

# Triangulation

## Orthogonal Polygons

- Sufficiency by Convex Quadrilateralization

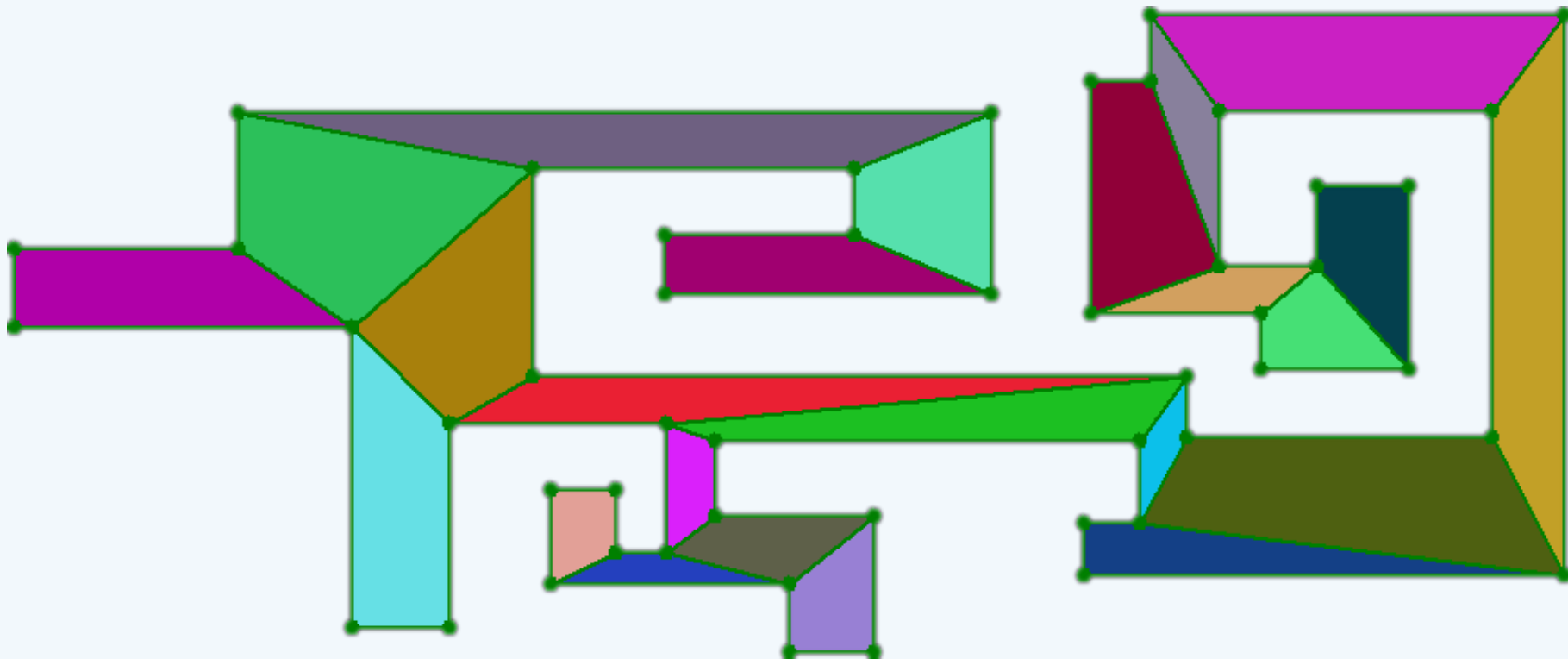
Junhui DENG

deng@tsinghua.edu.cn

# Convex Quadrilateralization

❖ Every orthogonal polygon can be

partitioned into  $\frac{n}{2} - 1$  convex quadrilaterals



## 4-Coloring

❖ After introducing the two (internal) **diagonals** for each quadrilateral, we can always **4-color** the enhanced convex quadrilateralization

