

Rekha Bhowmik  
Visiting Assistant Professor of Computer Science  
Department of Computer Science  
College of Arts and Sciences

### **Degrees Earned**

Ph.D. in Computer Science, Indian Institute of Technology, India

M.S in Civil Engineering (Building Science and Technology), Indian Institute of Technology, India  
Minor-Computer Science, College of Engineering, India, 1997)

B.S. in Engineering (Major-Civil, Minor-Architecture, Indian Institute of Technology, India)

### **Professional Licensure and Certifications**

### **Peer-Review Publications and Artistic Performances/Exhibitions**

#### **Articles**

Bhowmik, R., 2008, Building Design Optimization Using Sequential Linear Programming, *Journal of Computers*, Vol. 3, Issue 2.

Bhowmik, R., 2007 "An approach to the Facility Layout Design Optimization" paper submitted to " *INFORMS Journal of Computing* ", October 2007(in progress).

Bhowmik, R.(with Ramakrishnan, C.V. and Krishnamoorthy S), 1998, "Comparison of Branch and Bound and Iterative Heuristic Algorithms for floor allocation of activity clusters in multi storey buildings," *Engineering Optimization*, Vol. 13, pp. 317-330.

Bhowmik, R. (with Jain, A. K.), 1992, "Computer-aided Layout for Multi storey Buildings using Cluster Analysis and Iterative Algorithm, *Engineering Optimization*, Vol. 11, pp. 234-246.

#### **Books**

Bhowmik, R., Interactive Study Guide for *Systems Analysis and Design*, Kendall/Kendall, 7e, Prentice Hall, 2007.

#### **Chapters**

#### **Proceedings**

Bhowmik, R., 2008, 'Keyword Extraction from Abstracts and Titles', paper accepted, *IEEE SoutheastCon 2008*, 5-8 April, Huntsville, AL.

Bhowmik, R., 2008, 'An Approach to the Spatial Design Layout Optimization', paper accepted, *2<sup>nd</sup> International Conference on Information Systems, Technology and Management(ICISTM)*, 6-8, March, Dubai.

Bhowmik, R.(with Gudivada, V.N., and Nandigam, J.), 2007, 'Eclipse as an Integrated Framework for Teaching Software Engineering', *2007 International Conference on Frontiers in Education: Computer Science and Computer Engineering*, June 25-28, Las Vegas, NV.

Bhowmik, R., 2007, 'Building Design Optimization using Sequential Linear Programming', *IEEE SoutheastCon 2007*, March 22-25, Richmond, VA.

Bhowmik, R., 2006, 'OQL-based Data Mining Query Language', *19th International Conference on Computer Applications in Industry and Engineering(CAINE'06)*, November 13-15, Las Vegas, NV.

Bhowmik, R., 2006, 'Clustering Performance of very Large Databases', *ISCA 21<sup>st</sup> International Conference on Computers and their Applications*, March 23-25, Seattle, Washington.

Bhowmik, R., 2005, 'Association Rules Mining Algorithms', *20<sup>th</sup> Intl Conference on Computers & their applications*, March 16-18, New Orleans.

Bhowmik, R., 2004, 'Allocating Clusters using Hierarchical Clustering Technique', *Hawaii International Conference on Computer Sciences*, Jan 15 - 18, Hawaii.

Bhowmik, R., 2003, 'Applying Data Mining Techniques to Risk Analysis', *16<sup>th</sup> International Conference on Computer Applications in Industry and Engineering*, November 11-13, LV.

Bhowmik, R.(with Ramapudi, S.), 2003, 'Managing Reference tables using ORACLE Dynamic SQL and Metadata", *International Conference on Information Technology: Research and Education (ITRE- 2003)*, August 10-13, Newark, NJ.

Bhowmik, R.(with Kaushik, S.), 2003, 'Implementing Knowledge Repository Retriever in Knowledge Management', *12<sup>th</sup> International Conference on Intelligent and Adaptive Systems and Software Engineering (IASSE-2003)*, July 9-1, San Francisco, CA.

Bhowmik, R., 2003, 'Clustering Algorithms for Spatial Data Mining, *International Conference on Computer Science, Software Engineering, Information Technology, e-Business, and Applications (CSITeA '03)*, June 5-7, Rio de Janeiro, Brazil.

Bhowmik, R., 2003, 'Image-Based Rendering with Illumination', *Graphics2003, International Conference on Computer Graphics and Interactive Techniques in Australasia and South East Asia*, 11-14 February.

Bhowmik, R., 1999, 'Efficient Image-Based Rendering', *Workshop on Rendering*, Indian Institute Of Technology, December 18-20, Delhi, India.

Bhowmik, R., 1992, 'Application of Expert System to Planning of Buildings," *Second International Conference, Data & Knowledge Engineering, Theory & Applications (ICSC92)*, 13-16 December, Hongkong.

## **Artistic Performances**

## **Artistic Exhibitions**

## **Research Monographs and Technical Reports**

## **Funded External Grants**

## **Peer-Review Presentations/Posters**

## **Work or Professional Experiences**

2007 – Present, Associate Professor of Narrative Text, Sam Houston State University

2007- Present, Visiting Assistant Professor of Computer Science, Sam Houston State University,

2005-2007, Assistant Professor of Computer Science, Winston Salem State University, NC

2004-2005, Assistant Professor of Computer Science , California Lutheran University, CA

2002-2004, Assistant Professor of Computer Science, Winona State University , MN

2001-2202, Assistant Professor of Computer Science, St Cloud State University, MN

1997-2001, Assistant Professor of Computer Science & Engineering, Institute of Technology, India

## **Honors and Awards**

## **Other Competencies**

2005 IEEE Intl Conference on Information Reuse and Integration, Aug 15-17, Las Vegas.  
Program Committee member for IEEE-IRI-2005.

Reviewed the following Programming books, Prentice Hall Publisher:

1. Visual C++ by Dietel & Deitel
2. Visual C++ .NET by Dietel & Deitel
3. JAVA How to Program 5/e by Dietel & Deitel
5. Visual C# 2005 How to Program, 2/e by Dietel & Deitel
6. Visual Basic 2005 How to Program, 3/e By Deitel