



Dr. V S S Kumar
Principal, University College of Engg. & Professor of Civil Engg.
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EDUCATION

- Post-Doc. Construction Engineering and Management.
University of Wisconsin - Madison, Madison, WI 53706, USA.
- Ph. D. Construction Management, Civil Engineering.
Indian Institute of Technology-Delhi, New Delhi, India, 1993.
- M. Tech. Building Science and Construction Management, Civil Engineering.
Indian Institute of Technology-Delhi, New Delhi, India, 1982.
- B. E. Civil Engineering, **Osmania University, Hyderabad, India, 1980.**



PROFESSIONAL EXPERIENCE

- 2011 - till date **Principal.** University College of Engineering, Osmania University, Hyderabad, **India.**
- 2010 - 2011 **Principal,** Bapatla Engineering College (*Autonomous*), Bapatla
- 2008 - 2010 **Professor & Head,** Department of Civil Engineering. Osmania University, Hyderabad, **India.**
- 2004 - till date **Professor,** Department of Civil Engineering. Osmania University, Hyderabad, **India.**
- 1997 – 2003 **Associate Professor,** Dept. of Civil Engineering, Osmania University, Hyderabad.
- 1996 - 1997 **Post-Doctoral Fellow,** Construction Engineering and Management, University of Wisconsin-Madison, WI 53706, **USA.**
- 1995 - 1996 **Associate Professor,** Department of Construction Management, Arba Minch Institute of Technology, Arba Minch, **Ethiopia.**
- 1991 - 1995 **Associate Professor,** Dept. of Civil Engineering, Osmania University, Hyderabad.
- 1982 - 1991 **Lecturer,** Department of Civil Engg., Osmania University, Hyderabad, **India.**

MEMBERSHIPS

- | | | |
|---|---|------------------------------------|
| American Society of Civil Engineers | - | Member 417824 |
| Institute of Engineers | - | Fellow (F-108353/4) |
| Indian Institute of Technical Education | - | Life Member (LM 31254) |
| Institution of Valuers | - | Fellow F-11791 |
| ASCE Construction Institute | - | Member |
| CIDC-SIAC Arbitration Centre | - | Member of the Panel of Arbitrators |

RESEARCH INTERESTS

Construction Engineering and Management, Fuzzy Set Theory, Neurofuzzy Systems, Network Analysis, Value Engineering, Construction Safety, Robotics, and Working Capital management.

RESEARCH PROJECTS

1. Optimal Deployment of Machinery Using Fuzzy Logic Approach
Sponsored by DST- (1999-2002) - Completed **Rs. 7, 63, 700**
2. Case Based Approach for Accident Prevention Safety Program in Construction Industry
Sponsored by AICTE - (1999-2002) - Completed **Rs. 6, 50, 000**
3. Optimal Deployment of Robots in Construction Industry Using Fuzzy Logic Approach
Sponsored by DST – (2003-2006) – Completed **Rs. 8, 85, 000**
4. Application of Artificial Intelligence Techniques in Civil Engineering
Sponsored by AICTE – (2003-2006) **Rs. 10, 00, 000**

Ph. D's Awarded 3

1. **Dr. Mir Iqbal Faheem**, Professor. Civil Engg., Dept., Deccan Engg. College, OU, Hyderabad

Topic of Research: **Fuzzy System Modeling Approach to Optimize Project Cost and Duration in the Construction Industry.**

2 **Dr. K. Eshwar**, Asst. Engineer, APTRANSCO, Hyderabad.

Topic of Research: **Optimal Deployment of Machinery using Fuzzy Logic Approach in Construction Industry.**

3. **Dr. M. V. Krishna Rao**, Associate Professor, Civil Engineering Department, CBIT, OU.

