DUŠAN N. ŠORMAZ

Curriculum Vitae

EDUCATION

December, 1994, University of Southern California, Los Angeles, California
Ph.D. in Industrial and Systems Engineering (GPA 4.0/4.0)
Dissertation title: "Knowledge-based Integrative Process Planning System using Feature Reasoning and Cost-based Optimization", Advisor: Professor Behrokh Khoshnevis

May, 1995, University of Southern California, Los Angeles, California, M.Sc. in Computer Science (GPA 3.72/4.0)

October, 1985, University of Novi Sad, Novi Sad, Yugoslavia, M.Sc. in Industrial Engineering (GPA 9.6/10)
Thesis title: "Development of procedures for the work-in-progress balancing when using GT-cells", Advisor: Dr. Dragutin Zelenovic

October, 1979, University of Novi Sad, Novi Sad, Yugoslavia, B.Sc. in Mechanical Engineering (GPA 9.56/10)

PROFESSIONAL EXPERIENCE

12/2004-3/2005 Cranfield University, Academic Research Visitor (Ohio University sabbatical leave)

2003 – Ohio University, Athens, OH, Associate Professor, Industrial and Manufacturing Systems Engineering
- Taught undergraduate required and elective courses with focus on modeling, simulation and manufacturing
- Taught graduate courses with focus on manufacturing and intelligent systems
- Instructor for off-campus MSc in Engineering Management program
- Performed research in Automated Manufacturing Process Planning, and Cost Modeling and Estimation
- Managed Departmental Computer Lab and CIMLab
- Advised undergraduate and graduate masters and doctoral students

1995 - 2003 Ohio University, Athens, OH, Assistant Professor, Industrial and Manufacturing Systems Engineering
- Taught undergraduate and graduate courses with focus on simulation, manufacturing and intelligent systems, and advised undergraduate and graduate students
- Performed research in Automated Process Planning and Manufacturing Planning Models, and Cost Modeling and Estimation
- Participated in the Teaching Scholar Program with Center for Teaching Excellence
- Managed Departmental Computer Lab and CIMLab

1997 - 1999 Adizes Institute, Branch Office Yugoslavia, Novi Sad, Consultant (on leave from Ohio University)
- Presented seminars on Manufacturing Planning and Management to industry in Yugoslavia
- Consulted several companies in implementing JIT production planning
- Developed Multimedia CD-ROM of Adizes Methodology and Adizes SEE Web presentation

1994 - 1995 University of Southern California, Postdoctoral Research Associate
- Developed a prototype system for process planning using object-oriented data base

1990 - 1994 University of Southern California, Research and Teaching Assistant
- Taught lab sessions in undergraduate and graduate courses in manufacturing
- Teaching Assistant for undergraduate and graduate courses in manufacturing and statistics
- Organized and lead student research teams in the Manufacturing Engineering Seminar Course
- Conducted research on Intelligent Manufacturing and Process Planning Systems
- Applied Object-Oriented Paradigm for design of Computer Aided Process Planning

1987 - 1988 Cranfield Institute of Technology, Cranfield, UK, Visiting Research Fellow
- Studied simulation methodology and the related software (SEE-WHY, WITNESS, CINEMA, SIMAN, PC-Model, GENETIK)

1980 - 1990 University of Novi Sad, Yugoslavia, Teaching and Research Assistant
- Taught lectures and lab sessions in modeling and simulation of manufacturing systems and operation research
- Worked in research projects on the use of simulation in design of computer integrated manufacturing, design of GT based production systems and procedures for work-in-progress reduction
- Was project manager and project engineer in several industrial projects using GT and developing design and control software for companies

1979 - 1980 University of Novi Sad, Yugoslavia, Design Engineer
- Developed design documentation and built a prototype for a device for mass product labeling

Ohio University, IMSE Department, 277 Stocker Center, Athens, OH 45701-2979

Phone: (740) 593-1545, Fax: (740) 593-0778, E-mail: sormaz@ohio.edu, URL: www.ent.ohiou.edu/~sormaz

COURSES TAUGHT

- *Ohio University*

  Undergraduate courses: Industrial Computer Simulation, Product and Process Design, Applications of Mathematical Programming, Introduction to Operations Research, Introduction to Systems Engineering, Inventory and Manufacturing Control II, Engineering Economy
  Graduate only courses: Computer Integrated Manufacturing, Intelligent Engineering Systems, Geometric Modeling in Manufacturing, AI Planning in Manufacturing, Introduction to Quality Control
- *University of Southern California*

