



Algorithmic Trends in Computational Fluid Dynamics (ICASE NASA LaRC Series)

M.Y. Hussaini, A. Kumar, M.D. Salas

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This volume contains the proceedings of the ICASE/LaRC Workshop on the "Algorithmic Trends for Computational Fluid Dynamics (CFD) in the 90's" conducted by the Institute for Computer Applications in Science and Engineering (ICASE) and the Fluid Mechanics Division of NASA Langley Research Center during September 15-17, 1991. The purpose of the workshop was to bring together numerical analysts and computational fluid dynamicists i) to assess the state of the art in the areas of numerical analysis particularly relevant to CFD, ii) to identify promising new developments in various areas of numerical analysis that will have impact on CFD, and iii) to establish a long-term perspective focusing on opportunities and needs. This volume consists of five chapters - i) Overviews, ii) Acceleration Techniques, iii) Spectral and Higher-Order Methods, iv) Multi Resolution/ Subcell Resolution Schemes (including adaptive methods), and v) Inherently Multidimensional Schemes. Each chapter covers a session of the Workshop. The chapter on overviews contains the articles by J. L. Steger, H.-O. Kreiss, R. W. MacCormack, O.

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