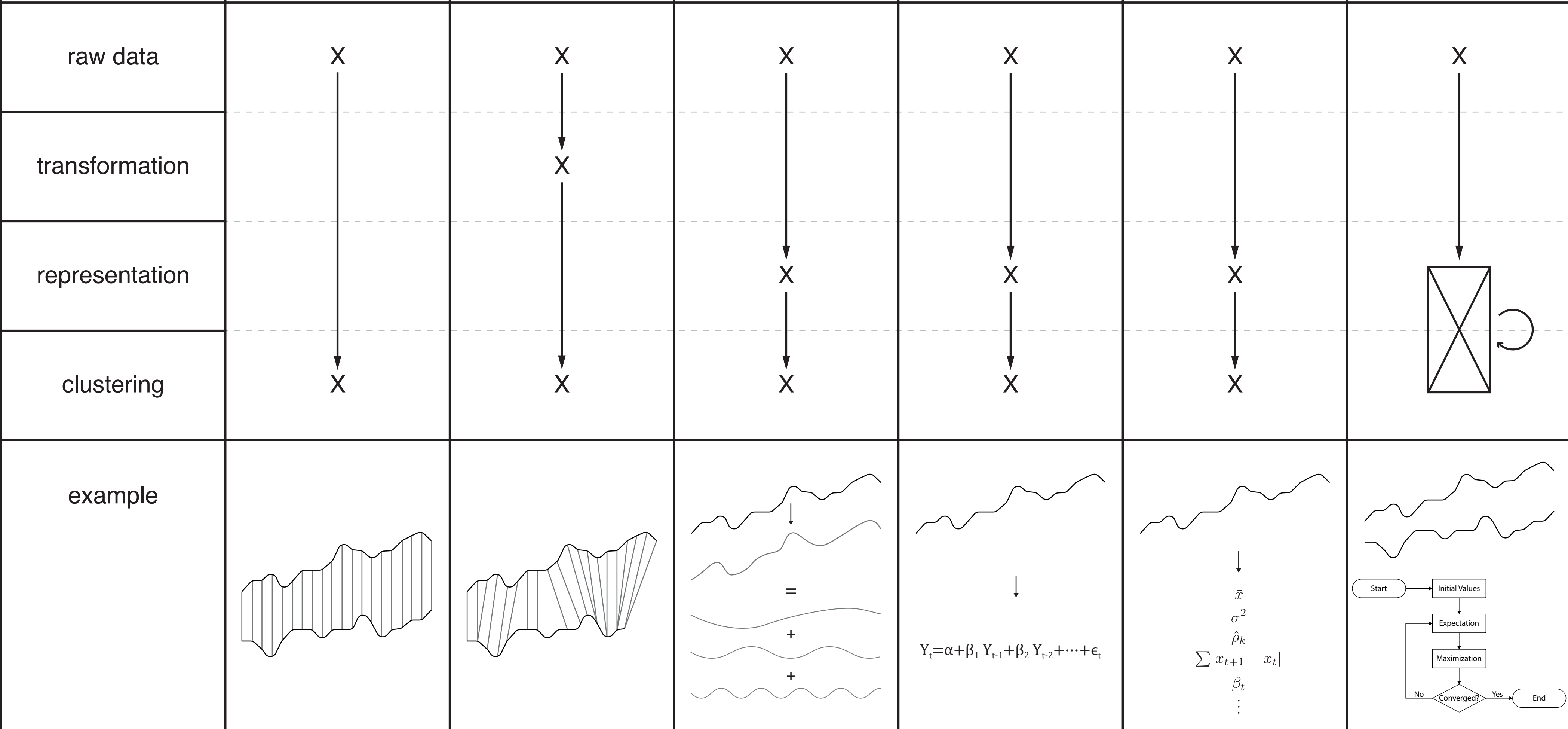
	raw data		representation			embedded
	in-time-based	transform-based	shape-based	model-based	feature-based	iterative-based



algorithm	*LKMA*	*DTW*	*DFT*	*VAR*	*tsfresh*	*GBTM*

notes	raw data	representation	embedded
notes	− low interpretability − same interval (if not transformed) − same length (no missing) − no parameter dependence (ignore temporal order) − sensitive to offset (if not transformed) − sensitive to noise + no shape assumed (incl. sudden changes) + fast modeling + readily available software + cluster interpretation established in the field	− dangerous if model fit is poor − assumptions violated (poor fit) − too few observations (poor fit) + high interpretability + reduced dimensional space + use domain knowledge to choose summarize features) + more acurate then raw + fast modeling + readily available software + robust to missing data (b/c calculated on multiple observations) + varying intervals + varying lengths + often scaleable performance (e.g., model only needs to be fitted once) + relatively few observations per trajectory	− often assume the same parametric distribution − dangerous if model fit is poor (e.g., over- or under fitting) − assumptions violated (fit) − too few observations (fit) − slower with mode complex models + robust to missing data (b/c calculated on multiple observations) + varying intervals + varying lengths + interpretatble (e.g., distinct cluster trajectories) + good for prediction

based on: Aghabozorgi et al., 2015; den Teuling et al., 2021; and Liao, 2005