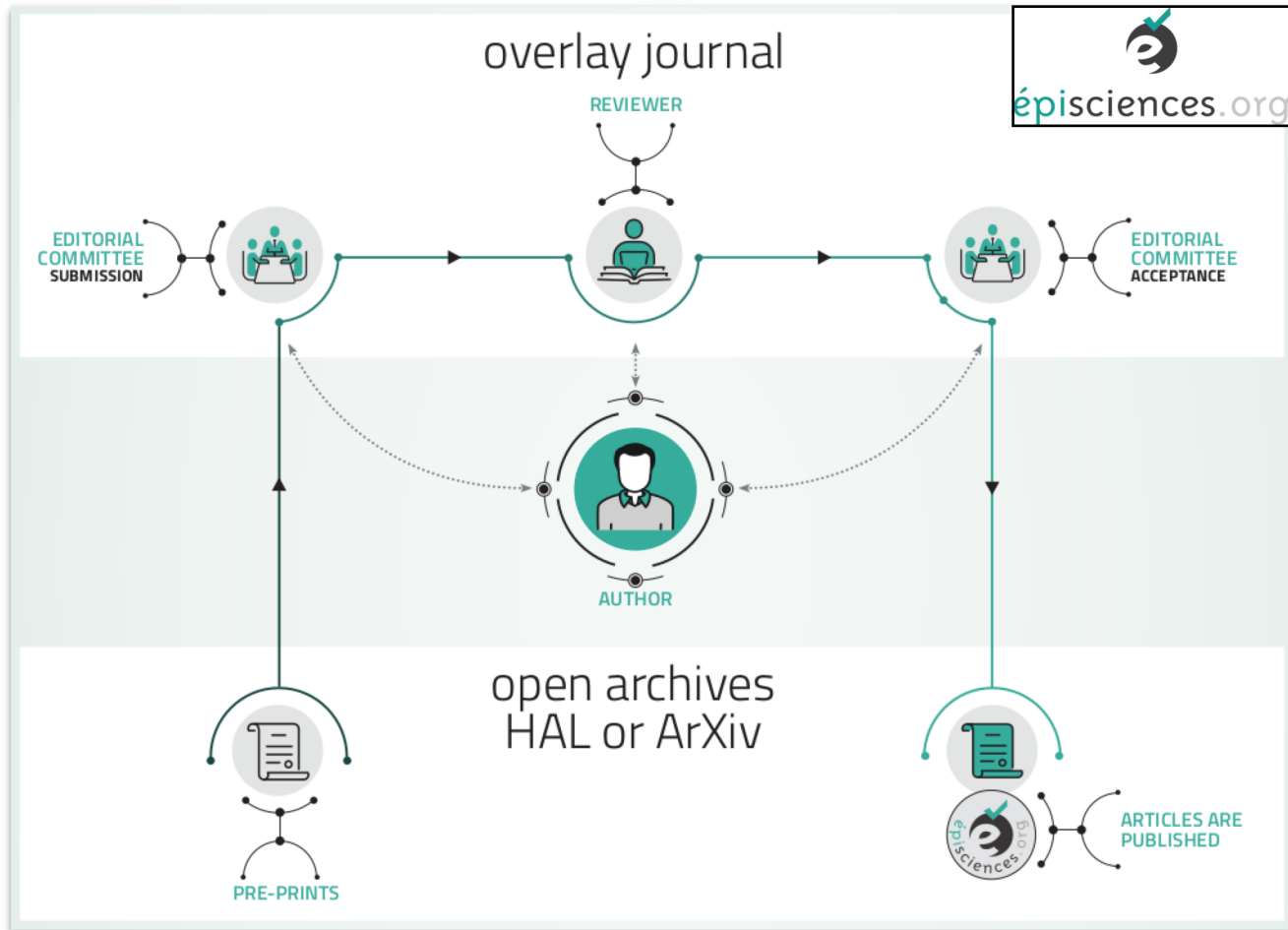
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