

An optimization method of the weighting to hypocenter pair for stable solution in Double Difference method

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In recent few years, Double-Difference method is applied for many case of hypocenters relocation. The total weight balancing in all of each pair of hypocenters is needed to reduce the false caused by relative travel time. As one of the scheme of the weight balancing, 'Distance weighting and reweighting' is recommended by Waldhauser and Ellsworth(2000). We propose a another scheme of reweighting to the pairs of hypocenter based on the condition of inverse problem of hypocenters relocation with DD.