



Dr. NOR AZWADI CHE SIDIK

B.Eng. (Kumamoto Univ., Jpn), M.Sc. (UMIST, UK), Ph.D. (Keio Univ., Jpn)

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Field of Specialization: Computational Fluid Dynamics,
Computational Heat Transfer,
Fluid Structure Interaction,
Applied Modelling & Simulation

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- Administration Post** : Head of Department of Postgraduate Studies (May 2010-Feb 2012)
Faculty of Mechanical Engineering
Universiti Teknologi Malaysia
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- Email** : azwadi@fkm.utm.my
- Date and Place of Birth** : 23rd September 1977, Kota Bharu, Kelantan, MALAYSIA
- Nationality** : Malaysian

Education/ Academic Qualification

- Sept 2004 – Apr 2007 : Ph.D. in Mechanical Engineering
Keio University, Japan
(Lattice Boltzmann Method /Computational Fluid Dynamics)
- Sept 2002 – Sept 2003 : M.Sc. in Thermal Power and Fluid Engineering
University of Manchester Institute Science and Technology, U.K.
- Apr 1997 – Apr 2001 : B.Eng. in Mechanical Engineering and Material Science
Kumamoto University, Japan.

Academic Appointments

- 2008 – present : Senior Lecturer
- 2004 – 2007 : Lecturer
- 2001 – 2003 : Tutor

Prize/Award

- 2007 : Excellent Service Award, UTM
- 2011 : Excellent Service Award, UTM
- 2011 : Indexed Journal Publication Award

International/National Level Committees/Members

Felo, Research Publication Center, Universiti Teknologi Malaysia, 1 Jun 2012- Present.

Committee Member, The 4th International Meeting on Advances in Thermo Fluid, Malacca, 2011, Malaysia.

Committee Member, The 10th Asian International Conference on Fluid Machinery, Kuala Lumpur, 21-23 Oct 2009, Malaysia.

Committee Member, The 1st International Meeting on Advances of Thermo Fluid, Johor, 26 Aug 2008, Malaysia.

Committee Member, 2011 Conference on Modelling and Simulation

Committee Member, 2011 International Meeting on Advances in Thermo Fluid

Co-chairman, 2011 Mechanical Engineering Postgraduate Conference, Universiti Teknologi Malaysia

Panel member, Program Ijazah Luar Negara, Jabatan Perkhidmatan Awam, 2011

Professional Qualification/Membership

Board of Engineers, Malaysia.

Member, International Association of Computer Science and Information Technology (IACSIT), IEEE

Member, International Association of Science and Technology for Development

Member, World Academy of Science, Engineering and Technology

Administration

Head, Department of Postgraduate Studies, Faculty of Mechanical Engineering, UTM, 2010 – 29 February 2012

Committee Member, Postgraduate Studies, University Teknologi Malaysia, 2010 - 29 February 2012

Committee Member, Postgraduate Studies, Faculty of Mechanical Engineering, UTM, 2008 – 29 February 2012.

Committee Member, Undergraduate Project, Faculty of Mechanical Engineering, UTM, 2007 – 31 October 2011.

Committee Member, Journal Impact Factor, Faculty of Mechanical Engineering, UTM, 2009 – Present.

Committee Member, Promotion Faculty, Faculty of Mechanical Engineering, UTM, 2008 – Present.

Committee Member, Facility Management, Faculty of Mechanical Engineering, UTM, Mac 2011 – 28 February 2013.

Panel Member, Academic Quality Award, UTM, 2010

Panel Member, Academic Quality Award, UTM, 2011

Panel Member, Academic Quality Award, UTM, 2012

Coordinator, Master of Engineering (Mechanical) by Taught Course, Faculty of Mechanical Engineering, UTM, 2008 – 2009.

Coordinator, Fluid Mechanics II, Faculty of Mechanical Engineering, UTM, 2007 – 2008.

Coordinator, Fluid Mechanics II, Faculty of Mechanical Engineering, UTM, 2004 – 2005.

