PUBLICATION LIST (PARTIAL)

BRIAN PRASAD

2. CONFERENCE PAPERS:

1. Balancing of Competitiveness Metrics and Measures for Excellence in Manufacturing, <u>Technical Session #: MED-9P, Session Title: Manufacturing Poster Session</u> , Sponsored by: <u>ASME</u> Manufacturing Engineering Division, (w/Suren Dwivedi), <u>2001 ASME International Mechanical Engineering Congress and Exposition</u>, New York, Nov. 11-16,. 2001.

2. Methodology for Integrating CE Concepts in a Steelwork Construction Project, with C.J. Anumba, A.N. Baldwin, D. Bouchlaghem, B. Prasad, and A.F. Cutting-Decelle, Advances in Concurrent Engineering: CE99, Series Editor: B. Prasad, (with Editors: P.K. Chawdhry, P. Ghodous and V. Vandrope), pp. 479-488, Technomic Publishing Corp., Lancaster, PA, September 1-3, 1999.

3. Life-cycle Measures and Metrics for Gaining Manufacturing Operational Excellence, <u>Proceedings of the 1997 SAE International Automotive Manufacturing Conference and Exhibitions</u>, May 12-15, 1997, Cobo Center, Detroit, MI, USA, SAE Paper 971753, IAM97, SAE, 1997.

4. Seven Enabling Principles of Concurrency and Simultaneity in Concurrent Engineering, Proceedings of the Ist <u>International Conference on Concurrent Engineering in Construction</u>, , Plenary Paper, The Institute of Structural Engineers, London, UK, July 2-4, 1997, pp. 1-12.

5. Towards the use of Knowledge-based Engineering System in a Concurrent Engineering Environment, <u>Proceedings of the Fourth ISPE Concurrent Engineering Research & Applications</u> <u>Conference</u>, Advances in Concurrent Engineering (CE97), Oakland University, Rochester Hills, MI, August 20-22, 1997 (w/ J. Patel, S. Singhal, and A. Vertiz), pp. 379-388 .

6. Concurrent Function Deployment -- An Emerging Alternative to QFD: Conceptual Framework, <u>Proceedings of the Concurrent Engineering Research and Applications Conference, CE'96</u> Conference, Toronto, Ontario, Canada, Edited by M. Sobolewski, M. Fox, Series Editor: B. Prasad, August 26-28, 1996, Lancaster, PA: Technomic Publishing, pp. 105-112.

7. Use of CE as an Integrator in the Product Development/Delivery Process, <u>Proceedings of the 1996 International Mechanical Engineering Congress & Exposition</u>, The Winter Annual Meeting of ASME, IMEC'96, November 17-22, 1996, held at Atlanta, Georgia.

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9. Competitiveness Analysis of Early Product Introduction and Technology Insertion, PED- Vol. 68-1, <u>Manufacturing Science and Engineering, Volume 1</u>, ASME, 1994., pp. 121-132., Symposium on New Product Introduction, Winter Annual Meeting, Chicago, ILL, Nov. 13-18, 1994.

10. A Multi-agent Based Cooperative Framework to Support Concurrent Engineering, <u>Proceedings of the Concurrent Engineering Research & Applications (CERA) '94 Conference</u>, Pittsburgh, PA, pp. 471-480, August 1994. (with G. Bengu and A. Dhar)

11. Strategic Tool Design Using Metal Forming Simulation Techniques, <u>Proceedings of the 9th Int'l Conference on Vehicle Structural Mechanics and Computer Aided Engineering</u>, April 4-6, 1995, SAE, Troy, MI. (with T. Robertson and R. Duggirala)
12. A Knowledge-based Engineering Method to Integrate Metal Forming Process Design and Simulation, <u>Proceedings of the Eighth Annual ASME Engineering Database Symposium</u>, 1994 ASME Computers in Engineering Conference, Minneapolis, Minnesota, Sept. 11-14, 1994. (with T. Robertson and R. Duggirala)
13. A Matrix-based Procedure to Measure the Effectiveness of JIT Implementation, <u>9th International CAD/CAM, Robotics and Factories of the Future Conference (CARS & FOF '93)</u>, New Jersey, August 18-20, 1993, New Jersey. (in Proceeding)
14. CFD: Concurrent Functions Deployment for Building World Class Products Presented at the <u>Towards World Class Manufacturing '93 Conference</u>, International Federation of Information Processing (IFIP) TC5 in cooperation with SME, September 12-16, 1993, Phoenix, Arizona, USA.
15. A Framework to Judiciously Select the Right Concurrent Engineering Tactics, <u>Fourth National Symposium on Concurrent Engineering, CE & CALS '93</u>, Sponsored by Society of Computer Aided Engineering, CERC, June, 1993, Washington, D.C, USA.
16. Total Enterprise Management, <u>8th International Conference on CAD/CAM, Robotics and Factories of the Future (CARS & FOF '93),</u> St. Petersburg Institute of Informatics and Automation, St. Petersburg, Russia, May 17-20, 1993.
17. Explicit First Order Approximation based on Geometrical Programming, Presented at the Work in Progress Session, <u>26th AIAA/ASME/ASCE/AHS SDM Conference,</u> April 15-17, 1985, Orlando, Florida.
18. Generic Modeling and Design Sensitivity - Potential Tools for Automated CAD Process, <u>ASME International Computers in Engineering Conference, Las Vegas,</u> Aug. 12-15, 1984, pp. 556-563. (with S. N. Dwivedi)

