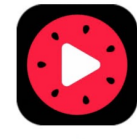


JVET-AD0231

# Non-EE2: Non-adjacent spatial candidates for IBC

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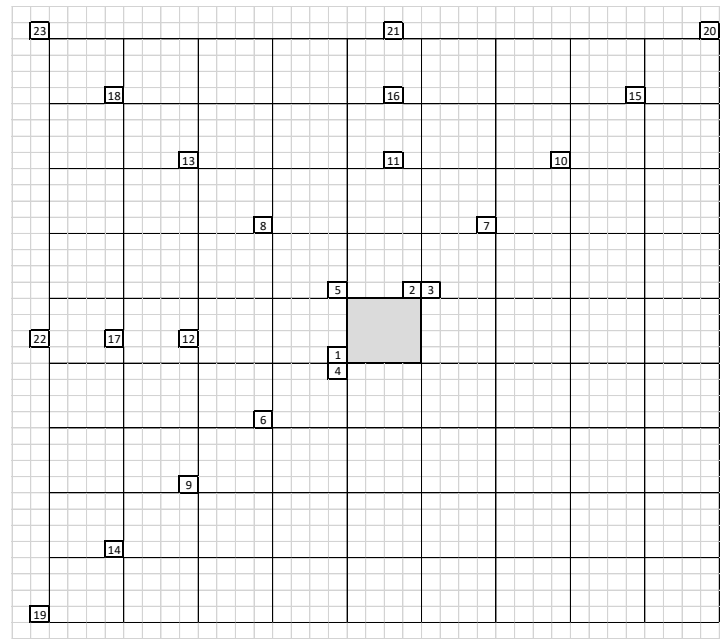
# Introduction

- Non-adjacent spatial candidates in ECM
  - *In inter prediction, non-adjacent spatial merge candidates are used to construct AMVP/merge list.*
- Extend non-adjacent spatial candidates to IBC

# Proposed method

## ■ Non-adjacent spatial candidates for IBC

- *Non-adjacent spatial candidates for IBC are inserted before IBC HMVP candidates*
- *The same pattern as regular merge mode is used*
- *The restriction that spatial candidates are not used to construct IBC merge candidate list for a  $4 \times 4$  CU is removed*



# Simulation results

- On top of ECM-8.0

	All Intra Main 10					Random Access Main 10				
	Y	U	V	EncT	DecT	Y	U	V	EncT	DecT
Class F	-0.27%	-0.27%	-0.31%	100%	101%	-0.24%	-0.68%	-0.32%	100%	100%
Class TGM	-0.41%	-0.36%	-0.34%	100%	103%	-0.26%	-0.29%	-0.26%	100%	99%

# Conclusions

## ■ Proposed:

- *Extend the concept of non-adjacent spatial candidates to IBC*
- *-0.27% and -0.41% BD-rate reduction for Class F and Class TGM under AI*
- *-0.24% and -0.26% BD-rate reduction for Class F and Class TGM under RA*

## ■ It is recommended to adopt the proposed method in EE2

## ■ Thanks to Kwai for crosschecking!