

Raymond E. Levitt PUBLICATIONS:

Books:

- Bourdon, Clinton C., and Raymond E. Levitt, *Union and Open Shop Construction: Compensation, Work Practices, and Labor Markets*, Lexington Books, D. C. Heath & Co., Lexington, MA, 1980. [1980.B1]
- Levitt, Raymond E., and Nancy M. Samelson, *Construction Safety Management*, McGraw-Hill Book Company, 1987. [1987.B2]
- Dym, Clive, and Levitt, Raymond E., *Knowledge-based Systems in Engineering*, McGraw-Hill Book Co., 1991 [1991.B3]
- Levitt, Raymond E., and Nancy M. Samelson, *Construction Safety Management, 2nd Edition*, John Wiley and Sons, 1993. [1993.B4]

Chapters in Books:

- Levitt, Raymond E., "Organization of Work in Construction," Chapter in *Human Factors /Ergonomics for Civil Engineers and Construction Managers*, Martin Helander, Ed., New York: Wiley Interscience, 1981, pp. 217-277. [1981.CB1]
- Levitt, Raymond E., and Joel B. Leighton, "Employer and Owner Associations," in *Directions in Managing Construction*, Donald S. Barrie, Ed., New York: John Wiley & Sons, 1981, pp. 253-277. [1981.CB2]
- Levitt, Raymond E., and Donald S. Barrie, "Open Shop Movement" in *Directions in Managing Construction*, Donald S. Barrie, Ed., New York: John Wiley & Sons, 1981, pp. 279-299. [1981.CB3]
- Levitt, Raymond E., "Expert Systems in Construction," *Expert Systems for Civil Engineers*, M.L. Maher, Ed., ASCE, New York, 1987, pp. 85-112. [1987.CB4]
- Mishelevich, D.J., M. Katajamaki, T. Karras, H. Lehtimaki, **A. Axworthy**, A. Riitahuhta, and R. E. Levitt., (1991). "An Open-Architecture Approach to Knowledge-based CAD," in Tong, Christopher and Duvvuru Sriram, (Eds.), *Artificial Intelligence in Engineering Design (Volume III)*, Academic Press, pp. 109-157 [1992.CB5]
- Levitt, R.E., G.P. Cohen, J.C. Kunz, C.I. Nass, **T. Christiansen**, and Y. Jin, (1994). "The 'Virtual Design Team': Simulating How Organization Structure and Information Processing Tools Affect Team Performance," in Carley, K.M. and M.J. Prietula, editors, *Computational Organization Theory*, Lawrence Erlbaum Associates, Publishers, Hillsdale, NJ. [1994.CB6]
- Levitt, Raymond E., Yan Jin, **Gaye Oralkan**, John Kunz and **Tore Christiansen**, (2001). "Computational Enterprise Models: Toward Analysis Tools for Designing Organizations," in G.M. Olson, T.W. Malone & J.B. Smith (Eds.), *Coordination Theory and Collaboration Technology*, Lawrence Erlbaum Associates, Mahwah, NJ, pp 623-650. [2001 CB8]
- Taylor, J. E.** and Levitt, R. E. (2004). "Understanding and Managing Systemic Innovation in Project-based Industries." In Slevin, D.P., Cleland, D.I. and Pinto, J.K., Eds. (2004) *Innovations: Project management research 2004*, pp. 83-99. Newtown Square, PA: Project Management Institute. [2004 CB9]
- Chachere, J.**, Kunz, J., and Levitt, R. (2004). "Observation, Theory, and Simulation of Integrated Concurrent Engineering: Grounded Theoretical Factors and Risk Analysis Using Formal Models" in *Project Risk Management Principles and Practices*, Institute of Chartered Financial Analysts of India, Banjara Hills, India.
- Nissen, M.E. and R.E. Levitt, (2006). "Knowledge Management Research through Computational Experimentation," in: D. G. Schwartz (Ed.), *Encyclopedia of Knowledge Management*, pp 51-80, Hershey, PA: Idea Group.

