

## **BIO- DATA**

Name : **Dr. VAKA MURALI MOHAN**

Designation : Professor and Head,  
Dept. Computer Science & Engineering

Experience : **10 years of Teaching and Research**

Qualification : *B. Tech (Chemical Engineering)*  
*M. Tech (Chemical Engineering)*  
*M. Tech (Computer Science)*  
*Ph D (Andhra University, 2008)*  
**(Ph D CSE) (GITAM University)- Submitted**



### ❖ **Total Research Papers: 51**

✍ *International Journal Publications* : 23 (+4)  
✍ *National Journal Publications* : 02  
✍ *International Conference Papers* : 12  
✍ *National Conference Papers* : 10

### ❖ **Text Books : 03**

✍ *The Modern approach to Web Technologies (SCITECH PUBLISHERS)*  
(ISBN 978 81 8371 314 6)  
✍ *Computer Graphics (SCITECH PUBLISHERS)*  
(ISBN 978 81 8371 4488)  
✍ *Computer Organization (SCITECH PUBLISHERS) INPRESS*  
✍ *General Chemical Technology (SCITECH PUBLISHERS)*  
▪ *Reference book in JNTUH Syllabus*

❖ **GATE 2002** Qualified with **83.08** Percentile, attained **MHRD stipend of Rs.5000/-** per month for M.Tech course

❖ **Editor-in-Chief** for *International Journal of Advances in Soft Computing Technology (ISSN: 2229-3515)*

❖ **Editor-in-Chief** for *International Journal of Computers, Electrical and Electronics Engineering (ISSN: 2248-9584)*

❖ **Member, Editorial Board** for *International Journal of Electrical, Electronics & Computing Technology (ISSN: 2229-3027)*

❖ **Member, Editorial Board** for *International Journal of Nanosystems (ISSN:0973-7332)*

❖ **REVIEWER for TWO International Elsevier Journals**

- ✍ Chemical Engineering Journal (ISSN: 1385-8947)
- ✍ Chemical Engineering and Processing Journal (ISSN:0255-2701)
- ✍ Desalination (ISSN: 0011-9164)

- Conferences / Workshops attended : 08
- Conferences / Workshops conducted : 08
- M. Tech Projects Guided : 10
- M. Tech Projects Guiding : 12

**PROJECT WORKS:**

**Ph. D (CSE) :** *A novel approach to improve the performance index in transport process by using artificial neural networks* **(Submitted at GITAM UNIVERSITY)**

*(4 papers Published in International Journals)*

Research Directors: **DR. J. A. CHANDULAL** (GITAM University)  
& **DR. A. VINAYA BABU** (JNTU Hyderabad)

**Ph. D:** *“Studies on Ionic mass and momentum transfer with coaxially placed entry region coil – disc as turbulence promoters in the circular conduit”*  
*(3 papers presented in Int. Conferences and 3 papers are in international Journals)*

Research Director: **DR. P. RAJENDRA PRASAD** (Andhra University)

**M. Tech (CS) :** Information Technology for farmers

**M. Tech (ChE) :** Studies on controlled release fertilizer – Potassium Chloride  
*(Published in Indian Chemical Engineer Journal Vol.47/No.3, July-Sep.2005, pp 161 – 166)*

**B. Tech:** Binary solids segregation in a Batch fluidized Bed  
(NCCBPE, SVUCE Titupathi, Sec.1/101, 13-14, Dec, 2007, pp 1-7)

