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ΣΕΜΙΝΑΡΙΟ ΛΟΓΙΚΗΣ ΚΑΙ ΑΛΓΟΡΙΘΜΩΝ

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Θέμα: Kleene's amazing Second Recursion Theorem

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Περίληψη

The Second Recursion Theorem was stated unproved and proved in two lines of a short 6-page note that Stephen Cole Kleene published in 1938, and was then immediately applied to solve an outstanding problem of the time in recursion theory. Since then, it has been used to establish difficult and deep results in practically every area of logic as well as some parts of theoretical computer science. As Robert Solovay has said, it is (or should be) in the tool kit of every logician.

My aim in this lecture is to state some of these applications---and give a few outlines of proofs in some cases.