

# Ecole de Printemps d'Informatique Théorique

Spring school on theoretical computer science

EPIT 2019

## Databases, logic and automata

### Preliminary program

Five long lectures will introduce fundamental concepts in databases, logic, automata, and their relationships. These will be interleaved with five shorter talks presenting more advanced and specific topics. Courses will be intended for an heterogeneous audience, having a solid computer science background, but will not require prior knowledge of the database theory field.

In addition, poster sessions will be organised, so that participants who are willing to, will be able to present their work. All courses will be given in English.

The school starts on Monday and ends on Friday after lunch. Wednesday afternoon is dedicated to social activities.

### Sunday, April 7th

19:30 Dinner

### Monday, April 8th

09:15 – 10:40 Introduction to database theory – part 1, *Pierre Senellart*

10:40 – 11:00 Coffee break

11:00 – 12:20 Introduction to database theory – part 2, *Pierre Senellart*

12:20 – 14:00 Lunch

14:00 - 15:20 Optimal joins – *Szymon Toruńczyk*

15:20 – 15:40 Coffee break

15:40 – 17:00 Poster session

19:30 Dinner

### Tuesday, April 9th

09:15 – 10:40 Logic and automata for semi-structured data – part 1, *Diego Figueira*

10:40 – 11:00 Coffee break

11:00 – 12:20 Logic and automata for semi-structured data – part 2, *Diego Figueira*

12:20 – 14:00 Lunch

14:00 - 15:20 Logic-based distributed query processing – *Frank Neven*

15:20 - 15:40 Coffee break

15:40 – 17:00 Incremental query evaluation – *Thomas Schwentick*

19:30 Dinner

## Wednesday, April 10th

09:15 – 10:40 Graph data management – part 1, *Wim Martens*

10:40 – 11:00 Coffee break

11:00 – 12:20 Graph data management – part 2, *Wim Martens*

12:20 – 14:00 Lunch

Free afternoon

19:30 Dinner

## Thursday, April 11th

09:15 – 10:40 Databases and descriptive complexity – part 1, *Nicole Schweikardt*

10:40 – 11:00 Coffee break

11:00 – 12:20 Databases and descriptive complexity – part 2, *Nicole Schweikardt*

12:20 – 14:00 Lunch

14:00 - 15:20 View-based query processing – *Nadime Francis*

15:20 - 15:40 Coffee break

15:40 – 17:00 Incomplete data management – *Leonid Libkin*

19:30 Dinner

## Friday, April 12th

09:15 – 10:40 Ontologies and rules – part 1, *Meghyn Bienvenu*

10:40 – 11:00 Coffee break

11:00 – 12:20 Ontologies and rules – part 2, *Meghyn Bienvenu*

12:20 – 14:00 Lunch

End of the school