  Lab sessions: Facilities Analysis and Design, Computer Aided Manufacturing
- *University of Novi Sad*

  Lectures: Introduction to the Industrial Systems Theory, Operations research
  Lab sessions: Design of Production Systems, Introduction to the Industrial Systems Theory, Operations research

RESEARCH INTERESTS AND RESULTS

- Interested in research in computer integrated manufacturing and the application of information technologies to the factory of the future.
- Interested in integration of CAD/CAM systems and concurrent engineering.
- Interested in application of various artificial intelligence techniques and simulation methodology in manufacturing.
- Participated in development of FIPER Cost Estimation tool, and developed Cost modeling library
- Developed 3I-PP prototype for intelligent process planning.
- Developed a framework for automated process planning and its integration with feature recognition and process scheduling activities.
- Developed algorithms for a feature interaction analysis and machining process selection in hole making and milling for automated process planning.
- Developed and implemented space search-based algorithms for sequencing of operations in process planning.

RESEARCH PROJECTS AND SUPPORT

- NIST (ATP) Federated Intelligent Production Environment, 11/1999-11/2003, (OU $1.1 million, Team $22 Million), funded, joined research team as co-PI in July 2001. (PI: Mike Paridis, GEAE)
- Development and implementation of IMPlanner modules for feature mapping and process selection, Delphi Automotive Systems, January 2003, funded, $12,000.00
- Generation of manufacturing features and alternative process plans, a case study, Delphi Academic Partnership Master Agreement, PI, 2002, funded, $12,000.00
- Development of Distributed System for Collaborative Solving of Large Optimization Problems, Proposal to NSF STTR Phase I, Research PI, (submitted by Paraster, Wei Tan is PI), not funded, 2001. total $100,000.00
- Distributed System for Evaluation of Alternative Manufacturing Plans and Systems, Stocker Endowment Fund, Ohio University, Matching support for NSF proposal, approved but not funded, 2001. $18,063.
- Case-based reasoning for Incremental Process Planning, Stocker Endowment Fund, Ohio University, funded, 2001. $21,095.
- Research Challenge program for NSF Proposal Distributed System for Evaluation of Alternative Manufacturing Plans and Systems, Ohio University, 2001, $6000.00
- Distributed System for Evaluation of Alternative Manufacturing Plans and Systems , Proposal to NSF, February 2001 not funded, $160,633.00
- Distributed & Parallel Optimization for Solving Combinatorial Optimization Problems, PI, Paraster, Inc., funded $14,969.00
- Comparison of Process Sequencing Algorithms in CAPP, Baker Fund, Ohio University, not funded, 2001, $9721.00
- Knowledge-Based Engineering for Intelligent Product Design , co-PI (total four co-Pis), OAI action fund proposal, not funded, $80,000.00
- Development, Calibration and Validation of Design Methods for Complex Engineering Systems Based on Large Data Sets, co-PI (total five co-PIs), IGERT preproposal to NSF, 2000., not funded, $2,687,582.00
- Stocker faculty summer fellowship, Russ College of Engineering and Technology, 2000, $10,000.00

- Visual modeling of intelligent manufacturing planning on the Web, Ohio University 1804 fund, 2000., not funded, $23,319.00
- Feature interaction modeling and visualization of process planning, Stocker Endowment Fund, Russ College of Engineering and Technology, 2000, funded $24,200.00
- Research challenge program for CAREER: Intelligent Process Planning for Collaborative Manufacturing Integration, Ohio University, 1999/2000. $6,000.00
- CAREER: Intelligent Process Planning for Collaborative Manufacturing Integration, Proposal to NSF, 1999. not funded, $200,000.00
- Intelligent manufacturing planning using case-based reasoning, pilot project on feasibility, OU - IMSE department, 2000
- Stocker faculty summer fellowship, Russ College of Engineering and Technology, 1996. $10,000.00
- Stocker new faculty research initiation support, Russ College of Engrg. and Technology, 1995/96., $10,000.00