2. CONFERENCE PAPERS (continued):

19. On the Stability of A Composite Beam with Initial Stress to Moving Load, Paper presented at the Joint ASME/ASCE Mechanics Conference, Univ. of Colorado, Boulder, June 22-24, 1981.
20. An Optimal Remodeling Technique for Stress Concentration Problems, Paper presented at the Sixth International Conference on Fracture, Dec. 4-10, 1984, New Delhi, India.
21. Optimal Structural Remodeling of Multi-objective Systems, Second International Computer Engineering Conference, August 15-19, 1982, Computer Engineering Division, ASME, San Diego, CA.
22. Some Considerations in Efficient Design of Minimum Weight Structures, Fourth Int. Conference on Vehicle Structural Mechanics, SAE, Nov. 18-20, 1981, Detroit, MI.
23. Organization of PARS -A Structural Resizing System, Presented at the International Computer Technology Conference, ASME Emerging Technology Century 2, Aug. 12-21, 1980, San Francisco, CA. (with R. T. Haftka)
24. A Hybrid Variable Penalty Method for Constrained Optimization, Presented at the Tenth Int. Symposium on Mathematical Programming, Montreal, Canada, Aug. 27-31, 1979.
25. A Variable Penalty Method for Constrained Minimization, Presented at the Second TICOM International Conference on Computational Methods in Nonlinear Mechanics, The University of Texas, Austin, March 26-29, 1979.
26. Structural Optimization based on Cubic Extended Penalty Function, Presented at the 8th U.S. Congress of Applied Mechanics Conference, University. of California, Los Angeles, June 26-30, 1978. (with R. T. Haftka)
27. Programs for Analysis and Resizing of Structures - PARS, Presented at the Symposium on Future Trends in Computerized Structural Analysis and Synthesis, Washington, DC, Oct. 30- Nov. 1, 1978 (with R. T. Haftka)
28. Structural Dynamic Analysis and Fatigue Life Prediction of a Flat Car, 14th Annual Railroad Engineering Conference, R. & D. and Railroading, Univ. of Southern Colorado, Pueblo, Oct. 18-20, 1977. (with V. K. Garg and A. Zarembski)
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30. Dynamic Analysis of A Beam-Column with Varying End-Rigidity, Proc. of the Conference on the Role of Computers in Structural Analysis, Design & Optimization, Indian Institute of Technology, Madras, India., December 11-13, 1972.

3. THESIS/DISSERTATIONS:

31. Automated Design of Structures subject to Stress, Displacement and Temperature Constraints, **Ph.D. Thesis,** Submitted to the Department of Mechanics, Mechanical and Aerospace Engineering, Illinois Institute of Technology, Chicago, Dec. 1977.
32. Response of a Composite Beam to a Moving Load, **Degree of Engineer Thesis**, Submitted to the department of Applied Mechanics and the Committee of Graduate Studies, Stanford University., Stanford, Ca., June 1975.
33. Studies of the Blast and Impact Loading on Beams, **M.S. Thesis**, Submitted to the Department of Mechanical Engineering, Indian Institute of Technology, Kanpur, India, Dec. 1971.

4. JOURNAL/GUEST EDITOR/SPECIAL ISSUES

34. Life-Cycle Design, Special Issue of Artificial Intelligence for Engineering Design, Analysis and Manufacturing, AIEDAM (ISSN: 0890-0604), Cambridge University Press, Volume 14 - Issue 02 - April 2000, Co-edited by WILLIAM J. MARX, JOHN KUNZ, and BIREN PRASAD, pp. 89-89.

35. Computer Integrated Manufacturing Systems; Special Issue of International Journal of Systems Automations: Research & Applications (SARA), Ablex Publishing Corp., New Jersey, USA, Co-edited with Behnam Pourbabai, Volume 2, No. 3, 1992

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37. Language-based Approaches to Design; Special Issue of International Journal of Systems Automations: Research & Applications (SARA), Ablex Publishing Corp., New Jersey, USA, Co-edited with Robert E. Phillips, General Electric, Volume 2, No. 4, 1992

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39. Conflict Management in Concurrent Engineering; <u>Special Issue of International Journal of Concurrent Engineering: Research & Applications (CERA),</u> Academic Press, London, Co-edited by Mark Klein, Boeing Computer Services, Seattle, Wa. Vol. 2, No. 3, 1994.

40. Application of AI techniques in Systems Engineering; <u>Special Issue of International Journal of Concurrent Engineering: Research & Applications</u> (CERA), Academic Press, London, Co-edited by C. Tsatsoulis, Kansas State University, Wichita, KS., Vol. 2, No. 4, 1994.