

- VASCO BRATTKA, *Computable Analysis in the Weihrauch Lattice*.
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We present recent results on the classification of the computational content of theorems in the Weihrauch lattice. This lattice is a refinement of the Borel hierarchy and allows to classify the computational content of theorems easily. The essential idea is to view theorems as (possibly multi-valued) functions that transform certain input data into certain output data. The question is then which theorems can be computably and continuously transformed into each other. So far, theorems such as the Baire Category Theorem, the Banach Inverse Mapping Theorem, the Intermediate Value Theorem, the Hahn-Banach Theorem, the Bolzano-Weierstrass Theorem and several other theorems from analysis have been classified from this perspective. The results are not only natural refinements of what is known from reverse mathematics, but a classification of the Weihrauch degree of a theorem leads to a relatively complete understanding of the respective theorem regarding its uniform and non-uniform computability properties.