Atlanstic
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Recherche,
Formation
& Innovation
en PAYS de la LOIRE

IVADO Discovery Mission

from 7 to 10 October 2019

RECHERCHE
FORMATION) en Pays
INNOVATION / de la Loire

Atlanstic 2020 is a 5 millions euro program aims to strengthen research teams and develop their international visibility

It brings together 4 laboratories in 3 places:

- **Nantes LS2N**: Laboratory of Digital Science
- **Angers LARIS&LERIA**: Computer Engineering Laboratory & Computer Science Laboratory
- **Le Mans LIUM**: Computer Science Laboratory

The fields our expertise of our teams:

1. Complex Systems
2. Contents and Interactions
3. Data Science
4. Robotics
5. Software Science

As part of our partnership with IVADO (MoU signed in 2017), we wish to develop scientific collaborations with IVADO researchers. These collaborations may lead to post-doc funding in January 2020.

We also wish to initiate exchanges and partnerships on training and in particular the reception/exchange of students for our training courses.

Our delegation

Sébastien Bourguignon, LS2N, Nantes

Assistant Professor, Ecole Centrale de Nantes

My research activity focuses on the development of signal and image processing methods, especially in the field of inverse problems, sparse approximation, optimization and MCMC algorithms in various application fields. I am mainly teaching signal and image processing in the engineering program of École Centrale de Nantes and in Master Control and Robotics).

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Pierre Cointe, LS2N Nantes

Full Professor, Institut Mines Télécom Atlantique
Scientific director of Atlanstic 2020 Program

His main scientific contributions are in the field of programming languages and software engineering. He contributed to the implementations of functional and object-oriented programming languages. Then he moved to computer music to design the FORMES language, one of the first concurrent object-oriented language applied to music composition, sound synthesis and analysis. In the same time, he applied the object-oriented techniques to the field of reflective languages and metalevel architectures. More recently he contributed to Aspect Oriented Programming and Domain Specific Languages.

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Jean Baptiste Fasquel, LARIS, Angers

Professor, Université d'Angers

I am interested in image understanding using a priori structural and qualitative knowledge and implementation of image processing algorithms for medical image analysis, OIT for health care and document analysis applications. I am pedagogical coordinator of the last year of Polytech Angers (Industrial Systems Engineering School), automation and computer engineering option. I am mainly teaching software engineering and programming.

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Guillaume Fertin, LS2N Nantes

Professor, Université de Nantes

My topic of research is the algorithmic study of biologically motivated problems. The problems I have been interested in lately concern mass spectrometry, biological networks modeling and analysis, and comparative genomics. I am teaching bio informatics and algorithmic at Université de Nantes (Associate's Degree from Master's Degree).

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Claude Jard, LS2N, Nantes

Professor, Université de Nantes
Director/Head of the LS2N
Deputy director of labex CominLab

My research focuses on the analysis of asynchronous parallel systems. The central theme of my work is the study of dynamic methods of analysis, in which the calculation is carried out during the execution – abstract, simulated or real – of the program to be analysed.

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Anthony Larcher, LIUM Le Mans

Assistant Professor, Le Mans Université
Director of l'Institut Claude Chappe - http://ic2.univ-lemans.fr

My research interests include text-dependent and –independent speaker verification as well as language recognition.

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Olivier Péton, LS2N Nantes

Professor, Institut Mines Télécom Atlantique

My research activity focuses on planning and location issues in supply chains and - optimisation problems in transport. I am teaching operational research, production management and logistics in IMT- Atlantic

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Murielle Manin, Université de Nantes

Executive director of ATLANSTIC 2020 program

I manage the administrative and financial aspects of the Atlanstic 2020 program. I ensure the link with our digital ecosystem and in particular the actors of innovation. Finally, I am also in charge of communication and promotion of the program and projects we support.

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Dalila Tamzalit, LS2N Nantes

Assistant Professor, Université de Nantes

My research promotes Software Evolution Engineering rather than addressing software evolution on an ad hoc and case-by-case basis. Software Evolution Engineering requires concepts, (meta)models, processes and tools. The cornerstone of my research is to specify and abstract the evolution of the software in a reusable way to cope with changes. My teaching focuses on software design, reuse and implementation.

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