Papers in Refereed Journals:

- Levitt, Raymond E., and Henry W. Parker, "Reducing Construction Accidents - Top Management's Role," *ASCE Journal of the Construction Division*, Vol. 102, No. CO3, September 1976, pp. 465-478. [1976.RJ1]
- Logcher, Robert D., and Raymond E. Levitt, "Organization and Control of Engineering Design Firms," *ASCE Engineering Issues*, Vol. 105, No. EI1, pp. 7-14, January 1979, pp. 7-14 (reprinted in Italian and English in *L'Industria delle Costruzioni*, Rome, Italy: March 1982). [1979.RJ2]
- Levitt, Raymond E., "A Quantitative Method for Analyzing the Allocation of Risks in Underground Construction," *Tunneling Technology*, U.S. National Committee on Tunneling Technology, Washington, D.C., June 1979 (Reprinted in *Proceedings of ASCE Specialty Conference on Risk and Liability*, Vol. II, Scottsdale, AZ: January 1979). [1979.RJ3]
- Levitt, Raymond E., "Union vs. Non-Union Construction in the US," *ASCE Journal of the Construction Division*, Vol. 105, No. CO4, December 1979, pp. 289-303. [1979.RJ4]
- Levitt, Raymond E., and Clinton C. Bourdon, "Cost Impacts of Prevailing Wage Laws in Construction," *ASCE Journal of the Construction Division*, Vol.105, No. CO4, December 1979, pp. 281-288. [1979.RJ5]
- Levitt, Raymond E., David B. Ashley and Robert D. Logcher, "Allocating Risk and Incentive in Construction" *ASCE Journal of the Construction Division*, Vol. 106, No. CO3, September 1980, pp. 297-305. [1980.RJ6]
- Samelson, Nancy M. and Raymond E. Levitt, "Owners' Guidelines for Selecting Safe Contractors," *ASCE Journal of the Construction Division*, Vol. 108, No. CO4, December 1982, pp. 617-623. [1982.RJ7]
- Reve, Torger , and Raymond E. Levitt, "Organization and Governance in Construction," *International Journal of Project Management*, Vol. 2, No. 1, February 1984, pp 17-25. [1984.RJ8]
- Levitt, Raymond E., Robert D. Logcher and **Nabil H. Qaddumi**, "The Impact of Owner- Engineer Risk-Sharing on Design Conservatism," *ASCE Journal of Professional Issues in Engineering*, Vol. 110, No. 4, October 1984, pp. 157-168. [1984.RJ9]
- Levitt, Raymond E., "Superprojects and Superheadaches: Balancing Technical Economies of Scale Against Management Diseconomies of Size and Complexity," *Project Management Journal*, Vol. 15, No. 4, December 1984, pp. 82-89. [1984.RJ10]
- Levitt, Raymond E., and John C. Kunz, "Using Knowledge of Construction and Project Management for Automated Schedule Updating," *Project Management Journal*, Vol. XVI, No. 5, December 1985, pp. 57-76. [1985.RJ11]
- Miyasato, G. H.**, W. M. Dong, R. E. Levitt and **A. C. Boissonnade**, "Implementation of a Knowledge-Based Seismic Risk Evaluation System on Microcomputers," *Journal of Artificial Intelligence in Engineering*, Vol. 1, No. 1, July 1986, Computational Mechanics Publications, 1986, pp. 29-35. [1986.RJ12]
- Ashley, David B., and Raymond E. Levitt, "Expert Systems in Construction: Work in Progress," *ASCE Journal of Computing in Civil Engineering*, Vol. 1, No. 4, October 1987, pp. 303-311. [1987.RJ13]
- Levitt, Raymond E., and John C. Kunz, "Using Artificial Intelligence Techniques to Support Project Management," *Artificial Intelligence in Engineering Design, Analysis and Manufacturing, 1 (1)*, 1987, pp. 3-24 [1987.RJ14]

Papers in Refereed Journals (continued):

