

# Perumal Nithiarasu

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## ***Current position***

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Senior Lecturer

## ***Education***

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BE(1989), MTech(1992), PhD(1997)

## ***Research interests***

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Computational fluid dynamics (CFD), porous medium flows, finite element method

## ***Career***

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Oct 2004 - Senior Lecturer, University of Wales Swansea; Sept 2000 - Sept 2004 - Lecturer, University of Wales Swansea; Sept 1996 - August 2000 - Research Officer, University of Wales Swansea

## ***Honors and awards***

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Young Scientist in Computational Engineering Sciences, ECCOMAS, 2004; Zienkiewicz Silver Medal and Prize, ICE, London, 2002.

## ***Professional activities***

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Member of Editorial Advisory Board, Int. J. Num. Meth. Fluids; Member of Editorial Board, Int. J. Num. Meth. Heat Fluid Flow; Member of IMA, UK; Senior Member of AIAA, USA;

## ***Refereed papers and chapters in books***

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Chapter in book: 1; Conference presentations: 40

## ***Summary of journal publications***

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Journal	Impact factor	Number of papers
International Journal for Numerical Methods in Engineering	1.691	8
Computer Methods in Applied Mechanics and Engineering	1.252	3
International Journal of Num. Meth. in Heat and Fluid Flow	0.584	7
Other indexed journals		21
Other papers in refereed journals		1

## ***Selected publications (max. 5)***

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Nithiarasu P, An efficient Artificial Compressibility (AC) scheme based on the Characteristic Based Split (CBS) method for incompressible flows, International for Numerical Methods in Engineering, 56, 1815 – 1845, 2003.

Nithiarasu P, A simple locally conservative Galerkin (LCG) finite element method for transient conservation equations, Numerical Heat Transfer – Part B Fundamentals, 46, 357 - 370, 2004.

Nithiarasu P, Mathur JS, Weatherill NP and Morgan K, Three dimensional incompressible flow calculations using the Characteristic Based Split (CBS) scheme, International Journal for Numerical Methods in Fluids, 44, 1207-1229, 2004.

Nithiarasu P, Massarotti N and Mathur JS, Forced convection heat transfer from solder balls on a printed circuit board using the Characteristic Based Split (CBS) scheme, International Journal of Numerical Methods in Heat and Fluid Flow, 15, 73-95, 2005.

Nithiarasu P, An Arbitrary Eulerian Lagrangian (ALE) method for free surface flow calculations using the Characteristic Based Split (CBS) scheme, International Journal for Numerical Methods in Fluids, (to appear, 2005).

***Other relevant information***

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