

Subodh Joshi

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Summary

I am a PhD research scholar at the Department of Aerospace Engineering, IIT Bombay. I'm advised by Prof. Avijit Chatterjee. My PhD research is on Higher-order Multi-level methods in Computational Aero-acoustics.

Research Interests

Computational Fluid Dynamics (CFD),
Higher-order schemes for hyperbolic conservation laws,
Algorithm development for computational physics

Education

2011-: Integrated M.Tech + PhD (*CPI: 9.65*)

Department of Aerospace Engineering, IIT Bombay

2007-2011: Bachelors in Engineering, Mechanical Engineering department, Pimpri Chinchwad College of Engineering, Pune University
(*First class with Distinction*)

Publications

Journal: Higher-order multilevel framework for ADER scheme in computational aeroacoustics

S. M. Joshi, A. Chatterjee,
Journal of Computational Physics, 338(2017), 388-404

Conference: Multilevel Higher Order Method for Simulation of Linear Wave Propagation

A. Chatterjee, S. M. Joshi,
The Eighth International Conference on Computational Fluid Dynamics (ICCFD8), Chengdu, China, 2014

Conference: Multilevel Spectral Finite Volume Method for Linear Systems

S. M. Joshi, A. Chatterjee,
17th AeSI CFD Symposium, NAL, Bangalore, 2015

Conference: Multilevel ADER Scheme For Computational Aeroacoustics

S. M. Joshi, A. Chatterjee,
The Ninth International Conference on Computational Fluid Dynamics (ICCFD9), Istanbul, Turkey, 2016

Conference: Spectral Analysis of Higher-Order Multilevel Method
S. M. Joshi, A. Chatterjee,

Skills

Languages: C, C++, Python, L^AT_EX

Tools and Libraries: Linux, Vim, OpenFOAM, DEAL II

Achievements

2013: Department Rank 1 in M.Tech program, Aerospace Department, IIT Bombay

2011: Received MHRD fellowship for post-graduate studies

2011: Qualified Graduate Aptitude Test in Engineering (GATE), with all-India rank 139

2004,2006: Distinction in secondary and higher secondary school exam

References

Prof. Avijit Chatterjee, IIT Bombay

<https://www.aero.iitb.ac.in/home/people/faculty/avijit>

Prof. Prabhu Ramachandran, IIT Bombay

<https://www.aero.iitb.ac.in/~prabhu/index.html>

Prof. G. R. Shevare, IIT Bombay

Prof. Shivasubramanian Gopalakrishnan, IIT Bombay