- Levitt, Raymond E., **Nabil A. Kartam** and John C. Kunz, "Artificial Intelligence Techniques for Generating Construction Project Plans," *ASCE Journal of Construction Engineering and Management*, Vol. 114, No. 3, September 1988, pp. 329-343 [1988.RJ15]
- Darwiche, Adnan**, Raymond E. Levitt and Barbara Hayes-Roth, "OARPLAN: Generating Project Plans by Reasoning about Objects, Actions and Resources," *Artificial Intelligence for Engineering Design, Analysis and Manufacturing*, Vol. 2, No. 3, 1988, pp. 169-181. [1988.RJ16]
- Howard, H. C., R. E. Levitt, B. C. Paulson, J. G. Pohl and C. B. Tatum, "Computer Integration: Reducing Fragmentation in the AEC Industry," *ASCE Journal of Computing in Civil Engineering*, Vol. 3, No. 1, January 1989, pp. 18-32 [1989.RJ17]
- Kartam, Nabil A.**, and Raymond E. Levitt, "Intelligent Planning of Construction Projects," *ASCE Journal of Computing in Civil Engineering, Special Issue: Knowledge-Based Approaches to Planning and Design*, Vol. 4, No. 2, April 1990, pp. 155-176. [1990.RJ18]
- Levitt, Raymond E., and **Nabil A. Kartam**, "Expert Systems in Construction Engineering and Management: State of the Art," *The Knowledge Engineering Review*, Vol. 5, No. 2, 1990, pp. 1- 29. [1990.RJ19]
- Tommelein, I. D.**, R. E. Levitt, B. Hayes-Roth and **T. Confrey**, "SightPlan Experiments: Alternate Strategies for Site Layout Design," *ASCE Journal of Computing in Civil Engineering, Special Issue on Expert Systems in Planning and Design*, Vol. 5, No. 1, January 1991, pp. 42-63. [1991.RJ20]
- Kartam, Nabil.** and Raymond E. Levitt, "An Artificial Intelligence Approach to Project Planning under Uncertainty," *Project Management Journal*, Vol. 22, No. 2, June 1991, pp. 7-11. [1991.RJ21]
- Kartam, N. A.**, R. E. Levitt and D. E. Wilkins, "Extending Artificial Intelligence Techniques for Hierarchical Planning," *ASCE Journal of Computing in Civil Engineering*, Vol. 5, No. 4, October 1991, pp. 464-477. [1991.RJ22]
- Dym, C. L., and R. E. Levitt, "Toward the Integration of Knowledge for Engineering Modeling and Computation," *Engineering with Computers*, Vol. 7, No. 4, pp. 209-224, Fall 1991. [1991.RJ23]
- Levitt, Raymond E., Yan Jin and Clive L. Dym, "Knowledge-based Support for Management of Concurrent, Multidisciplinary Design," *Artificial Intelligence for Engineering Design, Analysis and Manufacturing*, Vol. 5, No. 2, 1991, pp. 77-95. [1991.RJ24]
- Tommelein, I. D.**, B. Hayes-Roth and R. E. Levitt, "Altering the SightPlan Knowledge-based Systems," *Artificial Intelligence for Engineering Design, Analysis and Manufacturing*, Vol. 6, No. 1, 1992, pp. 19-37. [1992.RJ25]
- Tommelein, I. D.**, R. E. Levitt and B. Hayes-Roth, "Site Layout Modeling: How Can Artificial Intelligence Help?" *ASCE Journal of Construction Engineering and Management*, Vol. 118, No. 3, 1992, pp. 594-611. [1992.RJ26]
- Tommelein, I. D.**, R. E. Levitt and B. Hayes-Roth, "The SightPlan Model for Site Layout," *ASCE Journal of Construction Engineering and Management*, Vol. 118, No. 4, 1992, pp. 749-766. [1992.RJ27]

Papers in Refereed Journals (continued)