AWARDS, HONORS AND SCHOLARSHIPS

- Marvin E. and Ann D. White Teaching Award, Ohio University, IMSE Department, 2005.
- Marvin E. and Ann D. White Research Award, Ohio University, IMSE Department, 2004.
- Marvin E. and Ann D. White Research Award, Ohio University, IMSE Department, 2003.
- Marvin E. and Ann D. White Teaching Award, Ohio University, IMSE Department, 2001.
- Graduate Assistantship at University of Southern California, 1990-1994
- Fulbright Program Grant for Ph.D. studies in USA, 1990/91.
- Province Vojvodina Research Scholarship for study in UK, 1987/88
- Province Vojvodina Scholarship for graduate students, 1980-1983
- University of Novi Sad Scholarship for the best students, 1976-1979
- University of Novi Sad Award for the best student in the class, 1975, 1976, 1977, 1978, 1979

PROFESSIONAL NETWORK

- Senior member of The Society of Manufacturing Engineers
- Senior member of The Institute of Industrial Engineers
- Member of the IEEE
- Member of the ASEE
- Member of ΑΠΜ (Alpha Pi Mu) - Industrial Engineering Honor Society

LANGUAGES

Fluent in English and Serbian, substantial knowledge of Russian and German.

PUBLICATIONS

Books (in Serbian):

I. Cosic, D. Sormaz, D. Seslija, *"Introduction to the Industrial Systems Theory"* (Student's manual), University of Novi Sad, School of Engineering, Novi Sad, 1989.

D. Zelenovic, I. Cosic, N. Radakovic, D. Sormaz, R. Maksimovic, *"The Contribution to the Simplification of Material Flows in Metalworking Industry"*, University of Novi Sad, School of Engineering, Novi Sad, 1986.

D. Zelenovic, I. Cosic, D. Sormaz, Z. Sisarica, *"APOPS-08 The Automated Procedure for Design of Production Systems"* (User's manual), University of Novi Sad, School of Engineering, Novi Sad, 1986.

Journals:

1. D. N. Sormaz, S. N. Rajaraman, Space Search Algorithm for Manufacturing Cell Formation with Alternative Process Plans, *International Journal of Production Research*, 2005. (submitted)
2. D. N. Sormaz, D. V. Pisipati, P. A. Borse ,Virtual Manufacturing of Milling Operations with Multiple Tool Paths, *International Journal of Computer Applications in Technology*, 2005. (accepted)
3. D. N. Sormaz, J. Arumugam, S. Rajaraman, Integrative Process Plan Model and Representation for Intelligent Distributed Manufacturing Planning, *International Journal of Production Research*, Vol. 42, No. 17, p. 3397 - 3417, 2004.
4. D. N. Sormaz, J. Arumugam , Algorithm for Feature Interaction Analysis in Design and Manufacturing Process Planning, submitted to *Computers and Industrial Engineering, An International Journal*, 2003.

5. D. N. Sormaz, S. G. Jain, P. A. Borse, Integration of Knowledge-Based Process Selection and Process Visualization in Distributed CAPP, submitted to *Computers and Industrial Engineering, An International Journal*, 2003.
6. D. Sormaz, B. Khoshnevis, "Generation of Alternative Process Plans in the Integrated Manufacturing System", *Journal of Intelligent Manufacturing*, Vol 14, No. 6., pp . 509-526 2003.
7. D. Koonce, R. Judd, D. Sormaz, D. T. Masel, "A Hierarchical Cost Estimation Tool", *Computers in Industry*, 50 (2003) 293-302.
8. D. Sormaz, B. Khoshnevis "Modeling of Manufacturing Feature Interactions for Automated Process Planning ", *Journal of Manufacturing Systems*, Vol. 19, No.1, pp.28-45, 2000.
9. B. Khoshnevis, D. Sormaz, J. Park "An Integrated Process Planning System using Feature Reasoning and Space Search-Based Optimization", *IIE Transactions*, Vol. 31, No. 7, p. 597-616, June 1999.
10. D. N. Sormaz, B. Khoshnevis, "Process Planning Knowledge Representation using an Object-oriented Data Model", *International Journal of Computer Integrated Manufacturing*, Vol. 10, No. 1-4, p. 92-104, 1997.
11. D. Sormaz, B. Khoshnevis, "Process Sequencing and Process Clustering in Process Planning Using State Space Search", *Journal of Intelligent Manufacturing*, Vol. 7, No. 3, pp. 189-200, 1996.
12. B. Khoshnevis, J. Park, D. Sormaz, "A Cost Based System for Concurrent Part and Process Design", *The Engineering Economist*, Vol. 40, No. 1, pp. 101-124, Fall 1994.
13. D. Zelenovic, D. Sormaz, "The Methodology for Design of Effective Computer-Integrated Manufacturing Systems", *Robotics & Computer Integrated Manufacturing*, Vol. 7, No. 3/4 pp. 279-90, 1990.
14. D. Zelenovic, I. Cosic, D. Sormaz, Z. Sisarica, "An approach to the design of more effective production systems", *International Journal of Production Research*, Vol. 25, No. 1, pp.3-15, 1987.

