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Abstracts of Short Communications and Posters

Section:

1. Logic

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Schwichtenberg, Helmut, Niggl, Karl-Heinz (Universität München), Bellantoni, Stephen J. (University of Toronto)
Ramification, Modality and Linearity in Higher Type Recursion
It is shown how to restrict Gödel's system T of recursion in all higher types, so that the type level 1 section consists of exactly the polynomial-time computable functions. The characterization is obtained by a novel combination of ramified recursion and linearity of usage, which are made to coincide through modal operations.