- Winstanley, Graham, **Michael A. Chacon**, and Raymond E. Levitt, "Model-Based Planning: Scaled-Up Construction Application," *ASCE Journal of Computing in Civil Engineering*, Vol. 7, No. 2, April 1993, pp.199-217 [1993.RJ28]
- Winstanley, Graham, **Michael A. Chacon**, and Raymond E. Levitt, "An integrated project planning environment," *Intelligent Systems Engineering*, Vol. 2, No. 2, 1993, pp.91-106 [1993.RJ29]
- Jin, Yan and Raymond E. Levitt, "i-AGENTS: Modeling Organizational Problem Solving in Multi-Agent Teams," *Intelligent Systems in Accounting, Finance and Management*, Vol. 2, 1993, pp. 247-270 [1993.RJ30]
- Dym, Clive L. and Raymond E. Levitt, "On the Evolution of CAE Research," *Journal of Artificial Intelligence in Engineering Design, Analysis and Manufacturing*, Vol. 8, No.4, Fall, 1994, pp. 275-282 [1994.RJ31]
- Jin, Yan, Raymond E. Levitt, **Tore Christiansen**, and John C. Kunz, "The Virtual Design Team: A Computer Simulation Framework for Studying Organizational Aspects of Concurrent Design," *Simulation*, Vol.64, No.3, pp.160-174, March, 1995. [1995.RJ32]
- Jin, Yan, Raymond E. Levitt, **Tore Christiansen** and John C. Kunz, "The Virtual Design Team: Modeling Organizational Behavior of Concurrent Design Teams," *Journal of Artificial Intelligence for Engineering Design, Analysis and Manufacturing*, Vol. 9, No.2, April, 1995, pp. 145-158. [1995.RJ33]
- Kunz, John C., **Gijsbertus T. Luiten**, Martin A. Fischer, Yan Jin and Raymond E. Levitt, "CE4: Concurrent Engineering of Product, Process, Facility and Organization," *Concurrent Engineering: Research and Applications*, 4 (2), June, 1996, pp. 187-198. [1996 RJ34].
- Kunz, John C., Yan Jin, Raymond E. Levitt, **Shouh-Dauh Lin** and Paul Teicholz, "Support for Integrated, Value-Based Maintenance Planning," *IEEE Expert*, 11 (4), Fall, 1996, pp.35-44. [1996 RJ36]
- Jin, Yan, and Raymond E. Levitt, "The Virtual Design Team: A Computational Model of Project Organizations," *Journal of Computational and Mathematical Organization Theory* 2 (3), Fall, 1996, pp. 171-195 [1997 RJ 37]
- Staudinger, J, G.A. Oralkan**, R.E. Levitt and P.V. Roberts, "The Haztimator Knowledge-Based Expert System: Providing Design and Time/Cost Estimates for Hazardous Waste Remediation," *Environmental Progress*, 16 (2,) 1997, pp. 82-87. [1997 RJ 38]
- Levitt, Raymond E., "Toward Analysis Tools for the Engineering Process," *Journal of Artificial Intelligence in Engineering Design, Analysis and Manufacturing*, Vol. 12, pp.77-88, 1998. [1998 RJ 39]
- Kunz, John C., **Tore R. Christiansen**, **Geoff P. Cohen**, Yan Jin, Raymond E. Levitt, "The Virtual Design Team: A Computational Simulation Model of Project Organizations," *Communications of the Association for Computing Machinery (CACM)* 41 (11), November, 1998, pp. 84-91. [1998 RJ 40]
- Nasrallah, Walid**, Peter Glynn and Raymond E. Levitt, "Diversity and Popularity in Organizations and Communities," *Journal of Computational and Mathematical Organization Theory*, Vol. 4, No. 4, pp 347-372, 1998. [1998 RJ 41]
- Christensen, L., Christiansen, T.R.**, Jin, Y., Kunz, J.C. & Levitt, R.E., "Modeling and Simulating Coordination in Projects" *IEEE Journal of Organizational Computing*, Vol. 9., no. 1, pp 33-56, 1999, Lawrence Erlbaum Associates, Mahwah, NJ, USA. [1999 RJ 42]

Papers in Refereed Journals (continued)