Topic of Research: **Multi-Criteria Decision Making for Contractor Selection – A Fuzzy Set Theoretic Approach**

RESEARCH PUBLICATIONS – 112

International Journals 4 National Journals 13

International Conferences 58 National Conferences 37

GUEST LECTURES

- Arizona State University, USA.
- Purdue University, USA.
- Southern Illinois University, USA.
- Loughborough University, UK.
- IIT-Madras, Chennai.
- CIDC, NAC, and other National Institutions.

M.E. - Construction Engineering and Management. (Founder Coordinator)

- Initiated the ME program in **Construction Engineering and Management.**
- Secured the **MOU** with **Southern Illinois University**, Edwardsville, USA.

DIRECTOR

- **Artificial Intelligence Centre**, Osmania University, Hyderabad.

TEQIP

- **Founder Nodal Officer** for Technical Education Quality Improvement programme .

ALUMNI ASSOCIATION

- **Founder General Secretary** of Alumni Association, University College of Engineering, Osmania University.

CONFERENCES, TRAINING PROGRAMS & WORKSHOPS ORGANIZED

- National Workshop on **Recent Developments in Formwork and Scaffolding**, August 27-28, 1999.
- Short Term Course on **Neurofuzzy and Expert System Applications in Civil Engineering**, January 3 - 13, 2000, Sponsored by ISTE/AICTE.
- Academic staff training program on **Artificial Intelligence**, November 5 - 9, 2001
- Round table conference on **Technical Education: Challenges in the Context of Globalization**, University College of Engineering, Osmania University, Hyderabad, January 2, 2005.
- Workshop on **Conservation Engineering for Traditional and Historical Buildings (Curriculum Development)**” January 9th and 10th, 2006.
- Work shop on “**Construction Technologies for Durable Low Cost Housing.**” April 22, 2006
- National Conference on **Civil Engineering Systems – 2006**, June 1-3, 2006

CONFERENCES, SEMINARS, WORKSHOPS - PARTICIPATED

- **21**

EXPERT COMMITTEE MEMBER

- AICTE Expert Committee Member for the Assessment of Institutions and NBA.
- University representative on the Faculty Selection Committee.
- Member of the Faculty Selection Committee for various Engineering Colleges.
- Union Public Service Commission and APPSC

Member: Southern Central Regional Committee, Hyderabad, AICTE

RESEARCH WORK

Research Supervisor for the following candidates: Submitted Three (3)

1. **Mr. M. V. Venu Gopal**, Assoc. Prof., Civil Engineering Dept., MVSR Engg. College, OU.

Topic of Research: **Assessment of Working Capital Requirements in Construction Industry using Fuzzy Logic Approach.**

2. **Mr. G. Chandra Sekhar Reddy**

Topic of Research: **Construction Time Cost Trade off Analysis Using Fuzzy Set Approach**

3 **Ms. Mannal Osman**

Topic of Research: **Investigating Heuristic and Meta-Heuristic Algorithms for Solving Uncertain Time-Cost Trade off Problems of Construction Projects Using Fuzzy set Theory**

4 **Ms. MannaMr. D. Prakash**

Topic of Research: **Decision making for selection of an Optimum Crane in the Construction Industry using Artificial Intelligence Approach.**

International Journals

1. **Kumar V. S. S.**, Hanna, A. S., and Adams, T. (2000). "Assessment of Working Capital Requirements by Fuzzy Set Theory." *Journal of Engineering Construction and Architectural Management*, Blackwell Science Ltd., UK, 7 (1), 93-103.
2. **Kumar V. S. S.**, Hanna, A. S., and Natarajan, P. (2003). "Application of Fuzzy Linear Programming in Construction Projects." *Journal of IT in Architecture, Engineering and Construction*, UK, 4(1), 265-274.
3. Eshwar, K., and **Kumar, V.S.S.** (2003). "Optimal Deployment of Construction Equipment using Linear Programming with Fuzzy Coefficients." *Journal of Advances in Engineering Software*, Elsevier Science Ltd., UK, 35, 27-33.
4. Fayeem, M. I., and Kumar, V.S.S. (2010). "A Research Proposal for the Management Delays in Construction projects." *Journal of Industrial Engineering and Technology*, USA, 2(3).

