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| **Method** | **Estimation** | **Data types** | **ML method** |
| MERT,  Hajjem  2011 | ML-based EM-algorithm in which we replace the linear structure used to estimate the fixed  part of the model by a standard tree structure | Gaussian | Regression tree |
| MERF, Hajjem  2014 | Same as MERT, replacing the standard tree structure within each iteration of the MERT algorithm with a forest of RTs | Gaussian | Regression forest (can be extended) |
| GMERT, Hajjem  2017 | Penalized quasi-likelihood (PQL) method and EM-algorithm | Gaussian, non-gaussian | Regression tree (CART) |
| MEml,  Ngufor  2019 | Penalized quasi-likelihood (PQL) method and EM-algorithm | Gaussian, non-gaussian | Random forest, gradient  boosted machine, model-based recursive partitioning,  and conditional inference trees (can be extended) |