- Kunz, John C., Martin A. Fischer, **Jennifer S. Kim**, **Walid Nasrallah**, Raymond E. Levitt, "Concurrent Engineering of Facility Schedule and Project Organization," *International Journal of Computer-Integrated Design and Construction, Special Issue on Construction Process Reengineering, 1 (2)*, pp35-45, SETO, UK, September, 1999. [1999 RJ 43]
- Thomsen, Jan**, Raymond E. Levitt, John C. Kunz, Clifford I. Nass, Douglas B. Fridsma, "A Trajectory for Validating Computational Emulation Models of Organizations" *Journal of Computational & Mathematical Organization Theory, 5, (4)*, December 1999, pp. 385-401 [1999 RJ 44]
- Levitt, Raymond E., **Jan Thomsen**, **Tore R. Christiansen**, John C. Kunz, Yan Jin, and Clifford Nass, "Simulating Project Work Processes and Organizations: Toward a Micro-Contingency Theory of Organizational Design," *Management Science 45 (11)*, November, 1999, pp1479-1495. [1999 RJ 45]
- Nasrallah, Walid F.**, and Raymond E. Levitt, (2001). "An Interaction Value Perspective on Firms of Differing Size," *Journal of Computational and Mathematical Organization Theory, 7 (2)*, Kluwer Academic Publishers, 2001, pp 113-144. [2001 RJ 46]
- Akinci, Burcu**, Martin Fischer John Kunz, Raymond Levitt (2001). "Representing Work Spaces Generically in Construction Method Models." *Journal of Construction Engineering and Management, ASCE, 128, (4)*, 2002, 296-305. [2001 RJ 47]
- Akinci, Burcu**, Martin Fischer, Raymond Levitt, Robert Carlson, (2002). "Formalization and Automation of Time-Space Conflict Analysis," *ASCE Journal of Computing in Civil Engineering ASCE, 6 (2)*, 2001, 124-135. (Selected as the best paper of 2002 in *Journal of Computing in Civil Engineering*) [2001 RJ 48]
- Nasrallah, Walid F.**, Raymond E. Levitt and Peter Glynn, (2003). "Interaction Value Analysis: When Structured Communication Benefits Organizations," *Organization Science, 14 (5)* Sep-Oct, 2003, 541--557. [2003 RJ 49]
- Zolin Roxanne**, Pamela J. Hinds, Renate Fruchter, and Raymond E. Levitt, (2003). "Trust in Cross-Functional Teams," *Journal of Information and Organizations*, 2003, in press. [2003 RJ 50]
- Zolin, Roxanne**, Renate Fruchter and Raymond E. Levitt, (2003). "Realism and Control: Problem-based learning environments as a data source for work-related research" *International Journal of Engineering Education (IJEE) 19*, 2003. [2003 RJ 51]
- Kim, Keesoo**, Boyd C. Paulson, Raymond E. Levitt, Martin A. Fischer, Charles J. Petrie, (2003). "Distributed coordination of project schedule changes using agent-based compensatory negotiation methodology" *Journal of Artificial Intelligence in Engineering Design, Analysis and Manufacturing 17, 2003*, Cambridge University Press: pp. 115-131. [2004 RJ 52]
- Levitt, Raymond E., (2004). Computational Modeling of Organizations Comes of Age, *Journal of Computational & Mathematical Organization Theory, 10 (2)*: 127-145, July 2004. [2004 RJ 53]
- Nissen, Mark, and Raymond E. Levitt, (2004). "Agent-Based Modeling of Knowledge Dynamics," *Journal of Knowledge Management Research and Practice, 2 (3)*: 169-183. [2004 RJ 54]
- Horii, Tamaki**, Yan Jin and Raymond E. Levitt, (2004). "Modeling and Analyzing Cultural Influences on Project Team Performance," *Journal of Computational & Mathematical Organization Theory 10 (4)*: 305-321. [2004 RJ 55]

Raymond E. Levitt - Publications

- Thomsen, Jan**, Raymond E. Levitt, Clifford I. Nass, (2004). "The Virtual Team Alliance (VTA): Extending Galbraith's Information-processing Model to Account for Goal Incongruency" *Journal of Computational & Mathematical Organization Theory*, **10** (4): 349-372. [2004 RJ 56]
- Thomsen, Jan**, John C. Kunz, and Raymond E. Levitt, (2007). "Designing Quality into Project Organizations through Computational Organizational Simulation." *Journal of Organizational Computing and Electronic Commerce* **17** (1), in press. [2007 RJ 57]
- Mahalingam, Ashwin**, and Raymond E. Levitt (2007). "Safety Issues on Global Projects" *ASCE Journal of Construction Engineering and Management*, in press. [2007 RJ 58]

Conference Papers:

