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## Introduction

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There are 47 faculty members (Professors PhD, Assistant professors PhD), 25 PhD candidate, 7 PhD post-doc in the Laboratory of Computer Science of the University of Tours (EA 6300). Since the 1st January 2012, the research team "Scheduling and Control" is associated to the CNRS, as an "Equipe Recherche Labellisée du CNRS" (ERL-CNRS 6305).

The scientific concerns of the Laboratory of Computer Science of the University of Tours are to design and to develop models, methods and algorithms and to provide resources and software to extract information, draw knowledge from data, by mainstreaming of human-computer interaction, and to solve combinatorial optimization problems with the desire to achieve good results in good computation time.

The labo is organized in three research teams: **DataBases and Natural Language Processing**, **Scheduling and Control**, **Pattern recognition and Image analysis**.

Three main application fields unite the activities in the lab:

- **Health and Disability**, on the one hand, with many partnerships with the University Hospital of Tours and INSERM teams on technical aids for the physically disabled, autism, flow optimization, image analysis for diagnosis assistance, visual data mining of medical data, etc.
- **Big Data and High Performance Computing**, on the other hand, with issues around infrastructure for storing and accessing data, GRID / CLOUD computing, extraction, analysis and structuring of data, operation, visualization and HMLs.
- **Digital Humanities**, with issues related to database structures, 3D scanning, recognition of patterns. Many partnerships are underway with CESR and CITERES laboratory.

The Laboratory of Computer Science of the University of Tours has experience in academic collaborations (national and international level) and industrial partnerships.

The project to build a Federation with the Laboratory of Fundamental Computer Science of Orléans ([LIFO](#)) is still in progress.

More than ever, the focus is on the quality of the scientific production in international journals, on monitoring our doctoral students for a maximum quality of work, and on the maintenance and enhancement of our international relations.

Jean-Charles BILLAUT, Director

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