

CFD Embedded Methods for Computational Wind Engineering

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The simulation of problems in Computational Wind Engineering represents an open challenge for modern numerical techniques.

Current work introduces the advances in the solution of city-scale flow problems, combining Embedded CFD solution techniques and adaptive meshing approaches [1].

All of the proposed techniques are designed and tested to work in parallel and to handle large meshes, exceeding 50M elements.

Implementation is available in open source as a part of the Project “Kratos” [2][3].

REFERENCES

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