**Research Experience: 7 Years**  
**(2004 - 2011)**

**Journal Publications**

- 1) Vaka Murali Mohan et al “*Studies on slow release fertilizer – Potassium Chloride*” *Indian Chemical Engineer Journal*, Vol. 47/ No.3, July-Sep. 2005, pp 161-166. (ISSN: 0019-4506)
- 2) Vaka Murali Mohan et al “*Studies on mass transfer with coaxially placed entry region coil – disc assembly as turbulence promoter in circular conduits*” *Experimental Thermal and Fluid Science Journal*, Vol.32/8, 2008, pp1748-1753 (ISSN: 0894-1777) (**Elsevier**)
- 3) Vaka Murali Mohan et al “*Studies on batch drying kinetics of green peas and horse gram*” *International Journal of Nanosystem*, Vol. 1, Issue 1, Jan – June 2008, pp 23-27. (ISSN: 0973-7332)
- 4) Vaka Murali Mohan et al “*Studies on controlled release fertilizer of potassium chloride made with manure matrix*” *International Journal of Nanosystem*, Vol. 1, Issue 1, Jan – June 2008, pp 67-71. (ISSN: 0973-7332)
- 5) Vaka Murali Mohan et al “*Model development for mass transfer function with coaxially displaced disc as turbulence promoter in tube*” *International Journal of Nanosystem*, Vol. 1, Issue 1, Jan – June 2008, pp 73-79. (ISSN: 0973-7332)
- 6) Vaka Murali Mohan et al “*Studies on drying kinetics of prawn head in a batch dryer*” *International Journal of Nanosystem*, Vol. 1, Issue 1, Jan – June 2008, pp 107-110. (ISSN: 0973-7332)
- 7) Vaka Murali Mohan et al “*Equilibrium studies on adsorption of Cadmium by using coconut husk powder as an adsorbent*” *International Journal of Material Research, Electronics & Electrical system*, Vol. 1/1, June 2008, pp 57-62. (ISSN: 0974-6978)
- 8) Vaka Murali Mohan et al “*Routing in 2-D and 3-D cyber space models using Genomic based algorithms*” *International Journal of Nano system tech., Electirical Engg & Electronics*, Vol.1/1, June 2008, pp11-15. (ISSN: 0974-6447)
- 9) Vaka Murali Mohan et al “*Genomic routing of packets in 3-dimensional cyber space models*” *GITAM Journal of Information Communication Tech.*, Vol.1/1, July–Dec 2008, pp149-156 (ISSN:0974- 4622)
- 10) Vaka Murali Mohan et al “*Modeling a Simulated pH Continuous Stirred Tank Reactor using MLP Artificial Neural Networks*” *International Journal of Computer Sciences, Software Engineering and Electrical Communication Engineering*, Vol.1/1, 2009, pp 55 – 60. (ISSN: 2229-3175)
- 11) Vaka Murali Mohan et al “*Hydrodynamics and energy consumption studies in a three-phase liquid circulating three-phase fluid bed contactor*” *Experimental Thermal and Fluid Science Journal*, Vol.33, 2009, pp 791-796. (ISSN: 0894-1777) (**Elsevier**)

12) Vaka Murali Mohan et al “Mass Transfer in circular conduit with coaxially placed disc as turbulence promoter” *Chemical Engineering and Processing J*, Vol.48, 2009, pp 969–974 (**Elsevier**) (ISSN: 0255-2701)

13) Vaka Murali Mohan et al “Development of controlled release fertilizer by using fly ash” *Indian Chemical Engineer Journal*, Vol. 51, No.1, Jan – March 2009, pp 1-13 (ISSN: 0019-4506)

14) Vaka Murali Mohan et al “Development of low density red clay bricks by using Fly Ash” *International Journal of Nano System Technology, Electrical Engineering and Electronics System*, Vol.2, Issue 1-2, Jan – Dec 2009, pp 15-20. (ISSN: 0255-2701)

15) Vaka Murali Mohan et al “Diffusive model with shrinkage in the drying of Fish” *International Journal of Nano Science, Nano Engineering & NanoTechnology*, Vol.1/1, 2009, pp1-5. (ISSN: 0255-2701)

16) Vaka Murali Mohan et al “Mass transfer correlation development for the presence of entry region coil as swirl Promoter in tube” *Journal of Thermal Sciences*, Vol. 49, Feb 2010, pp 356-364. (**Elsevier**) (ISSN: 1290-0729)

17) Vaka Murali Mohan et al “Artificial Neural Networks Model for the Prediction of Momentum Transfer Function in Tube” *International Journal of Electrical, Electronics and Computing Technology*, Vol.1/1, Sept.–Dec.2010, pp 29-33. (ISSN: 2229-3027)

18) Vaka Murali Mohan et al “ANN Model for the Enhancement of Momentum Transfer Function with Disc insert in Circular Conduit” *International Journal of Electrical, Electronics and Computing Technology*, Vol.1/1, Sept.–Dec.2010, pp 41-45. (ISSN: 2229-3027)

19) Vaka Murali Mohan et al “Modeling of mass transfer correlation for the presence of entry region twisted tape as swirl promoter in tube” *International Journal of Chemical Engineering*, Vol.3, Issue 2, 2010, pp 95-107. (ISSN: 0974-5793)

