

A summary of FMM variants without the contraction procedure overcome

Model	Limitations			
	Expansion	Missing overlap rule	Affected by Nosie	Complexity
Inclusion /Exclusion	Y	Y	Y	Y
Adaptive Inclusion /Exclusion	Y	Y	Y	Y
GRFMM	Y	Y	Y	Y
FMCN	Y	Y	Y	Y
DCFMN	Y	Y	N	Y
MLF	Y	Y	N	Y

Y= Yes indicates the limitation still exists.

N= No indicates the limitations has been overcome.