

# CCC 2020 Programme

*Important notice: All times are given in Western European Summer Time  
(UTC +1)*

## Monday, August 31

9:00 – 10:00	Elvira Mayordomo (invited speaker) <b><i>Effective dimension: from computation to fractal geometry and number theory</i></b>
10:00 – 10:30	<i>Coffee break</i>
10:30 – 11:00	Samuele Maschio <b><i>Extending the extensional level of the Minimalist Foundation to axiomatic set theories</i></b>
11:00 – 11:30	Maria Emilia Maietti, Davide Trotta and Margherita Zorzi <b><i>Choice principles via the existential completion</i></b>
11:30 – 12:00	Ming Ng <b><i>Pointfree Construction of Positive Real Exponentiation</i></b>
12:00 – 14:00	<i>Lunch</i>
14:00 – 14:30	Bruno Dinis and Pedro Pinto <b><i>Quantitative information on the strong convergence of algorithms via proof mining</i></b>
14:30 – 15:00	Ulrich Berger, Andrew Lawrence and Monika Seisenberger <b><i>Towards the extraction of clause learning</i></b>
15:00 – 15:30	<i>Coffee break</i>
15:30 – 16:00	Pieter Collins <b><i>Rigorous Function Calculi-III</i></b>
16:00 – 16:30	Serdar Erbatur, Ulrich Schöpp and Chuangjie Xu <b><i>Type-based Enforcement of Infinitary Trace Properties for Java</i></b>

## Tuesday, September 1

- 9:00 – 10:00 Hideki Tsuiki (invited speaker)  
***Combining partial maps into a correct total map through program extraction***
- 10:00 – 10:30 *Coffee break*
- 10:30 – 11:00 Gabriele Buriola, Domenico Cantone, Gianluca Cincotti, Eugenio Omodeo and Gaetano Spartà  
***Decision algorithm for a fragments of real analysis involving differentiable functions with convexity and concavity predicates on (semi-) open intervals***
- 11:00 – 11:30 Francesco Ciraulo  
***On the order-enriched category of overlap-algebras***
- 11:30 – 12:00 Partha Pratim Ghosh  
***Internal Neighbourhood Structures***
- 12:00 – 14:00 *Lunch*
- 14:00 – 15:00 Holger Boche (invited speaker)  
***Computability in Information Sciences and Technology***
- 15:00 – 15:30 *Coffee break*
- 15:30 – 17:00 CID Management meeting; CID Training Board meeting

## Wednesday, September 2

- 9:00 – 10:00 Hongseok Yang (tutorial speaker)  
***Probabilistic Programming: Introduction and Semantic Foundation (part 1)***
- 10:00 – 10:30 *Coffee break*
- 10:30 – 11:00 Tonicha Crook and Arno Pauly  
***Finding Roots of Polynomials***
- 11:00 – 11:30 Vittorio Cipriani  
***A Weihrauch analysis on principles equivalent to  $\Pi 11$  -CA 0***
- 11:30 – 12:00 Sam Sanders  
***On the logical and computational properties of the uncountable***

## Thursday, September 3

- 9:00 – 10:00 Hongseok Yang (tutorial speaker)  
***Probabilistic Programming: Introduction and Semantic Foundation (part 2)***
- 10:00 – 10:30 *Coffee break*
- 10:30 – 11:00 Antonin Callard and Mathieu Hoyrup  
***Descriptive complexity on non-Polish spaces***
- 11:00 – 11:30 Manlio Valenti  
***Computing the Fourier dimension***
- 11:30 – 12:00 Willem Fouché  
***Computable profinite groups and randomness***
- 12:00 – 14:00 *Lunch*
- 14:00 – 14:30 Zoltán Ernő Csajbók  
***Rough Continuity of Rough Real Functions***
- 14:30 – 15:00 Riccardo Gozzi and Daniel Graça  
***Using differential equations to characterize complexity classes***
- 15:00 – 15:30 Michael Bukatin  
***Higher-order neuromorphic computations with linear streams***

## Friday, September 4

- 9:00 – 10:00 Eike Neumann (invited speaker)  
***Title to be announced***
- 10:00 – 10:30 *Coffee break*
- 10:30 – 11:00 Arno Pauly  
***On the non-existence of some universal spaces***
- 11:00 – 11:30 Danut Rusu and Gabriel Ciobanu  
***Interior operators generated by ideals in complete domains***
- 11:30 – 12:00 Anton Freund, Michael Rathjen and Andreas Weiermann  
***Kruskal's tree theorem and continuous transformations of partial orders***



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