Model size

Mumber of FLOPs

Maintain acceracy Compact Model: Modify the standard speretring ompact Model: Muss.

Used in DNNs.

E.J. Standard CNN Wilated conv

| gaparable depthise Conv Standard LSTM S-LSTM

JANET Tensor Decomposition: M = AB(Mxx) + (Vxn) < Mxn

hierarchical tensor representation (HT) leaser train decomposition (TT)convert data object from 32-flooring point to lower precision or a fixed point Integer or even binary n weights / biases cefivetions (input details 2 Pror value internal representations weight update Network Sparsification / Pruning:

compress the model by pruning some
weights (edges) or operations (nodes)

"importance" weight volves

learned via an
Attention Layer

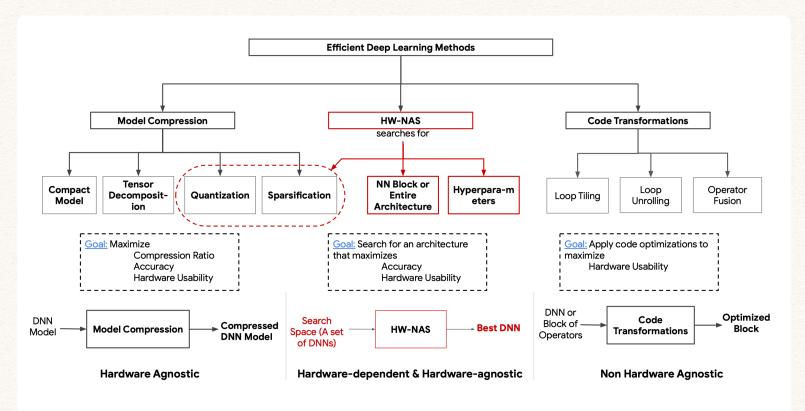


Fig. 6. Overview of efficient deep learning techniques