Minisymposium 10 - The use of proof theory in mathematics

Logic for Computable Functionals and their Approximations

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An attempt is made to develop a constructive theory of formal neighborhoods for continuous functionals, in a direct and intuitive style. Guided by abstract domain theory, we consider a more concrete and (in the case of finitary free algebras) finitary theory of representations. As a framework for this we use Scott's information systems.