National Journals

5. Murthy, P. V., **Kumar, V. S. S.**, Prasad, V. R., and Ramesh, R. R. (2000). "ISSOC - Intelligent Software for Selection of Optimum Crane." *Journal of Civil Engineering & Construction Review*, New Delhi, India, 13 (7), 34 - 40.
6. Gayatri, B., and **Kumar, V.S.S.** (2001). "Construction Planning Beyond Critical Path." *Journal of Institution of Engineers*, India, 83, 25-31.
7. Asra Areeb, Eshwar, K., and **Kumar, V.S.S.** (2003). "Optimization of Construction Project Duration in an Uncertain Environment." *Journal of Institution of Engineers*, India, 83, 246-251.
8. Kavitha, K., Eshwar, K., and **Kumar, V.S.S.** (2003). "Assessment of Working Capital requirements in Uncertain Conditions." *Journal of Inst. of Engineers*, India, 83, 273-281.
9. **Kumar V.S.S.** (2003). "HRD Analysis using Fuzzy Logic Approach in Construction Industry." *Journal of Construction Management*, NICMAR, India, 45-53.
10. **Kumar, V.S.S.** and Hanna, .A.S. (2004). "A Fuzzy Logic Approach to Selection of Cranes." *Journal of Structural Engineering*, SERC, 30(4), 215-224.
11. Satyanarayana, G., Murthy, V.S.N., Rao, Irfan, M.I., Rao, A.R., and **Kumar, V.S.S.** (2004). "Project Costing: Get Value for Money." *Journal of Construction World*, India, 6(7), 40-44.
12. Rao, S.S., Kumar, K. R., Raju, S.S., and **Kumar, V.S.S.** (2006). "Decision making under conditions of Uncertainty in Construction Industry Using Fuzzy Logic Approach," *Journal of Civil Engineering and Construction Review*, New Delhi , India, April, 48-52.

13. Fayeem, M. I., and **Kumar, V.S.S.** (2006). "Design and Construction of Structures – Value Engineering Approach." *Journal of Construction Materials Purchase*, 11 (3), 69-74.
14. Keerthi, S., Prakash, D., and **Kumar V. S. S.** (2007). "Forecasting Labor Productivity and Budget Performance Using Artificial Neural Networks in Construction Industry," *Journal of Civil Engineering and Construction Review*, New Delhi, 64-72.
15. Rao, D.S.P., **Kumar, V.S.S.**, Kishore, R., and Bhikshma, V. (2007). "Ground penetrating Radar and its applications in Civil Engineering," *Journal of the Indian Concrete Journal*, 35-40.
16. Fayeem, M. I., and **Kumar V.S.S.** (2010). "Quality Assurance and Control in Construction Projects." *Journal of National Institute of Construction Management & Research*, India, 5-14.
17. Hussain, S. A., and **Kumar.** (2004). "An Intelligent Approach for Project Selection in Construction Industry." *Journal of Structural Engineering*, SERC.