20) Vaka Murali Mohan et al “Momentum transfer with coaxially placed disc as insert promoter in tube” *International Journal of Fluid Mechanics*, Vol.3, Issue 2, 2010, pp 95-107. (ISSN: 0975-4199)

21) Vaka Murali Mohan et al “Artificial neural networks model for mass transfer enhancement in circular conduit” *Int. J. of Computer Applications in Engineering, Technology & Sciences (IJ-CA-ETS)*, Vol.3, Issue1, Oct 2010 – March 2011, pp 42-46. (ISSN: 0974-3596)

22) Vaka Murali Mohan et al “Artificial Neural Network Model for Disc Promoter in Circular Conduit” *Int. J. of Computer Applications in Engineering, Technology & Sciences (IJ-CA-ETS)*, Vol.3, Issue1, Oct 2010 – March 2011, pp 47-51. (ISSN: 0974-3596)

23) Vaka Murali Mohan et al “Mining association rules for frequent pattern and data cubing” *International Journal of Advances in Soft Computing Technology*, Volume 1, Issue 2, July-December 2011, pp 75-79. (ISSN: 2229-3515)

24) Vaka Murali Mohan et al “Improvement of the performance index in transport process by using ANN” International Journal of Advances in Soft Computing Technology, Volume 2, Issue 1, Jan-June 2012 **In Press** (ISSN: 2229-3515)

25) Vaka Murali Mohan et al “Enterprise Architecture Managing Information Security in a Business Network” International Journal of Advances in Soft Computing Technology, Volume 2, Issue 1, January-June 2012, pp 15-21. (ISSN: 2229-3515)

26) Vaka Murali Mohan et al “Artificial Neural Network (ANN) model for the enhancement of mass transfer in tube” Applied Soft Computing Journal, (**Elsevier**) **Under Review**

### Conference Papers

1) Vaka Murali Mohan et al “Fly ash disposal and development of low alumina low temperature fly ash refractory” Recent Advances in Chemical Engineering, SVU Tirupathi, Sec 2, 2006, pp 61- 65.

2) Vaka Murali Mohan et al “Kinetics of controlled release fertilizer - Potassium Chloride” Recent Advances in Chemical Engineering, SVU Tirupathi, Sec 2, 2006, pp 79-87.

3) Vaka Murali Mohan et al “Studies on CRF Potassium Chloride made from fly ash and lime inert matrix” Recent Advances in Chemical Engineering, SVU Tirupathi, Sec 3, 2006, pp 107-116.

4) Vaka Murali Mohan et al “Studies on controlled release fertilizer zinc sulfate made from fly ash and sand inert matrix” Recent Advances in Chemical Engineering, SVU Tirupathi, Sec 3, 2006, pp 135-141.

5) Vaka Murali Mohan et al “Studies on hydrodynamics and energy consumption in a liquid circulating three phase fluid bed contactor” Recent Trends in Mechanical Engg, Tiruchirapalli, Feb 2007, pp 171-175.

6) Vaka Murali Mohan et al “Segregation of solids in a batch fluidized bed” NCCBPE, SVUCE Titupathi, Sec.1/101, 13-14, Dec, 2007, pp 1-7.

7) Vaka Murali Mohan et al “Momentum transfer with coaxially placed entry region coil as swirl promoter in Circular conduits” NCCBPE, SVUCE Titupathi, Sec.1/105, 13-14, Dec, 2007, pp 30-38.

8) Vaka Murali Mohan et al “Drying kinetics of prawn head in a batch dryer” NCCBPE, SVUCE Titupathi, Sec.1/107, 13-14, Dec, 2007, pp 45-50.

9) Vaka Murali Mohan et al “Biosorption of copper using Cocos Nucifera L as an adsorbent” NCCBPE, SVUCE Titupathi, Sec.2/209, 13-14, Dec, 2007, pp 150-155.