- Levitt, Raymond E., and Robert D. Logcher, "The Human Element in Project Control Systems," Project Management Institute Annual Symposium, Montreal, Canada, October 1976, pp 233-237. [1976.CP1]
- Logcher, Robert D., and Raymond E. Levitt, "Human Information-Handling Capacity as a Factor in the Design of Project Control Systems," USNCCIB International Symposium on Organization and Management of Construction, Vol. II, Washington, DC, May 1976, pp. 136-146. [1976.CP2]
- Levitt, Raymond E., and Robert D. Logcher, "Principles for an Integrated MIS for Design Firms," Second International Symposium on Organization and Management of Construction of CIB-W65, Vol. III, Haifa, Israel, October 31 - November 2, 1978, pp. 225-238. [1978.CP3]
- Levitt, Raymond E., David B. Ashley and Robert D. Logcher, "Assessing the Cost Impact of Risk Allocation in Construction," ASCE Convention, Atlanta, GA, October 1979. [1979.CP4]
- Levitt, Raymond E., "Superprojects and Superheadaches: Balancing Technical Economies of Scale Against Management Diseconomies of Size and Complexity," Project Management Institute/INTERNET Joint Annual Symposium, Boston, MA, September 1981, pp. 487-491. [1981.CP5]
- Samelson, Nancy M., Raymond E. Levitt and Henry W. Parker, "The Role of Owners in Reducing Construction Accident Costs," Project Management Institute/INTERNET Joint Annual Symposium, Boston, MA, September 1981, pp. 194-200. [1981.CP6]
- Levitt, Raymond E., "Defining and Measuring Productivity in Construction," ASCE Convention, Las Vegas, Nevada, April 1982. [1982.CP7]
- Samelson, Nancy M., and Raymond E. Levitt, "Owners' Guidelines for Selecting Safe Contractors," ASCE Convention, Las Vegas, Nevada, April 1982. [1982.CP8]
- Gunnarson, Sven**, and Raymond E. Levitt, "Is a Building Construction Project a Hierarchy or a Market?" Seventh INTERNET Congress, Copenhagen, Denmark, September 1982, pp. 521-529. [1982.CP9]
- Irwig, Henry G., and Raymond E. Levitt, "Organizational Adaptation to Small Computers," *Applications of Small Computers in Construction*, Wayne C. Moore, Editor, Proceedings of a session sponsored by the Construction Division of the American Society of Civil Engineers in conjunction with the ASCE National Convention, San Francisco, CA, October 1984, pp. 41-60. [1984.CP10]
- Levitt, Raymond E., and John C. Kunz, "A Knowledge-Based System for Updating Engineering Project Schedules," WAM/ASME symposium on applications of knowledge-based systems to engineering analysis and design, Miami Beach, FL, published in *Applications of Knowledge-Based Systems to Engineering Analysis and Design*, C. L. Dym, Editor, ASME Proceedings Vol. AD-10, November 1985, pp. 47-65. [1985.CP11]
- Levitt, Raymond E., "HOWSAFE: A Microcomputer-Based Expert System to Evaluate the Safety of a Construction Firm," in *Expert Systems in Civil Engineering*, proceedings of a symposium sponsored by the Technical Council on Computer Practices of the American Society of Civil Engineers, edited by Celal N. Kostem and Mary Lou Maher, ASCE Spring Convention Seattle, WA: April 1986, pp. 55-66 (translated and reprinted as "Sistema esperto per la sicurezza delle costruzioni," *Performance: Management in Edilizia*, Roma, Italy, Gennaio/Marco 1987, pp. 67-82). [1986.CP12]

Conference Papers (continued):