International Conferences

18. **Kumar V. S. S.**, and Natarajan P. (1996). "Evaluation of Alternatives in Construction Management Using Fuzzy Set Theory." *Proc. of Eleventh International Conference on Artificial Intelligence in Engineering - 96*, Clearwater, Florida, USA, 91 -92.
19. **Kumar, V. S. S.**, Hanna, A. S., and Rao, A. R. (1997). "Some Aspects of Mathematical Modeling Using Fuzzy Set Theory." *Proc. of International Conference on Software Engineering and its Applications*, Hyderabad, India, 219 - 224.
20. **Kumar, V. S. S.**, Hanna, A. S., and Rao, A. R. (1997). "Develop, Implement, and Assess Prevention/Intervention Safety Program for Steel Erection Contractors Using Case-Based Approach." *Proc. of International Conference on Cognitive Systems*, New Delhi, India, 620 - 626.
21. **Kumar, V. S. S.**, Hanna, A. S., and Rao, A. R. (1997). "Best Practices to Identify Project Cost and Duration Using Neurofuzzy System." *Proc. of International Conference on Cognitive Systems*, New Delhi, India, 750 - 756.
22. **Kumar, V. S. S.**, Subba Rao, V. V., Krishna, M. R., Kumar, S. P., and Uma Devi, D. (1998). "Flyover Scheduling Using Fuzzy Set Theory." *Proc. of International Conference on Cognitive Systems*, New Delhi, India, 277-282.
23. **Kumar, V. S. S.**, Rao, M. V. K., and Rao, A. R. (1999). "Tender Evaluation Using Fuzzy Logic Approach." *Proc. of International Conference on Contract Management in Construction Industry*, Singapore, 183-187.
24. Kumar, V. S. S., Natarajan, P., and Hanna, A. S. (2000). "Application of Fuzzy Linear Programming in Building Engineering." *Proc. of Eighth International Conference on Computing in Civil and Building Engineering*, ASCE, California, USA, 1347-1354.

25. Kumar, V. S. S., Anindita, C., Kavitha, M., and Aruna, B. (1999). "Systematic Approach for Optimization in Construction Industry using Fuzzy Set Theory." *Proc. of International Conference on Cognitive Systems*, New Delhi, India.
26. Kumar, V. S. S., Lavanya, V., Soni, P., Nandita, K., and Priya, N. (1999). "Schedule Optimization using Fuzzy Logic Approach in Construction Industry." *Proc. of International Conference on Cognitive Systems*, New Delhi, India.
27. Venugopal, M., Mohd. Asra Areeb., Kavitha Kulkarni, Gayatri, B., and **Kumar, V. S. S.** (2000). "Working Capital Requirements of a Contractor in the Construction Industry." *Proc. of International Conference on Construction Industry: Challenges for Sustainable Development*, Chandigarh, India, 266-273.
28. **Kumar, V. S. S.**, Chinmayee, N. U., Rani Chandra V., and Pooja Mishra. (2000). "Some Aspects of Safety in Construction Industry using Case Based Approach." *Proc. of International Conference on Construction Industry: Challenges for Sustainable Development*, Chandigarh, India, 433-439.
29. Rao, M.V.K., Venu Gopal, M., and **Kumar V.S.S.** (2000). "Decision Making in construction Industry under Uncertain Environment Using Fuzzy Logic Approach." *Proc. of International Conference on Construction Industry: Challenges for Sustainable Development.*, November 18 -20, 2000, Chandigarh, India, 197-201.
30. Kavitha, K., Rao, A.R.M., Prasad P., and **Kumar, V.S.S.** (2001). "Assessment of Working Capital Requirements in Construction Industry." *Proc. of The 7th Asia Construct Conference*, New Delhi, India.
31. Rao, A.R.M., Eshwar, K., and **Kumar, V.S.S.** (2001). "Total Quality Management in Construction Industry." *Proc. of The 7th Asia Construct Conference*, New Delhi, India.
32. Eshwar, K., Rao, A.S., and **Kumar, V.S.S.** (2001). "Fuzzy Multi-attribute Decision Making Approach for Contractor Prequalification." *Proc. of International Conference on Artificial Intelligence and Technology*, Kota Kinbalu, Malaysia.
33. Dattu Pant and **Kumar V.S.S.** (2002). "Value Engineering in Construction Industry." *Proc. of International Construction Industry Conference and Exhibition*, Hyderabad, India, 75-81.
34. Balaji N., and **Kumar V.S.S.** (2002). "Robots in Construction Industry." *Proc. of International Conference on Construction Industry and Exhibition*, Hyderabad, India, 22-30.
35. Aparna, V.S., Vijaya Lakshmi P., and **Kumar, V.S.S.** (2002). "CBR methodology – Accidents and their Prevention in Construction Industry." *Proc. Of The Third International Conference on Engineering Computational Technology*, Prague, Czech Republic.
36. Eshwar, K., Rao, L.S., and **Kumar, V.S.S.** (2003). "Intelligent Planning for Bridge Construction using Fuzzy Set Theory." *Proc. of International Conference on Innovations in Planning, Design, and Techniques in Bridge Engineering*, Hyderabad, India, 655-667.

