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أستان وساور

العلوم الرياضية والفيزيائية _ شعبة الرياضيات كلية العلوم والآداب جامعة نزوى، سلطنة عمان

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يعمل في الجامعة: منذ 2023

الحالة الاجتماعية: Single...

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المؤهلات الأكاديمية

Post-Doc. in COMPUTATIONAL MATHEMATICS, PHYSIC, Universidade de Aveiro, Portugal. , 2019, ``
"Bathymetric and Morphology Effects On Estuarine Plume Dynamics". (Coastal Hydrodynamic
``.(Modelling)

PhD. in MATHEMATICS, Universiti Teknologi Malaysia, Malaysia., 2015, MATHEMATICAL MODELING FOR TSUNAMI WAVES USING LATTICE BOLTZMANN METHOD

M.Sc. in ENGINEERING MATHEMATICS, Universiti Teknologi Malaysia, Malaysia., Universiti Teknologi Malaysia, Malaysia., 2012, ``Accurate solutions and Lattice Boltzmann modeling for ``shallow water equations

M.Sc. in Algebra MATHEMATICS, University of Shahid Chamran, Iran., 2009

B.Sc. in PURE MATHEMATICS, Iran., 2007

أنشطة التدريس

Mat105 course (Calculus), University of the Western Cape, South Africa

Linear Algebra (Math students - Second year). Engineering mathematics and physical math (Engineering students - First and Second year). Advanced Calculus (Second year). Universiti

.Teknologi Malaysia, Malaysia
.Mathematics and Statistics.Pre-university preparation course lecturer

(MATH365: (Linear Algebra II

(MATH211: (Calculus I

(MATH221: (Foundations of Mathematics

(MATH323: (Foundation of Analysis

(MATH312: (Differential Equation for Engineers

(MATH116: (Pre-Calculus II

الأنشطة البحثية

الاهتمامات البحثية ـ

To be a scholar and researcher in mathematical physics (engineering mathematics), fluid dynamics to apply mathematical modeling to complex systems for natural disasters and mathematical biology with new methods for 3D simulations real physical problems and expansion .of simulation code by using Delft3D and Matlab

مضور المؤتمرات ـ

The 6nd International Conferences OnCoastal Hydrodynamic,2019,Portugal., 09/06/2019

The 2nd International Conferences On Geological, Geographical, Aerospace & Earthscience
(Aeroearth 2014)., 15/09/2014

المنشورات ـ

مقال:

- Modeling of Angiogenesis in Tumor Blood Vessels via Lattice Boltzmann Method., Sara 2023 .1 Zergani, Viswanathan K.K and Jang Hyun Lee (2021). Modeling of Angiogenesis in Tumor Blood .(Vessels via Lattice Boltzmann Method. Medical & Biological Engineering & Computing (MBEC
- KdV and fKdV Model for the RunUp of Tsunamis Via Lattice Boltzmann Method. , Sara 2018 .2 Zergani, Z.A. Aziz and K.K. Viswanathan, (2017). KdV and fKdV Model for the RunUp of Tsunamis Via Lattice Boltzmann Method. International Journal of Applied Engineering Research ISSN 0973-4562 Volume 12, Number 24 (2017) pp. 14338-14347 © Research India Publications. http://www.ripublication.com
 - Bathymetric and Morphology Effects On Estuarine Plume Dynamics in Near-Field, Mid-" 2017 .3 Field, Far-Field Regions", Sara Zergani, Vaz N., Dias J.M. (2019). "Bathymetric and Morphology Effects On Estuarine Plume Dynamics in Near-Field, Mid-Field, Far-Field Regions". Estuarine .Coastal and Shelf Science
- Bathymetric and Morphology Effects On Estuarine Plume Dynamics in Source Region." 2017 .4 Sara Zergani, Vaz N., Dias J.M. (2018). "Bathymetric and Morphology Effects On Estuarine Plume .Dynamics in Source Region". Estuarine Coastal and Shelf Science
 - Modeling of Propagation Tsunami Waves by Lattice Boltzmann Method. , Sara Zergani, 2017 .5 Z.A. Aziz and K.K. Viswanathan, Modeling of Propagation Tsunami Waves by Lattice Boltzmann

- Method. International Journal of Applied Engineering Research ,2016, ISSN 0973-4562 Volume 11, .Number 15 PP 8483-8500 © Research India Publications
- Exact solutions and Lattice Boltzmann method modelling for shallow water equations, , 2016 .6 Sara Zergani, Z.A. Aziz and K.K. Viswanathan, Exact solutions and Lattice Boltzmann method modelling for shallow water equations, Global Journal of Pure and Applied Mathematics, 2016, Vol. .12(3), pp. 2243-2266
- Elastic and seismic model for generation of tsunamis via lattice Boltzmann method, , Sara 2016 .7 Zergani, Z.A. Aziz and K.K. Viswanathan, Elastic and seismic model for generation of tsunamis via lattice Boltzmann method, Global Journal of Pure and Applied Mathematics, 2016, Vol. 12(3), pp. .1979-1999
- A shallow water model for the propagation of tsunami via Lattice Boltzmann method, , 2015 .8 Sara Zergani, Z.A. Aziz and K.K. Viswanathan, A shallow water model for the propagation of tsunami via Lattice Boltzmann method, Proceedings of The 2nd International Conferences On Geological, Geographical, Aerospaces and Earth Sciences (AeroEarth 2014), Kuta,Bali, Indonesia. 2014, pp. 43-49. (Best Paper Award at The 2nd International Conference On Geological, Geographical, Aerospaces & Earth Sciences (Aeroearth 2014)), IOP Conf. Series: Earth and .Environmental Science, 2015, Vol. 23, pp. 1-7
- he Impact of Implementing the Use of Ict in Mathematical Problem Solving in Malaysian 2013 .9 Universities,, W. Mkomange, S. Chukwuekezie, S. Zergani, And M. Ajagbe, (2013). "The Impact of Implementing the Use of Ict in Mathematical Problem Solving in Malaysian Universities,"

 .Interdisciplinary Journal Of Contemporary Research In Business, Vol. 4, P. 373

خدمة المجتمع

Academic Advising Committee (Chair) Quality Assurance Committee Member E- :16/01/2024 learning Committee Member

الجوائز والتقدير

BEST PAPER AWARD The 2nd International Conferences On Geological, Geographical, 2023 .(Aerospace & Earthscience (Aeroearth 2014

.(EXCELLENT ACHIEVEMENT AWARD In The PhD Thesis (9 September 2015 2015

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