Teaching Experience

Master of Engineering : Computational Fluid Dynamics, Computational Heat Transfer, Advanced Engineering Mathematics
Bachelor of Engineering : Computational Fluid Dynamics, Fluid Mechanics I & II, Experimental Method
External Program : Japanese Language

Supervision

Ph.D. : 1 Student – completed
Khalid Saqr (Co-supervisor)
Munther Mussa (UKM Co-S)
Saeed Jamei (Co-S)

15 students – in progress
Faraziah Hasan
Mehaboob
Nasir Salim (Co-S)
Aman Ali Khan
Leila Jahanshaloo
Sofiannuddin
Ahmat Rajab
Mehran Salehi
Noor Afiq
Ehsan Kianpoor
Mohd Omar
Azunaidi
Mohd Anuwar Jusoh
Arman Safdari
Ali Akbari

M.Eng. : 31 students – completed,

6 students – in progress
Azlin
Akmal Hamizi
Emad
Moasher
Aizuddin
Farhana

B.Eng. : 22 students – completed, 0 students – in progress

Internal/External Thesis Examiner

1. Ahmad Shafarin Shafie (Master of Engineering(Mechanical))
2. Hassan Ibrahim Hassan Mohamed Kassem (Master of Engineering(Mechanical))

Editor and Reviewer

Reviewer of submitted manuscript to

2007

Jurnal Mekanika (2)

2008

Jurnal Mekanika (1)

International Journal of Modern Physics B (4)

Journal of Applied Fluid Mechanics (3)

International Meeting on Advances in Thermofluid (Head of reviewing committee)

2009

Jurnal Mekanika (1)

Journal of Applied Fluid Mechanics (2)

International Conference on Computational Fluid Dynamics (2)

National Conference in Mechanical Engineering for Research and Postgraduate Student (1)

2010

Jurnal Mekanika (1)

International Journal of Vehicle Design (1)

Journal of Applied Science (2)

International Journal of Automotive and Mechanical Engineering (2)

Journal of Engineering Science and Technology (1)

Asian International Conference on Fluid Machinery (Head of reviewing committee)

WSEAS Conference

2011

Jurnal Mekanika (1)

International Journal of Energy & Technology (1)

Journal of Engineering Science and Technology (4)

Conference on Modelling and Simulation (4)

Journal of Mechanical Engineering and Technology (2)

WSEAS Conference

2012

Scientia Iranica (1)

Journal of Engineering Science and Technology (4)

Asian Journal of Applied Science (2)

IEM Journal (2)

Jurnal Teknologi (2)

2nd International Conference on Engineering and Technology Innovation (1)

Journal of Applied Fluid Mechanics (1)

Journal of Heat Transfer (1)

International Journal of Thermal Sciences (2)

Editor of the following Journal

Jurnal Mekanikal (2009-present)
Trends in Applied Sciences Research (2011-present)
Asian Journal of Scientific Research (2011-present)
Research Journal of Physics (2009-2010)
Journal of Applied Science (2011-present)
Asian Journal of Applied Sciences (2011-present)
CFD Letters (2009-present)
Journal of Mechanical Engineering and Technology (2011-present)
Current Research in Physics (2011-present)
Jurnal Teknologi – Special Edition (Latest trends in Fluid Mechanics Exploration (2012)

Editor of the following Proceedings

2008 International Meeting on Advances in Thermofluid
Asian International Conference on Fluid Machinery

Editor of the following Chapters in Book

Advances in Applied Numerical Methods
Latest Trend in Mechanical Engineering – part 1
Latest Trend in Mechanical Engineering – part 2

Speaker/Facilitator

1. Speaker, “Seminar kecemerlangan pelajar”, Malaysia Embassy, Japan, 17 December 2006.
2. Speaker, “How to conduct Master Project”, Seminar Hall, Faculty of Mechanical Engineering, UTM, 18 August 2010
3. Facilitator, “Bengkel Pemurnian Program Sarjana Kejuruteraan (Aeronautik), Everly Hotel and Resorts, Malacca, Malaysia, 15-17 October 2010.
4. Facilitator, “Bengkel Pemurnian Program Sarjana Kejuruteraan (Automotif), Fakulti Kejuruteraan Mekanikal, Universiti Teknologi Malaysia, 19 April 2011.
5. Invited Speaker, Faculty of Mechanical Engineering Postgraduate Conference, 2011
6. Session Chairperson, 2011 International Meeting on Advances in Thermofluid, Malaysia