37. Reddy, A.R., and **Kumar, V.S.S.** (2003). "Selection of a contractor for Infrastructure Projects." *CIB Symposium on Project Procurement for Infrastructure Construction*, Chennai, India, 111-118.
38. **Kumar, V.S.S.** (2003). "Multicriteria Optimization in Construction Industry using Fuzzy Logic Approach." *International Civil Engineering Conference & Exposition*, ASCE, Nashville, USA.
39. Anjali, D., Vasanthi, G. **Kumar, V.S.S.**, (2003). "Prevention of Accident Related Disasters in Construction Industry." *World Conference on Disaster Management Infrastructure and Control Systems*, Hyderabad, India, 4-5.
40. Shikha Dutta, Sowmya, R., and **Kumar, V.S.S.** (2004). Construction Robotics: Pathway to Implementation." *Proceedings of International Conference on Cognitive Systems ICCS-2004*, New Delhi, India, 575-601.
41. Murthy, V.S.N., Srinivas Rao, B., and **Kumar, V.S.S.** (2004). "Robotic Bridge Painting in Construction Industry." *Proceedings of International Conference on Current Trends in Aqueducts, Road, Rail and Marine Bridges*, Hyderabad, India.
42. Srinivas Rao, B., and **Kumar, V.S.S.** (2004). "Application of Robots for Building Automation." *Proceedings of International Conference on World of Innovations in Structural Engineering*, Hyderabad, India, 27-39.
43. Murthy, V.S.N., Srinivas Rao, B., and **Kumar, V.S.S.** (2004). "Application of Robotics in Building Construction." *Proceedings of International Conference on Advances in Concrete and Construction*, Hyderabad, India, 1019-1031.
44. Kumar, V.S.S. (2004). "Risk Assessment in Construction Industry." *Proc. of International Conference & Exposition on Construction "Construction Opportunities and Strategies for Action with focus on Asia – Pacific, Middle East & African Region"* New Delhi, India.
45. **Kumar, V.S.S.**, and Reddy, G.C.S. (2005). "Fuzzy Logic Approach to Forecast Project Duration in Construction Projects." *Proceedings of Construction Research Congress 2005*, San Diego, California, USA, 687-691.
46. Raju, S.S., and **Kumar, V.S.S.** (2005). "New Technology for Controlling Hazards at Work in Construction Industry." *Proceedings of International Conference on Recent Advances in Concrete and Construction Technology – INCRAC & CT – 2005*, Kattankulathur, Chennai, India.
47. Reddy, G.C.S., Younus Khan, **Kumar, V.S.S.** (2005). "Robotics and Automation in Construction Industry," *Proceedings of 1st International Conference on Construction Engineering and Management*, Seoul, Korea.
48. Aparna, D., Sridhar, D., Rajani, J., Sravani, B., and **Kumar, V.S.S.** (2005). "New Intelligent Approach for Project Management in Construction Industry," *Proceedings of 1st International Conference on Construction Engineering and Management*, Seoul, Korea.