- Miyasato, G. H.**, W. M. Dong, R. E. Levitt, **A. C. Boissonnade** and H. C. Shah, "Seismic Risk Analysis Systems," in *Expert Systems in Civil Engineering*, proceedings of a symposium sponsored by the Technical Council on Computer Practices of the American Society of Civil Engineering), edited by Celal N. Kostem and Mary Lou Maher, ASCE Spring Convention, Seattle, WA: April 1986, pp. 121-132. [1986.CP13]
- Kunz, John C., Thomas Bonura, Raymond E. Levitt and Marilyn J. Stelzner, "Contingent Analysis for Project Management Using Multiple Worlds," Proceedings of the First International Conference on Applications of Artificial Intelligence to Engineering Problems, Southampton, UK: April 15-18, 1986, pp. 707-718. [1986.CP14]
- Tommelein, Iris D.**, **M. Vaughan Johnson, Jr.**, Barbara Hayes-Roth and Raymond E. Levitt, "SIGHTPLAN: A Blackboard Expert System for Construction Site Layout," IFIP WG5.2 Working Conference Expert Systems in Computer-Aided Design, Sydney, Australia: February 1987, pp. 1-15, and in Gero, J. S., *Expert Systems in Computer-aided Design*, North-Holland, Amsterdam, 1987, pp. 153-167. [1987.CP15]
- Levitt, Raymond E., "Safety—Accident Prevention," Keynote lecture at the Construction Symposium: International Section of the ISSA for the Prevention of Occupational Risks in the Construction Industry, organized by Bygghalsan, Danderyd, Sweden, May 1987, *Proceedings*, pp. 27-32. [1987.CP16]
- Paulson, Boyd C., Jr., and Raymond E. Levitt, "New Directions in Construction Engineering and Management," *Proceedings of US-Korea Joint Seminar/Workshop on Critical Engineering Systems*, Vol. 1, Chang-Koon Choi and Alfredo H-S. Ang, Eds., Korea, May 1987, pp. 287-301. [1987.CP17]
- Levitt, Raymond E., John C. Kunz and **Nabil A. Kartam**, "Using Artificial Intelligence Techniques for Automated Planning and Scheduling," Proceedings of the Fourth International Symposium on Robotics and Artificial Intelligence in Building Construction, Building Research Station, Technion IIT, Haifa, Israel, June 1987, pp. 27-52. [1987.CP18]
- Tommelein, Iris D.**, Raymond E. Levitt and Barbara Hayes-Roth, "Using Expert Systems for the Layout of Temporary Facilities on Construction Sites," in CIB W-65 Symposium 1987, UK: September 1987, in Lansley, P. R., and P. A. Harlow, (Eds.), *Managing Construction Worldwide: Vol. 1, Systems for Managing Construction*, E. & F. N. Spon, London, UK, 1987, pp. 566-577. [1987.CP19]
- Levitt, Raymond E., "AI in Project Management - Initial Attempts," in *Artificial Intelligence in the Engineering and Management of Major Projects: Hope or Reality?*, proceedings of workshop sponsored by Major Projects Association, London, September 1987, pp. 45-60. [1987.CP20]
- Kartam, Nabil A.**, and Raymond E. Levitt, "An Analysis of Artificial Intelligence Planning Systems," in Hamza, M. H., Ed., *Expert Systems Theory and Applications*, Proceedings of The International Association of Science and Technology for Development (IASTED), December 12-14, 1988, Los Angeles, CA, pp. 130-133. [1988.CP21]
- Axworthy, Alan**, and Raymond E. Levitt, "An Object-Oriented Approach for Scheduling of Construction Projects," Proceedings of the Sixth International Symposium on Automation and Robotics in Construction, San Francisco, CA, June 1989, pp. 325-331. [1989.CP22]

Conference Papers (continued):