Research Work

1. The development of finite different thermal lattice Boltzmann model — Project Leader. (2009-2010)
2. A study of fluid transport phenomenon over two tandem square cylinders — Project Leader. (2009-2010)
3. Lattice Boltzmann simulation of droplet motion on inclined surface – Project Leader, FRGS (1 October 2008 – 30 September 2010), RM54,000
4. Pulse detonation combustion for detonation purpose – Project Member
5. Simulation of two dimensional of droplet motion on inclined surface using lattice Boltzmann method algorithm – Project Member

6. Development of RBD Palm stearin as lubricant in metal forming process – Project Member
7. Biofuel project – Project member
8. Fluid flow through microchannel – Project member
9. Project leader, Design and development of dragchute for Malaysia aircraft, GUP (1 April 2011 – 31 Mac 2013), RM128,000.00
10. Project leader, Numerical and experimental study of flow in urban street canyon, FRGS (1 April 2012 – 31 mac 2014), RM 75,840.00
11. Project Leader, Computational and experimental study of flow dynamics in electroless nickel plating process tank for hard drive manufacturing, SEAGATE INTL (JOHOR) SDN BHD, (May 2012-Sept 2012), RM15,800.

Publications

List of Journal Papers

2006

1. N. A. C. Sidik, T. Tanahashi, “Simplified thermal lattice Boltzmann in incompressible limit”, *International Journal of Modern Physics B*, Vol. 20 (17), pp2437-2449, 2006. (IF 0.408)

2007

2. N. A. C. Sidik, T. Tanahashi, “Three-dimensional thermal lattice Boltzmann simulation of natural convection in a cubic cavity”, *International Journal of Modern Physics B*, Vol. 21 (1), pp87-96, 2007. (IF 0.408)
3. N. A. C. Sidik, T. Tanahashi, “The development of thermal lattice Boltzmann models incompressible limit”, *Journal of Fundamental Science*, Vol. 3, pp193-202, 2007.
4. N. A. C. Sidik, T. Tanahashi, “Two-phase flow simulation with lattice Boltzmann method”, *Jurnal Mekanika*, Vol. 24 pp68-79, 2007.

2008

5. N. A. C. Sidik, T. Tanahashi, "Development of 2D and 3D double population thermal lattice Boltzmann models", *MATEMATIKA*, Vol 24(1), pp53-66, 2008.
6. N. A. C. Sidik, T. Tanahashi, “Simplified finite difference thermal lattice Boltzmann method”, *International Journal of Modern Physics B*, Vol 22 (22), 3865-3876, 2008. (IF 0.408)
7. N. A. C. Sidik, K. Osman, A. Z. Khudzairi and Z. Ngali, “Numerical investigation of lid-driven cavity flow based on two different methods; lattice Boltzmann and splitting method”, *Jurnal Mekanikal*, Vol. 25 pp1-8, 2008.
8. N. A. C. Sidik, A. R. M. Rosdzimin, "Simulation of natural convection heat transfer in an enclosure using lattice Boltzmann method", *Jurnal Mekanikal*, Vol. 27 pp42-50, 2008.

2009

9. N. A. C. Sidik, A. R. M. Rosdzimin, "Cubic-interpolated-pseudo-particle thermal BGK lattice Boltzmann numerical scheme for solving incompressible thermal fluid flow problem", *Malaysian Journal of Mathematical Science*, Vol. 3, No. 2, 2009. (SCOPUS)
10. N. A. C. Sidik, S. Syahrullail "A three-dimension double-population thermal lattice BGK model for simulation of natural convection heat transfer in a cubic cavity", *WSEAS Transaction in Mathematics*, Vol. 8, No. 9, 2009, pp. 561. (SCOPUS)

