Fuzzy logics with truth hedges revisited

In this paper we build upon previous works of Hájek and Vychodil on the axiomatization of truth-stressing and depressing hedges as expansions of BL by new unary connectives. They show that their logics are chain-complete, but standard completeness is only proved for the expansions over Gödel logic. We propose weaker axiomatizations that have as main advantages to preserve the standard completeness properties of the original logic and that any subdiagonal (resp. superdiagonal) non-decreasing function on [0, 1] preserving 0 and 1 is a sound interpretation of the truth stresser (resp. depresser) connectives.
[2] https://www.iii.csic.es/en/staff/lu%C3%ADs-godo