Book Chapters:

D. Sormaz, "GT & CAPP: Toward the Integration of Variant and Generative Approaches" in N. Suresh, J. M. Kay, *"Group Technology & Cellular Manufacturing, A State-of-The-Art Synthesis of Research & Practice"*, Kluwer, 1998.

Proceedings editor:

Dusan N. Sormaz, Gursel A. Suer, (editors), *Proceedings of Group Technology/Cellular Manufacturing World Symposium 2003*, IMSE Department, Ohio University, 2003.

Journals editor:

Dusan N. Sormaz, Gursel A. Suer, (guest editors), *International Journal of Production Research*, Special issue with papers from Group Technology/Cellular Manufacturing World Symposium 2003, 2005.

Conferences:

Year 2005:

1. Dusan Sormaz, Pravin Khurana, Ajit Wadatkar, Rule-based Process Selection of Hole Making Operations for Integrated Process Planning, DETC2005-85082, ASME International DETC Conferences, 25th Computers and Information in Engineering Conference (CIE), Long Beach, California, USA, September 24-28, 2005
2. Dusan Sormaz, Jaikumar Arumugam, Generation of Alternative Feature Representations and Feature Precedence Relations for Feature-based Process Planning, DETC2005-85248, ASME International DETC Conferences, 25th Computers and Information in Engineering Conference (CIE), Long Beach, California, USA, September 24-28, 2005
3. Dusan N. Sormaz, David. A. Koonce, Robert. P. Judd, Manufacturing Knowledge Capture for FIPER Cost Estimation Tool, CE2005: The 12th ISPE International Conference on Concurrent Engineering: Research and Applications Next Generation Concurrent Engineering,CE3: Smart and Concurrent Integration of Product Data, Services, and Control Strategies - Ft. Worth/Dallas, USA, 25 - 29 July, 2005
4. Dusan N. Sormaz, Sridhar Thiruppalli, Space Search Algorithm for Incremental Operation Sequencing in Computer Aided Process Planning, 35th International Conference on Computers and Industrial Engineering, Istanbul, Turkey, June 19-22, 2005.
5. Dusan N. Sormaz, Chandrasekhar V. Ganduri, Framework For Knowledge Based Algorithms, In Manufacturing Scheduling, 35th International Conference on Computers and Industrial Engineering, Istanbul, Turkey, June 19-22, 2005
6. Dusan N. Sormaz, Integrative Modeling and Planning of Design and Manufacturing for Mass Customization Product Development, Proceedings of 5th International Workshop on Advanced Manufacturing Technologies, London, ON, May 16-18, 2005, p. 63-70, invited presentation

Year 2004:

