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*The  $C_k$ -extended Graft Construction*

Gutjahr, Welzl and Woeginger found polynomial-time algorithms for a number of digraph homomorphism problems. These algorithms are based on the  $\underline{X}$ -enumeration, the  $C_k$ -extended  $\underline{X}$ -enumeration and the  $\underline{X}$ -graft construction. In this talk, we show how the last two methods can be combined to obtain new polynomial-time algorithms, which also work for list homomorphisms. In the process, we are able to extend results of Bang-Jensen and Hell, dealing with homomorphisms to bipartite tournaments, to list homomorphisms.