

International Congress on Industrial and Applied Mathematics

JULY15-19
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Mathematics and Computer Science II - Part 1 of 1

17/07/2019 | 14:30 - 16:30

Room: FT-1-8

(Note: Click title to show the abstract)

Chair Person: Mermri El Bekkaye

17/07/2019

14:30

Implemention of the finite element method with C program to solve partial differential equations

Authors:

Mermri El Bekkaye. Faculty Of Science, University Mohammed Premier

Mellah Zhor. Faculty Of Science, University Mohammed Premier

17/07/2019

14:50

A numerical investigation on the structure of the zeros of the qsigmoid polynomials

Authors:

Jung Yoog Kang. Silla University

17/07/2019

15:10 On performance portability and library reuse: A Navier-Stokes <u>miniapp</u>

Authors:

Valeria Barra. University Of Colorado Boulder Jed Brown. University Of Colorado Boulder Jeremy Thompson. University Of Colorado Boulder Yohann Dudouit. Lawrence Livermore National Laboratory

Abstract:

We demonstrate library reuse via a Navier-Stokes miniapp, where differential operators are expressed via a pointwise representation of the weak form, and composed using libCEED to act on subdomains with various execution strategies to exploit tensor product structure and symmetries of high order/spectral elements, and to enable vectorization on diverse architectures.

17/07/2019

15:30

Efficient Parallel Numerical Schemes for Reaction-Diffusion System by Domain Decomposition

Authors:

Aswin V S. National Institute Of Technology Calicut Raghu H V. Center For Development Of Advanced Computing Ashish Awasthi. National Institute Of Technology Calicut

17/07/2019

15:50

Digital topological rough set structures and their applications

Authors:

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