7. Dusan N. Sormaz, Jaikumar Arumugam, Narender Neerukonda, XML-based Product and Process Data Representation for Distributed Process Planning, *The 1st International Conference on Electrical/Electromechanical Computer Aided Design and Engineering*, Durham, UK, 15-16 November 2004.
8. Dusan N. Sormaz, Narender Neerukonda, Vikesh Jain, Distributed Integration of Knowledge based Process Planning with CAM Software, *ASME 24th Annual Computers & Information in Engineering Conference*, Salt Lake City, Sept 28-Oct 2, 2004.
9. Dusan N. Sormaz, Deepak V. Pisipati, Virtual Manufacturing of Pockets using End Milling with Multiple Tool Paths, in L. Wang, J. Xi, W. G. Sullivan, M. Ahmad, *Proceedings if 14th Int. Conf. on Flexible Automation and Intelligent Manufacturing FAIM 2004*, p. 1073-1080, Toronto, Canada, July 12-14, 2004.
10. Dusan Sormaz, Pravin Khurana, Jaikumar Arumugam, Ajit Wadatkar, Integration of Feature Mapping and Knowledge-based Process Planning – A Case Study, in L. Wang, J. Xi, W. G. Sullivan, M. Ahmad, *Proceedings if 14th Int. Conf. on Flexible Automation and Intelligent Manufacturing FAIM 2004*, p. 1073-1080, Toronto, Canada, July 12-14, 2004.
11. Dusan N. Sormaz, Jaikumar Arumugam, Manufacturing Feature Mapping And Precedence Relation Generation For Automated Feature-Based Process Planning, *Transactions of the North American Research Institution of SME*, NAMRC 2004, Vol 32, p 47-54, Charlotte, NC, June 1-4, 2004.
12. David. A. Koonce, Robert. P. Judd, Dusan N. Sormaz, Dale T. Masel, Cost Estimation Methodology using Hybrid Hierarchical Approach, *Proceedings of 13th Industrial Engineering Research Conference IERC 2004 – CD ROM*, Houston, TX, May 15-19, 2004.
13. Dusan N. Sormaz, R. P. Judd, D. A. Koonce, Arun Nambiar , Development of Cost Library for Manufacturing Processes in Cost Estimation Tool, *Proceedings of 13th Industrial Engineering Research Conference IERC 2004 – CD ROM*, Houston, TX, May 15-19, 2004.
14. Dusan N. Sormaz, Harihara Sharma, Comparison of Algorithms for Scheduling Optimization with Alternative Process Plans, *Proceedings of 13th Industrial Engineering Research Conference IERC 2004 – CD ROM*, Houston, TX, May 15-19, 2004.

Year 2003:

15. Dusan Sormaz, Jaikumar Arumugam, Srinivas Rajaraman, Process Plan Model And Representation For Intelligent Information Integration In Manufacturing, 17th International Conference on Production Research 03, Virginia Tech, August 4-7, 2003.
16. Srinivas N. Rajaraman, Dusan N. Sormaz, Efficiency of Space Search Algorithms for Cell Formation with Alternative Process Plans, *Proceedings of Group Technology/Cellular Manufacturing - World Symposium - Year 2003* (D. N. Sormaz, G. Suer, eds.), p. 59-64, Columbus, OH, July 28-31, 2003.
17. Dusan N. Sormaz, Srinivas N. Rajaraman, Interactive Tool for Modeling and Visualization of Cell Formation Algorithms, *Proceedings of Group Technology/Cellular Manufacturing - World Symposium - Year 2003* (D. N. Sormaz, G. Suer, eds.), p. 71-76, Columbus, OH, July 28-31, 2003.
18. Dusan N. Sormaz, Srinivas N. Rajaraman, Space Search Algorithm for Manufacturing Cells with Alternative Process Plans, *Proceedings of 12th Industrial Engineering Research Conference IERC 2003, CD-ROM,*, Portland, OR, May 18-20, 2003.
19. Dusan N. Sormaz, Application of Space Search Tools in Intelligent Manufacturing Planning, *Proceedings of 12th Industrial Engineering Research Conference IERC 2003, CD-ROM*, Portland, OR, May 18-20, 2003.

Year 2002:

20. Dusan N. Sormaz, Srinivas N. Rajaraman, Tool for Visualization of Cellular Manufacturing Algorithms, *Proceedings CD-ROM International Conference on Production Research, ICPR Americas '02*, Saint Louis, November 14-15, 2002.
21. Dusan N. Sormaz, Prashant Borse, Procedural Visualization of Manufacturing Processes in Distributed Environment, *22nd Computers and Information in Engineering Conference*, Montreal, September 30 – October 2, 2002.
22. V. Sankarasubramanian, S. Devarachetty, J. S. Gunasekera, D.N Sormaz, B. V. Mehta, Rule-Based Expert System For Selection Of Manufacturing Processes, *The 6th International Conference on Engineering Design & Automation*, Maui, Hawaii, August 2002.
23. Dusan N. Sormaz, Sridharan Thirupalli, Prashant Borse, Jaikumar Arumugam, Sachin Jain, Modeling and Optimization of Process Plans On Internet, in W. G. Sullivan, M. Ahmad, D. Fichtner, W. Sauer, G. Weigert, T. Zerna, (eds.) *Proceedings of 12th International Conference on Flexible Automation and Intelligent Manufacturing*, p. 1135-1144, Dresden, Germany, July 15-17, 2002.
24. Dusan N. Sormaz, Prashant A. Borse, Generation of Dynamic Geometry for Procedural Visualization of Manufacturing Processes, in W. G. Sullivan, M. Ahmad, D. Fichtner, W. Sauer, G. Weigert, T. Zerna, (eds.) *Proceedings of 12th*

International Conference on Flexible Automation and Intelligent Manufacturing, p. 381-392, Dresden, Germany, July 15-17, 2002.