49. Faheem, M.I., and **Kumar, V.S.S.** (2006). "Construction in Challenging Environment using Intelligent Techniques," *Proceedings of Earth & Space 2006*, 10161/4083(188)129, USA.
50. Faheem, M.I., and **Kumar, V.S.S.** (2006). "Time-cost trade off analysis using Intelligent System in Construction Industry," *Proceedings of Joint International Conference on Computing and Decision Making in Civil and Building Engineering*, Montreal, Canada.
51. Reddy, G.C.S., and Kumar, V.S.S. (2006). "Multi-criteria Evaluation Model for Contractor Selection," *Proceedings of 4th International Engineering and Construction Conference*, ASCE, Fullerton, California, USA.
52. Anoosha, Swathi, M., Kumar, **V.S.S.** (2006). "Project Network Analysis in Fuzzy Environment," *Proceedings in the tenth East Asia Pacific Conference on Structural Engineering and Construction (EASEC – 10)*, Bangkok, Thailand, 321-326.
53. Kumar, V.S.S., Eshwar, K., Prakash, D., and Ravi Kumar, K. (2006). "Decision making for Contractor Prequalification using Information technology," *Proceedings of the World Conference on IT in Design and Construction*, INCITE/ITSED 2006, New Delhi, India.
54. **Kumar, V.S.S.**, Faheem, M.I., Eshwar, K., and Reddy, G.C.S. (2007). "Application of Fuzzy Linear Programming for Time-cost trade off analysis," *Proceedings of 5th International Conference on Construction Project Management (ICCPM)/2nd International Conference on Construction Engineering and Management (ICCEM) 2007*, Singapore, 45.
55. **Kumar, V.S.S.**, Faheem, M.I., Eshwar, K., and Reddy, G.C.S. (2007). "Fuzzy Goal Programming for crashing activities in Construction Industry," *Proceedings of 5th International Conference on Construction Project Management (ICCPM)/2nd International Conference on Construction Engineering and Management (ICCEM) 2007*, Singapore, 118.
56. **Kumar, V.S.S.** (2007). "Robots for fast track Construction." *Proceedings of International Conference on Fast Track Construction of Bridges from Important Projects, Hyderabad, India*, 238-245.
57. **Kumar, V.S.S.**, Reddy, G.C.S., Srikanth Reddy, P., and Faheem, M.I. (2007). "Intelligent Approach for Engineering and Construction of Structures in Challenging Environments," *Proceedings of International Conference on Space Exploration 200*, Albuquerque, New Mexico, USA.
58. **Kumar, V.S.S.** (2007). "Structural Optimization Using Fuzzy Linear Programming," *Proceedings of International Conference on 18th Engineering Mechanics Division Conference of the American Society of Civil Engineers*, Blacksburg, Virginia, USA.
59. **Kumar, V.S.S.**, and Faheem, M.I. (2007). "Fuzzy Optimization of Construction Project Network with Multiple Objectives," *Proceedings of International Conference on Structural Engineering and Construction Conference (ISEC-4)*, Melbourne, Australia, 1433-1437.