- 10) Vaka Murali Mohan et al “Studies on ionic mass and momentum transfer with coaxially placed twisted tape – disc Assembly as turbulence promoter in circular conduit” AIChE 2007, Spring national meeting, Texas, USA, Sec 56e, April – 2007.
- 11) Vaka Murali Mohan et al “Diffusive model with shrinkage in the drying of fish” CITICOMS 2007, Coimbatore, Aug- 2007, page 19
- 12) Vaka Murali Mohan et al “Development of low alumina low temperature fly ash refractory” CERATEC 2007, A.U, Visakhapatnam Jan 2007, page 126
- 13) Vaka Murali Mohan et al “Mass transfer with coaxially placed twisted tape- disc assembly as turbulence promoter in circular conduit” CITICOMS 2007, Coimbatore, Aug- 2007, page 19
- 14) Vaka Murali Mohan et al “Studies on batch drying kinetics of Green Peas, Horse Gram, Red Gram, Red Chillies” AIChE Annual meeting, Salt Lake City, Utah, Sec 587a, Nov. 4 -9, 2007
- 15) Vaka Murali Mohan et al “Studies on local mass transfer with orifice-disc turbulence promoter” AIChE Annual meeting, Salt Lake City, Utah, USA, Sec 66a, Nov. 4 -9, 2007
- 16) Vaka Murali Mohan et al “Mass transfer enhancement of turbulent flow in a circular conduits” AIChE Annual meeting, Salt Lake City, Utah, USA, Sec 66c, Nov. 4 -9, 2007
- 17) Vaka Murali Mohan et al “Studies on mass transfer with coaxially placed entry region coils as turbulence promoter in circular conduits” AIChE Annual meeting, Salt Lake City, Utah, USA, Sec 332i, Nov. 4 -9, 2007
- 18) Vaka Murali Mohan et al “Fly ash utilization and development of low density red clay bricks” AIChE Annual meeting, Salt Lake City, Utah, U S A, Sec. 283e, Nov. 4 -9, 2007
- 19) Vaka Murali Mohan et al “Flow pattern and mass transfer of swirling flows in circular conduits with coaxially placed entry region coils as promoter” CHEMICON – 2007, Doc, No: 1083, 31<sup>st</sup> December 2007
- 20) Vaka Murali Mohan et al “Diffusive model with shrinkage in the drying of fish” CHEMICON – 2007, Doc, No: 3045, 31<sup>st</sup> December 2007
- 21) Vaka Murali Mohan et al “Mass transfer with coaxially placed entry region coil – disc assembly as turbulence promoter in vertical tube flow reactor” AIChE, Spring national meeting, New Orleans, USA, Sec.224e, April 6-10, 2008
- 22) Vaka Murali Mohan et al “Image Processing Representation by using Binary image; Grayscale, Color image and Histogram” National Conference on Data modeling, Image Analysis and Pattern Recognition (DMIAPR 2011)” GITAM University, Vishakhapatnam, 30<sup>th</sup> September 2010 –1<sup>st</sup> October 2011,



### **Conferences Attended**

1. “National conference on Recent Advances in Chemical Engineering”, SVU College of Engineering, Tirupathi, Nov.17-18, 2006
2. “International conference on Ceramics CERATEC 2007, A.U. College of Engineering, Visakhapatnam, January 7-10, 2007.
3. “National conference on Chemical and Bio process Engineering”, SVU College of Engineering, Tirupathi, Dec.13-14, 2007
4. “National conference on “Emerging Trends in Data Mining, Ware Housing and Computer Communications” organized by Sreenidhi Institute of Science and Technology, Hyderabad on 29-30<sup>th</sup>, June 2009.
5. “National conference on Image Processing”, GITAM Institute of Technology, GITAM University, Vishakhapatnam, 30<sup>th</sup> September to 1<sup>st</sup> October, 2011.

### **Workshops Attended**

1. Attended two-day workshop on “Advanced separation process”, in Vignan’s Engineering College in November 21 -24<sup>th</sup>, 2005, in Chemical Engineering Department.
2. Attended five-day workshop on “Neural Networks”, in Vignan’s Engineering College in December 12- 16<sup>th</sup>, 2005, in CSE Department.
3. Attended four day workshop on “Recent advances in Chemical and Bio Process Engineering” in Chemical Engg. Department in Vignan’s Engineering College, November 5 -8<sup>th</sup>, 2006
4. Attended One-day “Entrepreneurship Awareness camp” organized by Entrepreneurship Development Cell, JNTU Hyderabad in association with TRR Institutions Hyderabad held on Feb, 25<sup>th</sup> 2010.
5. Attended One-day workshop on “Digital Logic Design”, in RRS College of Engineering & Technology in 17<sup>th</sup>, July 2010, in the Department of CSE.
6. Attend One-day workshop on “Quality Education” in TRRCE on 27<sup>th</sup> August 2010.
7. Attended a Three – Day national workshop on “Advances in Software Testing” Organized by Department of Computer Science & Engineering, GITAM Institute of Technology, GITAM University, Visakhapatnam, during September 27 -29<sup>th</sup>, 2010.
8. Attended a Three – Day national workshop on “National Convention for Academics and Research” Organized by Free Software Movement of India and hosted by Swecha at Mahindra Satyam Technology Centre, Hyderabad on December 16-18<sup>th</sup>, 2010.