25. Dusan N. Sormaz, Sachin Jain, Prashant A. Borse, Integration of Knowledge-based Process Selection and Process Visualization in Distributed CAPP, in C. Papadopoulos, E. Triantaphyllou, (eds.) *Proceedings of 30th International Conference on Computers & Industrial Engineering Conference*, Vol.2, p. 833-838, Tinos, Greece, June 28-July2, 2002.
26. Dusan Sormaz, Jaikumar Arumugam, Algorithm for Feature Interaction Analysis in Design and Manufacturing Process Planning, in C. Papadopoulos, E. Triantaphyllou, (eds.) *Proceedings of 30th International Conference on Computers & Industrial Engineering Conference*, Vol.2, p. 827-832, Tinos, Greece, June 28-July 2, 2002.
27. Dusan N. Sormaz, Sridharan Thiruppalli, Evaluation of Manufacturing Feature Precedence Constraints using Petri Nets, *Proceedings of 11. Industrial Engineering Research Conference*, Orlando, FL, May, 19-21, 2002.

Year 2001:

28. D.N. Sormaz, P. A. Borse, Visualization of Manufacturing Processes on Internet, *Proceedings of ASME Design for Manufacturing Conference*, Pittsburgh, PA, Sep 9-13, 2001.
29. D. N. Sormaz, S. Thirupalli, P. Borse, J. Arumugam, S. Jain, Distributed System for Modeling and Visualization of Process Plans, *5th International Conference on Engineering Design and Automation*, Las Vegas, August 5- 8, 2001.
30. D.N. Sormaz, S. Thiruppalli, Modeling of Machining Features and Process Plans using Petrinets, *Proceedings of 10th Industrial Engineering Research Conference*, Dallas, TX, May 20-23, 2001.
31. D. N. Sormaz, S. Thiruppalli, Relationships between feature precedence complexity and number of alternative processing sequences, *Proceedings of 10th Industrial Engineering Research Conference*, Dallas, TX, May 20-23, 2001.

Years 1996-2000:

32. D. Sormaz, Incremental Design Representation using Manufacturing Features, *Proceedings of 4th International Conference on Engineering Design and Automation*, Orlando, Florida, July 30 - August 2, 2000.
33. D. Sormaz, Intelligent process planning system for manufacturing integration, *Proceedings of 2000 Japan-USA Symposium on Flexible Automation, International Conference on Manufacturing Systems: Innovations for the 21st Century*, Ann Arbor, Michigan, USA, July 23-26, 2000.
34. D. Sormaz, Simultaneous Process Planning and Manufacturing Cell Design, *Proceedings of Group Technology/Cellular Manufacturing World Symposium -Year 2000*, San Juan, Puerto Rico, March 27-29, 2000.
35. D. Sormaz, B. Khoshnevis, "Intelligent Manufacturing Based On Generation of Alternative Process Plans", J. Ashayeri, W. G. Sullivan, M. M. Ahmad, (eds.), *Flexible Automation and Intelligent Manufacturing, Proceedings of FAIM'99*, p. 291-302, Tilburg, Netherlands, June 23-25, 1999.
36. D. Sormaz, "Modeling of Manufacturing Activities for Intelligent Information Integration", J. Ashayeri, W. G. Sullivan, M. M. Ahmad, (eds.), *Flexible Automation and Intelligent Manufacturing, Proceedings of FAIM'99*, p. 609-620, Tilburg, Netherlands, June 23-25, 1999.
37. J-H. Han, D. Sormaz, D. Koonce, C. Parks, "Formation of Machine and Part Cells With Consideration of Alternative Process Plans" *Engineering Design and Automation Conference, EDA'98*, Maui, HI, August 9-12, 1998.
38. D. Sormaz, B. Khoshnevis, "Intelligent Process Planning Implemented as an Integrated Module of CIM", *ASME Annual Research Conference*, Sacramento, September 1997.
39. D. Sormaz, B. Khoshnevis, W. Tan "Machine and Tool Constraint Specification for Integrated Process Planning System". 6th *Industrial Engineering Research Conference*, Miami Beach, FL, May 1997.
40. D. Sormaz, "The Issues in Incremental Process Planning", *Proceedings of AAAI Artificial Intelligence and Manufacturing Research Planning Workshop*, G. F. Luger (ed.), p. 202-209, Albuquerque, NM, June 24-26, 1996.
41. D. Sormaz, B. Khoshnevis, J-H. Han, "Integration of Automated Process Planning System with CAM Software", *24th North American Manufacturing Research Conference*, p. 235-240, Ann Arbor, MI, May 21-24, 1996.