60. Harika, T.V., Anoosha, B.V., Swathi Mahalakhmi, M., **Kumar, V.S.S.** (2007). “Quantifying Risk in Construction Industry Using Soft Computing Approach for Intelligent Buildings.” *Proceedings of 1st International Conference on Modern Design, Construction and Maintenance of Structures*, Hanoi, Vietnam.
61. Aafaq H., and **Kumar, V.S.S.** (2007). “CBR Methodology for Disaster Mitigation and Management in Construction Industry,” *Proceedings of International Conference on “Natural Hazards and Disaster Management,”* Hyderabad, 479-486.
62. **Kumar, V.S.S.**, and Eshwar K. (2008). “Soft Computing Approach for Structural Optimization,” *Proceedings of International Conference on EM 08*, Minneapolis, USA.
63. **Kumar, V.S.S.**, Reddy, R. R., and Leena, A. Y. (2009). “Value Engineering and its Applications in construction Industry.” *Proceedings of 5th International Structural Engineering and Construction Conference on Challenges, Opportunities and Solutions in Structural Engineering and Construction*, Las Vegas, USA.
64. Reddy, R.R., Rao, R. M. V., and **Kumar, V.S.S.** (2009). “Analysis of Cable Stayed Bridges by Fuzzy Finite Element Modelling.” *Proceedings of 5th International Structural Engineering and Construction Conference on Challenges, Opportunities and Solutions in Structural Engineering and Construction*, Las Vegas, USA.
65. Prakash, D., Rakesh, Ch., and Kumar, V.S.S. (2010). “Innovative Project Planning for the Construction of Urban Structures.” *Proceedings of International Conference on Design & Construction of Urban Transport Structures (Flyovers, ROB, Subways, Under Passes, Metro railway, Monorail, Sky Bus & SkyWalks, etc.,* Hyderabad, India.
66. Kumar, V.S.S., Rakesh, Ch., and Prakash. D. (2010). “Multiple Fuzzy Goal Programming for Network Optimization in Construction Industry.” *Proceedings of on 6th International Engineering and Construction Conference*, Cairo, Egypt.
67. Kumar, V.S.S., Rakesh, Ch., and Prakash. D. (2010). “Alternative Building Technology to Forecast Project Duration in Construction Projects.” *Proceedings of on 6th International Engineering and Construction Conference*, Cairo, Egypt.
68. **Kumar, V.S.S.**, and Rakesh, C. (2011). “Optimal Deployment of Construction Equipment using Linear Programming with Fuzzy Coefficients.” *Proceedings of International Conference on Engineering Mechanics Division 2011*, ASCE, Boston, USA.
69. Sharma, M.K., Prakash, D., Vikram, B., **Kumar, V.S.S.** (2011). “Safety Aspects in Construction Industry: Recent Trends.” *Proceedings of 17th Asia Construct Conference & Exhibition*, CIDC, New Delhi, India.
70. Manal Osman ,Wael Abdulal, Kumar, V. S. S. (2011). “Optimization of Uncertain Construction Time-Cost Trade Off Problem Using Simulated Annealing Algorithm.” *IEEE First World Congress on Information and Communication Technologies (WICT2011)*, 493-498, India.

71. **Kumar, V.S.S.**, and Venugopal, G., and Vikram, B. (2012). "A Fuzzy Multi Criteria Decision Making Approach to Assessment of Peak Working Capital Requirements of a Contractor in Construction Industry." *Proceedings of International Conference on Earth and Science 2012*, Pasadena, USA.
72. Manal Osman, **Kumar, V. S. S.** (2012). "Multiobjective Particle Swarm Optimization for Fuzzy Time-Cost Trade Off Problem." *Proceedings of National Conference on Advance and Challenges in Engineering and Science (NCACES 2012)*, India
73. Manal O., and **Kumar, V.S.S.** (2012). "Simulated Annealing Based Algorithm for Multiobjective Fuzzy Optimization Problem," *Proceedings of second World on Communication Technologies Congress (WICT 2012)*, 614-619, India.
74. **Kumar, V.S.S.** (2013). "Cash Flow forecasting in Construction Industry using Soft Computing Approach" *Proceedings of International Conference on Construction Engineering and Project Management (ICEPM)*, Anaheim, California, USA
75. **Kumar, V.S.S.**, Manal O., and Vikram, B. (2013). "Fuzzy Time-Cost Optimization Problem Using Genetic Algorithm and Particle Swarm," *Proceedings of The Seventh International Structural Engineering and Constructions Conference*, Honolulu, USA.

National Conferences, Seminars and Workshops

76. Sridhar, M., and **Kumar, V. S. S.** (1998). "Some Aspects of Time Stipulations for Building." *Proc. of Role of General Management in Indian Sector*, India, 178-183.
77. Rao, A.R.M., **Kumar, V. S. S.**, and Prasad, A.S. (1998). "Some Management Aspects in the Execution of Public Works." *Proc. of Second National Conference on Construction INFRASTRUCTURE 2000*, New Delhi, India, 579-581.
78. **Kumar, V. S. S.**, and Prasad, P. (1999). "Some Aspects of Cranes in Construction Industry." *Proc. of All India Seminar on Materials and Machines for Const.*, Lucknow, India, 31-37.
79. Aninditha, C., Kavitha, M., Aruna, B., and **Kumar, V. S. S.** (1999). "Fuzzy Logic approach doe Project Duration Scheduling in an Uncertain Environment with Limited Resources." *Proc. of All India Seminar on Materials and Machines for Construction*, Lucknow, India, 29-30.
80. Pelluri, R. V., and **Kumar, V. S. S.** (1999). "Safety of Cranes in Construction Industry." *Proc. of All India Seminar on Materials and Machines for Construction*, Lucknow, India, 23-28.
81. **Kumar, V. S. S.** (2000). "Trends and Best Practices in Reducing, Reusing, and Recycling of Construction and Demolition Waste." *Proc. of Third National Conference on Construction - Globalization Challenges for the Indian Construction Industry*, New Delhi, India.
82. **Kumar, V. S. S.**, Krishna Rao, M.V., and Venisri, N. (2000). "Some Aspects of Risk Assessment in Construction Industry." *Proc. of Third National Conference on Construction*

