

Problem #75

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Summary: What sufficient conditions make confluence of general (hyper-)graph rewriting decidable?

In contrast to term rewriting, confluence of general (hyper-)graph rewriting—in the “Berlin approach”—is undecidable, even for terminating systems [Plu93]. What sufficient conditions make confluence decidable?

Bibliography

- [Plu93] D. Plump. Hypergraph rewriting: Critical pairs and undecidability of confluence. In M. R. Sleep, M. J. Plasmeijer, and M. C. van Eekelen, editors, *Term Graph Rewriting: Theory and Practice*, chapter 15. Wiley, 1993. To appear.