11. N. A. C. Sidik, "Lattice Boltzmann simulation of natural convection and fluid flow around a heated cylinder in a enclosed square", *Journal of Materials Science and Engineering*, Vol. 3, No. 8, 2009, pp.44-48.
12. N. A. C. Sidik "Prediction of Natural Convection in a Square Cavity with Partially Heated from below and Symmetrical Cooling from sides by the Finite Difference Lattice Boltzmann Method", *European Journal of Scientific Research*, Vol. 35, No. 3, 2009, pp. 347-354. (SCOPUS)
13. N. A. C. Sidik, M. Rosdzimin and M. Hussein Al Mola "Constrained Interpolated Profile for Solving BGK Boltzmann Equation", *European Journal of Scientific Research*, Vol. 35, No. 4, 2009, pp. 559-569. (SCOPUS)
14. N. A. C. Sidik "A 3D lattice BGK Scheme for Simulation of Thermal Flow in Cubic Cavity", *European Journal of Scientific Research*, Vol. 37, No. 1, 2009, pp. 49-57. (SCOPUS)
15. S. Syahrullail, N. A. C. Sidik and W. B. Seah "Plasticity analysis of pure aluminium extruded with an RBD palm olein lubricant", *Journal of Applied Science*, Vol. 9, No. 19, 2009, pp. 3581-3586. (SCOPUS)
16. N. A. C. Sidik and A. R. M. Rosdzimin "Mesoscale investigation of natural convection heat transfer from a heated cylinder inside square enclosure", *European Journal of Scientific Research*, Vol. 38, No. 1, 2009. (SCOPUS)
17. N. A. C. Sidik and S. A. Osman "UTOPIA finite difference lattice Boltzmann method for simulation natural convection heat transfer from a heated concentric annulus cylinder", *European Journal of Scientific Research*, Vol. 38, No. 1, 2009. (SCOPUS)
18. N. A. C. Sidik and C. H. Ng "Lattice Boltzmann modelling of microchannel flow", *Journal of Material Science and Mechanical Engineering*, Vol. 3, No. 12, 2009, pp.1-6.
19. N. A. C. Sidik and Syahrullail Samion, "Lattice Boltzmann numerical prediction of the flow behaviour downstream of cylinder blockage at various Reynolds numbers", *International Journal of Mechanical System Science and Engineering*, Volume 1, 2009, pp. 7-11.
20. Syahrullail S., N. A. C. Sidik, M.J.M. Ridzuan and Seah W.B, "The effect of lubricant viscosity in cold forward plain strain extrusion test", *European Journal of Scientific Research*, Volume 38(4), 2009, pp. 545-555. (SCOPUS)

2010

21. N. A. C. Sidik, M. Y. Mohd Fairus and S. Samion "Virtual study of natural convection heat transfer in an inclined square cavity", *Journal of Applied Science*, 10(4), 331-336. 2010 (SCOPUS)
22. N. A. C. Sidik and M. Irwan "Macro-and meso-scale simulations of free convective heat transfer in a Finite difference cavity at various aspect ratio", *Journal of Applied Science*, 10(3), 203-208. 2010(SCOPUS)
23. N. A. C. Sidik and S. M. Idris "Finite difference and lattice Boltzmann modelling for simulation of natural convection in a square cavity", *International Journal of Mechanical and Material Engineering*, 5(1), 80-86. 2010(SCOPUS)
24. A. R. M. Rosdzimin, S. M. Zuhairi and N.A.C. Sidik, "Simulation of mixed Convection Heat Transfer using Lattice Boltzmann Method", *International Journal of Automotive & Mechanical Engineering*, 2, 130-143. 2010
25. N. A. C. Sidik, Khalid Saqr and M. A. Wahid "Theoretical notes on the mathematical modelling of gaseous detonation using Boltzmann equation", *Journal of Applied Science*, 10(14), 1476-1480. 2010(SCOPUS)