### **CONFERENCES CONDUCTED**

- 1) Worked as a member of the working committee for an “*International conference CERATEC 2007*” which is held at AUCE, Visakhapatnam, in Jan 8-10, 2007
- 2) Worked as a member of the working committee for an Int. conference “*95<sup>th</sup> Indian Science Congress 2008*” which is held at Andhra University, Visakhapatnam, in January, 3- 7<sup>th</sup>, 2008.

- 3) Worked as an organizing secretary for a work shop “Recent Advances in software Engineering RAISE 2008” which is held at Department of CSE, RRS College of Engineering, Hyderabad, in November 21-22, 2008.
- 4) Worked as an Organizing Committee member for “Entrepreneur Awareness Camp” on 5<sup>th</sup> June 2010 at TRR College of Engineering, Hyderabad.
- 5) Worked as an Organizing Committee member for “TRR academic Staff Training Center (TRRASTC) inauguration” on 27<sup>th</sup> August 2010 at TRRCE, Hyderabad.

### **Memberships in Professional Bodies**

1. *Life Member ISTE (LM 47889)*
2. *Life Member IChE*
3. *Member CSI*

### **M. Tech Projects Guided: 10**

- [1]. *Ms. G. Lalitha Siva Jyothi* “Filter automata and their realizations” at TRR College of Engineering/JNTUH, October, 2010.
- [2]. *Mr. K. Srinivas* “Energy efficient scheme for wireless sensor networks using multiple sinks” at TRR College of Engineering/JNTUH, October, 2010.
- [3]. *Mr. Ch.V.K.N.S.N. Moorhy* “A dynamic cluster based key management protocol for wireless sensor networks” at TRR College of Engineering/JNTUH, October, 2010.
- [4]. *Ms. M. Mamatha Lakshmi* “Cellular automata based signal and image processing” at TRR College of Engineering/JNTUH, October, 2010.
- [5]. *Mrs. P. Mamatha* “Cooperative Caching in Wireless P2P Networks: Design, Implementation and Evaluation” at TRR College of Engineering/JNTUH, October, 2011.
- [6]. *Mr. K. Ashok Reddy* “Deriving Concept Based User Profile From Search Engine Logs” at TRR College of Engineering/JNTUH, October, 2011.
- [7]. *Mrs. V. Sri Lakshmi* “Mining Frequent Patterns Using Candidate Generation” at TRR College of Engineering/JNTUH, October, 2011.
- [8]. *Mrs. P. Durga Spandana* “Pacifying Selective Forwarding Attacks with a Channel Aware Approach in WMNs” at TRR College of Engineering/JNTUH, October, 2011.
- [9]. *Mr. G. Madhu* “SAT-Solving Approaches to Context Aware Enterprise Network Security Management” at TRR College of Engineering/JNTUH, October, 2011.
- [10]. *Mrs. K. Nishanth Chakravarthy* “Clustering of Uncertain Data Using Voronoi Diagrams and R-Tree Index” at TRR College of Engineering/JNTUH, October, 2011.



**PERSONAL PROFILE:**

Date of birth : 03 – 06 – 1979

Father Name : Vaka Rama Koteswara Rao

*Address : Dr. Vaka Murali Mohan*  
*# A - 905, 2nd Floor, Phase: 02,*  
*Allwyn Colony, Kukatpally,*  
*Hyderabad – 72, A. P, INDIA*  
**☎ : 91-9966023477**  
**✉ : [murali\\_vaka@yahoo.com](mailto:murali_vaka@yahoo.com)**

***Declaration***

I hereby declare that the above information regarding my candidature is true to the best of my knowledge.

Place : Hyderabad

**(DR. VAKA MURALI MOHAN)**

Date :