

ENSEMBLES IN FETAL WEIGHT PREDICTION MODELING

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Abstract

Model Ensemble has been shown to provide a high level of performance for regression problems. Overall error can be smaller since ensembling method can also reduce both bias and variance of the model. We present several ensembling algorithm tested on fetal weight prediction on sonography data. All ensemble method has shown better result compared to other best single estimation model usually founded by linear and non linear regression.

Keywords: Ensemble, fetal, weight, prediction

Presenting Author's Biography

Tomáš Siegl graduated in Computer Science from Czech Technical University in Prague and in Management and Economy from Colleague of Banking in Prague. He is currently a PhD student in Computational Intelligence Group at Faculty of Electrical Engineering in Czech Technical University in Prague supervised by Miroslav Šnorek. He is interested in developing a new ensembling algorithms based on negative correlation technique.