26. N. A. C. Sidik and Idris Mat Sahat, "Mesoscale numerical approach to predict macroscale fluid flow problem", *Journal of Applied Science*, 10(15), 1511-1524. 2010(SCOPUS)
27. N. A. C. Sidik and N. I. N. Ibrahim "Mesoscale Simulation of Natural Convection in an inclined square cavity", *WSEAS Transaction on Mathematics*, 9(6), 417-426. 2010(SCOPUS)
28. N. A. C. Sidik and M. I. M. Azmi "Simplified Mesoscale Lattice Boltzmann Numerical Model for Prediction of Natural Convective Heat Transfer in a Square Geometry filled with Porous Media", *WSEAS Transaction on Fluid Mechanics*, 5(3), 186-195. 2010(SCOPUS)
29. N. A. C. Sidik, A. M. Adi Maimun, A. Priyanto, S. Jameei "Aerodynamic Characteristics of Wing of WIG Catamaran vehicle During Ground Effect", *WSEAS Transaction on Fluid Mechanics*, 5(3), 196-205. 2010 (SCOPUS)
30. N. A. C. Sidik, N. C. Horng, M. Mussa and S. Abdullah "Simulation of rarefied gas flow in slip and transitional regimes by the lattice Boltzmann method", *CFD Letters*, 2(2), 66-74. 2010 (SCOPUS)
31. N. A. C. Sidik and M. R. M. Zin, "An accurate numerical method to predict fluid flow in a shear driven cavity", *International Review of Mechanical Engineering*, 4(6). 2010 (SCOPUS)
32. N. A. C. Sidik and M. Z. M. Rody "Modelling of dynamics of the droplet using lattice Boltzmann method", *International Journal of Mechanical and Material Engineering*. 5(2), 276-281. 2010 (SCOPUS)
33. N. A. C. Sidik, S. Samion "Virtual investigation of plume behaviour from a heated eccentric cylinder", *International Journal of Mechanical and Material Engineering*. 5(2), 129-135. 2010 (SCOPUS)
34. N. A. C. Sidik, M. I. M. Azmi and M. Goudarzi, "Numerical Investigation of Incompressible Fluid Flow through Porous Media in a Lid-Driven Square Cavity", *American Journal of Applied Science*. 7(10), 1341-1344, 2010 (SCOPUS)
35. N. A. C. Sidik and T. Tanahashi, "A three-dimension double population thermal lattice BGK model for simulation of natural convection heat transfer in a cubic cavity", *MATEMATIKA*, 26(2), 157-165, 2010.
36. N. A. C. Sidik, M. S. Nor Hamizan and N. M. Ammar, "Assessment of lattice Boltzmann simulation scheme in predicting two phase (solid-fluid) flow", *Jurnal Mekanikal*, 31, 11-16, 2010.
37. N. A. C. Sidik and M. I. M. Azmi, "An accurate numerical prediction of fluid flow through porous media", *Intl Journal of Geology*, 4(2), 36-40, 2010.
38. N. A. C. Sidik, M. Z. M. Rody, M. A. Salim, A. M. Fudhail and M. Z. Hassan, "Numerical study of droplet dynamics on solid surface", *Journal of Mechanical Engineering and Technology*, 2(2), 91-100, 2010

2011

39. N. A. C. Sidik, N. M. I. Nik Ibrahim and F. A. Munir, "Numerical simulation of natural convection in an inclined square cavity", *Journal of Applied Science*, 11(2), 373-378. 2011 (SCOPUS)
40. N. A. C. Sidik and S. Samion, "The effect of tool surface roughness in cold work extrusion", *Journal of Applied Science*, 11(2), 367-372. 2011 (SCOPUS)
41. N. A. C. Sidik, Munther Mussa, S. Abdullah, N. Muhammad, "Simulation of natural convection heat transfer in an enclosure by the lattice Boltzmann method", *Computers and Fluids*, 44(1), 162-168. 2011 (IF1.270)

