

Functional Nominal C-Unification

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Sala: MAT B - térreo do MAT

Abstract. Nominal syntax extends first-order syntax bringing mechanisms to deal with bound and free variables, that is with α -conversion, in a natural manner. Profiting from the nominal paradigm implies adapting basic notions such as substitution, rewriting, equality to it. Recent work presents advances in nominal unification modulo equational theories. In this talk the problem of nominal unification with commutative operators is revisited, and a functional algorithm for nominal C-unification is presented. This is a joint work with Mauricio Ayala-Rincón.

References

- [1] Fernández, Maribel, and Murdoch J. Gabbay. "Nominal rewriting." *Information and Computation* 205.6 (2007): 917-965.
- [2] Ayala-Rincón, Mauricio, et al. "Nominal C-Unification." *arXiv preprint arXiv:1709.05384* (2017).