- *Globalization Challenges for the Indian Construction Industry*, New Delhi, India, 120-125.
83. **Kumar, V.S.S.**, and Rao, A.R.M. (2001). "Some aspects of Institution Interaction with Construction Industry." *Proc. of National Conference on University-Industry-R&D Organizations- Scientific Bodies Interaction and Cooperation: Policy Perspectives*, Hyderabad, India.
 84. Bhaskar, V., Prakash, D., Eshwar, K., and **Kumar, V.S.S.** (2001). "An Effective Safety Program in Construction Industry." *Proc. of National Conference on Disaster Prevention Mitigation and Management*, Hyderabad, India.
 85. **Kumar, V. S. S.**, Eshwar, K., and Rao, A.R.M. (2002). "Risk Management in Construction Industry." *Proc. of Fifth National Conference on Construction – The way Ahead*, New Delhi, India, 43-47.
 86. Praveen, M.V., Prasanna, S., and **Kumar, V. S. S.** (2002). "Cost Control in Construction Projects." *Proc. of Fifth National Conference on Construction – The way Ahead*, Delhi, India, 131-136.
 87. Mir Iqbal Faheem, and **Kumar, V. S. S.** (2002). "Linear Programming Approach for Time Monitoring of CPM Network in Construction Projects." *Proc. of National Conference on Advances in Building Materials, Equipments and Construction Technologies*, Vellore, India, 7-12.
 88. Aparna, V.S., Vijaya Lakshmi, P., and **Kumar, V.S.S.** (2002). "Some Applications of Artificial Neural Networks in Civil Engineering." *Proc. of National Conference on Emerging Trends on Concrete Construction*, Hyderabad, India, 269-273.
 89. Mallikharjun, C., Venu, P.A., and **Kumar, V.S.S.** (2002). "Applications of Artificial Neural Networks in Flexible Pavement Design." *Proc. of National Conference on Emerging Trends on Concrete Construction*, Hyderabad, India, 282-287.
 90. Murthy, V.S.N., Nagaraju, G., and Kumar, V.S.S. (2003). "Application of Information Technology for Selection Cranes in Construction Industry." *Proc. of National Workshop on Innovative Building Construction Machinery – CONSMACH 2003*, Roorkee, India, 121-129.
 91. Satyanarayana, G., Murthy, V. S. R., Rao, B. S., Irfan, M. I., Rao, A. R., **Kumar, V. S. S.** (2003). "Application of Value Engineering in Construction Industry." *Proceedings of 6th National Conference on Construction – Global Challenges in Project Design and Construction Management*, New Delhi, India, 108-118.
 92. Kumar, B. P., Reddy, G.C.S., Nagaraju, G., Reddy, G .C. S., **Kumar, V.S.S.** (2003). "Concept of Safety in Construction Industry." *Proceedings of 6th National Conference on Construction - Global Challenges in Project Design and Construction Management*, New Delhi, India, 119-125.
 93. **Kumar, V.S.S.**, (2004). "Quantification of C & D Waste in Construction Industry."

Proceedings of the National Conference on Materials and their Applications in Civil Engineering (MACE- 2004), Hamirpur, India, 154-157.

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