42. N. A. C. Sidik, S. Syahrulail and T. C. Ing, "The metal flow evaluation of billet extruded with RBD palm stearin" *International Review of Mechanical Engineering*, 5(1), 21-27. (2011) (SCOPUS).
43. S. Syahrullail, B. M. Zubil, C. S. N. Azwadi, M. J. M. Ridzuan "Experimental evaluation of palm oil as lubricant in cold forward extrusion process" *International Journal of Mechanical science*, 53(7), 549-555.(2011) (IF 1.266)
44. N. A. C. Sidik and S. M. R. Attarzadeh "An accurate numerical prediction of solid particle fluid flow in a lid-driven cavity" *International Journal of Mechanics* 5 (3), 123-128. (2011)(SCOPUS)
45. M. Munther, S. Abdullah, N. A. C. Sidik, R. Zulkifli "Lattice boltzmann simulation of cavity flows at various reynolds numbers" *International Review on Modelling and Simulations* 4(4), 1909-1919. (2011) SCOPUS.
46. N. A. C. Sidik, W. L. Koh "Prediction of supersonic flow over compression corner" *Journal of Applied Science*, 11(19), 3397-3404, (SCOPUS).
47. N. A. C. Sidik and Leila Jahanshaloo "Prediction of dynamics of solid particles using lattice Boltzmann method" *International Review of Mechanical Engineering*, 5(7), 1235-1240.(SCOPUS)
48. A. M. Fudhail, Mohd Irwan, Mohd Rody, Nor Azwadi, Azli "Application of lattice Boltzmann method for lid-driven cavity flow" *International Review of Mechanical Engineering*, 5(5), 856-861.(SCOPUS)
49. N. A. C. Sidik, G. Masoud and Afiq Witri "Prediction of the dynamics of droplet on solid surface using lattice Boltzmann method" *International Review of Mechanical Engineering*, 5(7), 1241-1245.(SCOPUS)
50. Fudhail Abdul Munir and Nor Azwadi "Numerical Simulation of flow behavior in shear driven cavity at High Reynolds number" *IJUM Engineering Journal*, 12(6) 97-103.

2012

51. A. M. Fudhail, Mohd Rody, Nor Azwadi and Azli Salim "Accurate numerical prediction of incompressible fluid flow in lid driven cavities" *Applied Mechanics and Materials* 110, 4365-4372. (2012)(SCOPUS)
52. N. A. C. Sidik, S. M. R. Attarzadeh "The use of cubic interpolation method for transient hydrodynamics of solid particle" *International Journal of Engineering Science*, 51, 90-103. (2012)(IF 1.194)
53. M. Irwan and Nor Azwadi "Numerical prediction of natural convection heat transfer through porous media by the lattice Boltzmann Method" *Applied Mechanics and Materials* 110, 4439-4444. (2012)(SCOPUS)
54. Nor Azwadi, M. Reza Attarzadeh and F. Haghbin "Cubic-Interpolated-Pseudo-Particle Method to Predict Dynamic Behaviour of Fluid in Shear Driven Cavity" *Applied Mechanics and Materials* 110, 377-384. (2012)(SCOPUS)
55. Nor Azwadi and Mehran Salehi "Eulerian Lagrangian numerical scheme for contaminant removal from cavity in horizontal channel" *Advanced Science Engineering and Medicine* 4, 432-437. (2012).
56. Nor Azwadi and Idris Mat Sahat "Finite difference and cubic interpolated profile lattice Boltzmann method for prediction of two-dimensional lid-driven shallow cavity flow" *Arabian Journal of Science and Engineering*, 37(4), 1101-1110. (IF 0.224).
57. Mehran Salehi, Nor Azwadi Che Sidik, "Prediction of flow characteristics in stenotic artery using CIP Scheme" *International Journal of Materials and Mechanical Engineering*, 7, 101-106. (SCOPUS)