Years 1985-1995:

42. B. Khoshnevis, D. Sormaz, "The Development of an Integrative Process Planning System within Intelligent Manufacturing Environment", *Proceedings of The First ECPD Conference on Advanced Robotics and Intelligent Automation*, p. 341-348, Athens, Greece, September 6-8, 1995.
43. D. Sormaz, B. Khoshnevis, "Knowledge Representation For Automated Process Planning", *Proceedings of IEEE International Symposium on Assembly and Task Planning*, p. 34-39, Pittsburgh, PA, August 10-11, 1995.
44. D. Sormaz, B. Khoshnevis, "State Space Search Algorithm for Process Sequencing in Process Planning", *Proceedings of 4th Industrial Engineering Research Conference*, B. W. Schmeiser and R. Uzsoy (eds.), p. 836-844, Nashville, TN, May 24-25, 1995.

45. B. Khoshnevis, D. Sormaz, A. Requicha, G. Bekey, "A Computer Integrated Manufacturing Research and Development System", *Proceedings of 5th International Symposium on Robotics and Manufacturing*, M. Jamshidi, C. Nguyen, R. Lumia, J Yuh (eds.), p. 555-560, Maui, Hawaii, August 14-18, 1994.
46. D. Sormaz, D. Zelenovic, "Knowledge-based simulation of GT-based advanced manufacturing systems", Proc. Xth Int'l Conference on Production Research, Nottingham, August 14-17, 1989.
47. D. Sormaz, D. Zelenovic, J. L. Burbidge, S. Stankovski, "The development of expert system for design of advanced manufacturing systems", Proc. Xth Int'l Conference on Production Research, Nottingham, August 14-17, 1989.
48. D. Sormaz, S. Stankovski, "Knowledge-based simulation - A benefit for flexible manufacturing systems designer", Proc. European Simulation Multiconference, ESM `89, Rome, June 7-9, 1989.
49. D. Zelenovic, D. Sormaz, "Contribution to the development of the general model of balancing of production processes", Proc. of IX Int'l Conference on Production Research, A. Mital (Ed.), p. 2131-2138, Cincinnati, August17-20, 1987.
50. D. Sormaz, D. Zelenovic, "An approach to defining of orders sequencing in a case of flexible production structure", Proc. of IX Int'l Conference on Production Research, A. Mital (Ed.), p. 2506-2513, Cincinnati, August 17-20, 1987.
51. D. Zelenovic, I. Cosic, D. Sormaz, Z. Sisarica, "An approach to design of production systems of higher effectivity level", in "Toward the Factory of the Future", Proc. of VIII ICPR, H.J.Bullinger and H.J.Warnecke (Eds.), p. 699-706, Stuttgart, August 20-22, 1985.

Also published 35 papers in national journals and conferences in Serbian language.

