Nice, 2-4 October 2024

CCC 2024

PROGRAM

(joint with *Journées Calculabilités*)

General information

About talks length
Invited: 50 minutes plus 10 minutes for questions
Regular: 35 minutes plus 10 minutes for questions

About lunch
If weather is good, lunch is a buffet served right outside the conference building. In case of rainy weather, the lunch will be served right outside the conference hall. If you have any dietary restriction, please ask the waiter or the organizers for informations.

About conference dinner
The conference dinner will be on Thursday 3 October at 20 o'clock. Bring your conference badge with you. The gathering point at the tramway stop 'Valrose Université' at 19:40.

Talks schedule

	Wednesday, 2 October 2024
09:30 10:00	**Registration to CCC 2024**
10:00 10:15	**CCC 2024 opening**
10:15 11:00	Kenza Benjelloun (*Journées Calculabités*) **Infinite time Turing machines for elementary proofs on recursive reals**
11:00 11:30	**Coffee break**
11:30 12:30	Micaela Mayero (Invited speaker) **An overview of the real numbers in theorem provers: an application with real analysis in Coq**
12:30 14:00	**Lunch**
14:00 14:45	Martin Baillon, Yannick Forster, Assia Mahboubi, Pierre-Marie Pédrot and Matthieu Piquerez **A zoo of continuity properties in constructive type theory**
14:45 15:30	Haoyi Zeng, Yannick Forster, Dominik Kirst and Takako Nemoto **Post's Problem in Constructive Mathematics**
15:30 16:15	Riccardo Gozzi and Olivier Bournez **Set Descriptive Complexity of Solvable Functions**
16:15 17:00	**Guided tour of Valrose Park**

	Thursday, 3 October 2024
09:00 09:30	**Registration to CCC 2024**
09:30 10:30	Svetlana Selivanova (Invited speaker) **Theory and practice of solving differential equations in exact real computation**
10:30 11:00	**Coffee break**
11:00 11:45	Jaden Jorradol, Alexander Stoimenov and Martin Ziegler **iRRAM for 6191 Knots: Implementing the Burau Spectral Test in Exact Real Computation**
11:45 12:30	Manon Blanc and Olivier Bournez **Characterisations of polynomial-time and -space complexity classes over the reals**
12:30 14:00	**Lunch**
14:00 14:45	Ulrich Berge **Program extraction in Church's Simple Theory of Types**
14:45 15:30	Hiromi Hasegawa, Katsunobu Imai and Hideki Tsuiki **A Hexagonal Cellular Automaton with Alternating Update**
15:30 16:00	**Coffee break**
16:00 16:45	Henri Lombardi and Assia Mahboubi **Geometric theories for real number algebra without sign test or dependent choice axiom**
16:45 17:30	Olivier Bournez, Johanne Cohen and Valentin Dardilhac **Complexity of solving inequation systems with piecewise affine approximable functions - to be confirmed**

	Friday, 4 October 2024
09:30 10:15	Mathieu Sablik (*Journées Calculabilités*) **Computability of the asymptotic behaviour of topological dynamical systems**
10:15 11:00	Gabriel Istrate **On the Inference of (Mostly Unimodal) Dynamical Systems from Queries**
11:00 11:30	**Coffee break**
11:30 12:30	Joris Tillet, Julien Alexandre Dit Sandretto and Elena Vanneaux **Guaranteed Satisfaction of a Temporal Logic Formula with a Confidence Parameter**
12:30 14:00	**Lunch & Closing**