58. Nor Azwadi and Fudhail Abdul Munir “Lattice Boltzmann Numerical Prediction of Fluid Flow in Various Shapes of Shear Driven Cavity” *International Review of Mechanical Engineering*, 6(3). (SCOPUS)
59. Nor Azwadi, Mehran Salehi, Adrian Syah “Cubic Interpolation Profile Method For Transient Hydrodynamics of Solid Particles in Enclosure” *International Review of Mechanical Engineering*, 6(3). (SCOPUS)
60. Nor Azwadi Che Sidik and Nik Izual Nik Ibrahim “Numerical investigation of fluid and thermal flow in a differentially heated side enclosure walls at various inclination angles” *CMES: Computer Modeling in Engineering & Sciences*,84(6), 559-574. (SCOPUS)
61. Saeed Jamei, Adi Maimun, Nor Azwadi and Suhaimi Mansor “Numerical Investigation on Aerodynamic Characteristics of a Compound Wing in Ground Effect” *Journal of Aircraft*, Accepted for Publication (IF0.552)
62. Nor Azwadi, Leila Jahanshaloo “Computational analysis of particulate flow in expansion channel” *American Journal of Applied Science*, Article in Press. (SCOPUS)
63. Nor Azwadi and Fudhail Abdul Munir “Mesoscale Numerical Prediction of Fluid Flow in a Shear Driven Cavity” *Arabian Journal of Science and Engineering*, Article in Press. (IF0.224)
64. Ali Akbari, Arman Safdari, Poortousi, Nor Azwadi Che Sidik, “Prediction of particle dynamics in Lid-driven cavity flow” *International Review of Modelling and Simulation*, Accepted for publication. (SCOPUS).
65. Mehran Salehi, Nor Azwadi Che Sidik, “Numerical Prediction of Mixed Convection Heat Transfer in an Enclosure” *International Review of Modelling and Simulation*, Accepted for publication. (SCOPUS)
66. Mehran Salehi, Nor Azwadi Che Sidik, “Numerical Simulation of Flow over Semicircular Cavity” *International Review of Modelling and Simulation*, Accepted for publication. (SCOPUS)
67. Nor Azwadi Che Sidik, Afiq Witri and Khalid Saqr, “Flow Structure and Pollutant Dispersion in Symmetric Street Canyons: A Review” *International Journal of Materials and Mechanical Engineering*, Accepted for publication (SCOPUS)
68. Nor Azwadi Che Sidik and Godarzi Masoud, “Solution to Natural Convection Heat Transfer by Two Different Approaches: Navier Stokes and Lattice Boltzmann” *International Review of Mechanical Engineering*, Accepted for publication. (SCOPUS)

List of Proceeding Papers

1. N. A. C. Sidik, T. Tanahashi, “Numerical simulation of laminar flow over a backward-facing step geometry for various expansion ratio using lattice Boltzmann method”, *Proceeding, 19th Japan Symposium on Computational Fluid Dynamics*, 13-15 Dec. 2005, Tokyo, Japan.
2. N. A. C. Sidik, T. Tanahashi, “Simplified thermal lattice Boltzmann in incompressible limit”, *Proceeding, 11th Asian Congress of Fluid Mechanics*, 22-25 May. 2006, Kuala Lumpur, Malaysia.