Technical reports:

1. Dusan N. Sormaz, Ajit Wadatkar, Process Planning Module for Process Selection of Hole Making Operations, Report submitted to Delphi Automotive Systems, Ohio University, IMSE Department, Athens, OH, February 2004.
2. Dr. Robert Judd, Dr. David Koonce, Dr. Dusan Sormaz, Dr. Wenle Zhang, Cost Estimator - Version 1.0, User Manual, FIPER Technical Report, OhioUniversity, Athens, OH, December 2003.
3. Dr. Robert Judd, Dr. Dusan Sormaz, Dr. David Koonce, Dr. Wenle Zhang Cost Elements - Version 1.0, User Manual, FIPER Technical Report, OhioUniversity, Athens, OH, December 2003.
4. Dusan Sormaz, Jaikumar Arumugam, Ajit Wadatkar, Generation of Manufacturing Features and Alternative Process Plans, A Case Study, Report submitted to Delphi Automotive Systems, Ohio University, IMSE Department, Athens, OH, March 2003.
5. Dusan Sormaz and Prashant Borse, Visualization of Manufacturing Processes on the Internet, Paper #00-1 Ohio University, IMSE Department, Athens, OH, Sept. 2000
6. B. Khoshnevis, W. Tan, and D. Sormaz, **"**A process selection rule base for hole-making," Research Report, Factory Automation Systems Division, National Institute of Standards and Technology, Gaithersburg, MD, 1993.
7. Dusan Sormaz, Wei Tan, Rule-based Machining Process Selection, Technical Report, ISE Department, University of Southern California, Los Angeles, CA, 1992.

PRESENTATIONS

1. Dusan Sormaz, Application of academic research in manufacturing companies, Ohio Advanced Manufacturing Enterprise Partenrship, Research Planning Workshop, Athens, Dec 12, 2004.
2. Dusan N. Sormaz, Sridharan Thiruppalli, Improved Space Search Algorithm for Incremental Generation and Optimization of Process Plan Network, *Industrial Engineering Research Conference IERC 2004*. Houston, TX, May 15-19, 2004, extended abstract
3. R. Judd, D. Koonce, D. Sormaz, W. Zhang, "Cost Estimation – Ohio University", FIPER Workshop, Cincinnati, December 18-19, 2003.
4. R. Judd, D. Koonce, D. Sormaz, W. Zhang, "Cost Estimation – Ohio University", FIPER NIST Annual Review, Cincinnati, December 16-17, 2003.
5. R. Judd, D. Koonce, D. Sormaz, W. Zhang, "Cost Estimation and Data Exchanger FIPER Components", FIPER NIST Annual Review, Cleveland, November 2002.
6. D. Sormaz, "Production Planning, Manufacturing Control and Integrated Manufacturing", 1-day seminar to industry (22 participants), Belgrade, July 10, 2002. (in Serbian)
7. D. Sormaz, "Comparison of Forward and Backward Planning Approaches for Process Sequencing in CAPP", 9th Industrial Engineering Research Conference, Cleveland, OH, May 21-23, 2000.
8. D. Sormaz, "Modern Methods and Techniques for Production and Manufacturing Control", 1-day hands-on seminar to industrial participants, Belgrade, Novi Sad, 1998-99 (in Serbian, 6 seminars with around 90 mid and senior level manufacturing managers)

9. D. Sormaz, “Production Planning, Manufacturing Control and Integrated Manufacturing”, 4-hour seminar to industry (100 participants), Belgrade, February 3, 1998. (in Serbian)
10. D. Sormaz, “Methods and Techniques for Manufacturing Integration”, Annual SITJ (Society of Engineers of Yugoslavia) congress, November 1997. (in Serbian)
11. D. Sormaz., ”Integrated Manufacturing - Another Case for Integration”, Adizes SEE Annual Conference, Sremski Karlovci, September 1997. (in Serbian)

REFERENCES

Dr. Behrokh Khoshnevis, Department of Industrial and Systems Engineering, University of Southern California, University Park, Los Angeles, CA 90089-0193, Phone: (213) 740-4889, E-mail: khoshnev@almaak.usc.edu

Dr. Charles Parks, Department of Industrial and Manufacturing Systems Engineering, Ohio University, 270 Stocker Center, Athens, OH 45701, USA, Phone (614) 593-1550, E-mail: cparks@bobcat.ent.ohiou.edu

Dr. Aristides Requicha, Computer Science Department, University of Southern California, University Park, Los Angeles, CA 90089-0781, Phone: (213) 740-4502, E-mail: requicha@lipari.usc.edu

Dr. George Bekey, Computer Science Department, University of Southern California, University Park, Los Angeles, CA 90089-0781, Phone: (213) 740-4501, E-mail: bekey@pollux.usc.edu

Dr. Ladislav Kun, School of Engineering, University of Novi Sad, Trg Dositeja Obradovica 3, 21000 Novi Sad, Yugoslavia