3. N. A. C. Sidik, T. Tanahashi, "Laminar flow over a backward-facing step geometry for various expansion ratio using lattice Boltzmann method", *Proceeding, 11th Asian Congress of Fluid Mechanics*, 22-25 May. 2006, Kuala Lumpur, Malaysia.
4. N. A. C. Sidik, T. Tanahashi, "Simplified thermal lattice Boltzmann model for simulation of thermal flow in incompressible limit", *Proceeding, 17th International Symposium of Transport Phenomena*, 4-8 Sept. 2006, Nagoya, Japan.
5. N. A. C. Sidik, T. Tanahashi, H. Noguchi, "Three-dimensional thermal lattice Boltzmann simulation of natural convection in a cubic cavity", *Proceeding, 20th Japan Symposium on Computational Fluid Dynamics*, 13-15 Dec. 2006, Osaka, Japan.
6. N. A. C. Sidik, T. Tanahashi, "Development of 2-D and 3-D double population thermal lattice Boltzmann models", *Proceeding, 2nd International Conference on Mathematical Science*, 28-29 May, 2007, Johore, Malaysia.
7. N. A. C. Sidik, T. Tanahashi, H. Noguchi, "Simplified finite difference thermal lattice Boltzmann method", *Proceeding, 18th International Symposium of Transport Phenomena*, 27-30 Aug. 2007, Daejeon, Korea.
8. N. A. C. Sidik, T. Tanahashi, "A three-dimensional double population thermal lattice Boltzmann model", *Proceeding, 18th International Symposium of Transport Phenomena*, 27-30 Aug. 2007, Daejeon, Korea.
9. N. A. C. Sidik, "Finite difference incompressible lattice Boltzmann model for the simulation of 2-D lid-driven cavity flow", *Proceeding, Engineering, Mathematics and Architecture Regional Conference*, 27-28 Nov. 2007, Kuala Lumpur, Malaysia.
10. N. A. C. Sidik, K. Osman, A. Z. Khudzari, M. Z. Ngali, "Solution to Navier-Stokes equation for cavity problem; Comparisons between lattice Boltzmann and splitting method", *Proceeding, Engineering, Mathematics and Architecture Regional Conference*, 27-28 Nov. 2007, Kuala Lumpur, Malaysia.
11. N. A. C. Sidik, "Incompressible finite difference double population thermal lattice Boltzmann method", *Proceeding, 1st Engineering conference on Energy and Environment*, 27-28 Dec. 2007, Sarawak, Malaysia.
12. N. A. C. Sidik, "Lattice Boltzmann simulation of natural convection in a square cavity with partially heated from below and symmetrical cooling from sides", *Proceeding, International Conference on Mechanical and Engineering 2008*, 21-23 May. 2008, Johor, Malaysia.
13. N. A. C. Sidik, J. M. Sheriff, K. Osmani and F. Zawawi, "Fluid transport phenomena over a rectangular cylinder in channel flow", *Proceeding, International Conference on Mechanical and Engineering 2008*, 21-23 May. 2008, Johor, Malaysia.
14. N. A. C. Sidik and M. F. Hassan, "Lattice Boltzmann scheme on natural convection heat transfer from a heated cylinder in a square enclosure", *Proceeding, Regional Annual Fundamental Science Seminar 2008*, 27-29 May. 2008, Johor, Malaysia.
15. N. A. C. Sidik, "Study of the effect of time relaxation BGK lattice Boltzmann collision model on the speed on convergence", *Proceeding, Regional Annual Fundamental Science Seminar 2008*, 27-29 May. 2008, Johor, Malaysia.
16. N. A. C. Sidik, A. R. M. Rosdzimin, M. A. Mussa and S. Abdullah, "Numerical simulation of deep lid-driven cavity flow using lattice Boltzmann method", *Proceeding, International Meeting on Advances in Thermo Fluid*, 26 August. 2008, Johor, Malaysia.
17. A. R. M. Rosdzimin and N. A. C. Sidik, "Simulation of natural convection in square cavity with localized heating using lattice Boltzmann method", *Proceeding, International Meeting on Advances in Thermo Fluid*, 26 August. 2008, Johor, Malaysia.

18. Munther A. Mussa, Sharir Abdullah, Nor Azwadi, M. Rosdzimin and Norhamidi Muhamad, "Numerical simulation of shallow lid-driven cavity flow using lattice Boltzmann method", *Proceeding, Engineering Postgraduate Conference*, 21-22 October. 2008, Selangor, Malaysia.
19. N. A. C. Sidik, A. R. M. Rosdzimin, "Study of flow pattern and heat transfer mechanism form a heated cylinder inside square enclosure at various Rayleigh numbers", *Proceeding, 3rd Brunei International Conference on Engineering and Technology*, 3-5 November. 2008, Bandar Sri Begawan, Brunei.
20. N. A. C. Sidik, "Lattice Boltzmann simulation of natural convection and fluid flow around a heated cylinder in a enclosed square", *Proceeding, 9th International Heat Pipe Symposium*, 18-20 November. 2008, Selangor, Malaysia.
21. M. A. Mussa, S. Abdullah, N. A. C. Sidik and N. Muhamad, "Numerical Simulation of Lid-driven cavity flow using the lattice Boltzmann method", *Proceeding, WSEAS Conference on Applied Mathematics*, December. 2008, Spain.
22. M. Z. M. Rody and N. A. C. Sidik, "Study of flow pattern around two cylinders in tandem arrangement ", *Proceeding, Intl. Graduate Conference on Engineering and Sciences*, 25-27 December. 2008, Johor , Malaysia.
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