- Kartam, Nabil A.**, and Raymond E. Levitt, "A Least-Commitment Approach to Planning Construction Projects with Repeated Cycles of Operation," Proceedings of the Sixth International Symposium on Automation and Robotics in Construction, San Francisco, CA, June 1989, pp. 189-196. [1989.CP23]
- Tommelein, Iris D.**, Raymond E. Levitt and Barbara Hayes-Roth, "SightPlan: An Artificial Intelligence Tool to Assist Construction Managers with Site Layout," Proceedings of the Sixth International Symposium on Automation and Robotics in Construction, San Francisco, CA, June 1989, pp. 340-347 [1989.CP24]
- Waugh, L. M.**, and R. E. Levitt, "Computerized Construction Scheduling," Proceedings of the 1989 Annual Conference of The Canadian Society for Civil Engineering, St. John's, Newfoundland, June 1989, pp. na. [1989.CP25]
- Kartam, Nabil A.**, and Raymond E. Levitt, "Planning and Execution in Uncertain Domains," Proceedings of the ASCE Sixth Conference on Computing in Civil Engineering, Atlanta, September 1989, pp. 92-99. [1989.CP26]
- Levitt, R. E., "Knowledge-based Planning Systems: An Engineering Perspective," First International Conference on Expert Planning Systems, 27-29 June 1990, Brighton, UK, pp. 181-185. [1990.CP27]
- Kartam, N. A.**, and R. E. Levitt, "A Constraint-based Approach to Construction Planning of Multi-story Buildings," First International Conference on Expert Planning Systems, 27-29 June 1990, Brighton, UK, pp. 245-250. [1990.CP28]
- Kartam, N. A.**, R. E. Levitt and D. E. Wilkins, "A Centralized Approach for Representing and Resolving Interactions among Multi-agent Tasks while Planning Hierarchically," IEEE, March 1990, pp. 250-256 [1990.CP29]
- Cohen, G. P.**, and R. E. Levitt, "The Virtual Design Team: An Object-oriented Model of Information-sharing in Project Design Teams," *ASCE Construction Congress, Expert Systems Symposium in Computer-integrated Design and Construction*, Cambridge, Massachusetts, April 1991. [1991.CP30]
- Jin, Y., J.C. Kunz, R.E. Levitt and G. Winstanley, "Design of Project Plans from Fundamental Knowledge of Engineering Systems," Proceedings of the AAAI Fall Symposium-Design from Physical Principles, Cambridge, MA, October 1992, pp. 149-154.. [1992.CP31]
- Jin, Y., and R.E. Levitt, "Model-Based and Interactive Planning for Predictive Plant Maintenance Management," Fifth International Conference on Computing in Civil Engineering, Anaheim, CA, June 1993, pp 1830-1837. [1993.CP32]
- Kunz, J.C., **G.P. Cohen**, and R.E. Levitt, "Using an Organizational Model to Predict Effects on Design Team Productivity," AAAI 93 Workshop on Design, August, 1993. [1993.CP33]
- Tiwari, Sanjai**, H.C. Howard, and R.E. Levitt, "The Management of Design: A Design Notification Scheme for Distributed AEC Framework," 1st International Conference on Management of Technology in Construction, August 17-20, 1993, Singapore [1993.CP34]
- Kunz, J.C., **G.P. Cohen**, and R.E. Levitt, "Modeling Effects of Organizational Structure and Communication Tools on Design Team Productivity," AAAI 93 Workshop on Organizational Modeling, August, 1993 [1993.CP35]

Conference Papers (continued):

- Jin, Yan, Raymond E. Levitt, and **Tore Christiansen**, "The Virtual Design Team: A Computer Simulation Framework for Studying Organizational Aspects of Concurrent Design," 1994 International Conference on Simulation in Engineering Education, January 23-27, 1994, Tempe, Arizona [1994.CP36]
- Jin, Yan, Raymond E. Levitt, **Tore Christiansen**, and John C. Kunz, "The Virtual Design Team: A Computational Model of Engineering Design Teams," AAAI'94 Spring Symposium on Computational Organization Design, March, 1994, Stanford, California [1994.CP37]
- Dym, Clive L. and Raymond E. Levitt, "Whatever happened to CAE?," presented at the workshop, *Bridging the Generations*, Carnegie Mellon University, June 18-19, 1994, Pittsburgh, PA [1994.CP38]
- Jin, Yan, and Raymond E. Levitt, "Computational Organizational Analysis for Designing Concurrent Engineering Teams," *Proceedings of Second Congress on Computing in Civil Engineering*, June 5-7, 1995, Atlanta, GA., pp. 1090-1097. [1995 CP39]
- Mabogunje, Ade**, Larry J. Leifer, Raymond E Levitt and Catherine Baudin, "ME210-VDT: A Managerial Framework for Measuring and Improving Design Process Performance", in proceedings IEEE Education Society, Frontiers in Education Conference Atlanta, Georgia, November 1-4, 1995, pp 3a5.20-26. [1995 CP40]
- Thomsen, J. Kwon, Y**, Kunz, J. C., and Levitt, R. E., "Modeling a Product Development Team: The Case of the Lockheed Launch Vehicle Program." *Third Congress on Computing in Civil Engineering, ASCE*, June 17-19, 1996, Anaheim, CA. pp. ??-??
- Kunz, John, Yan Jin, and Raymond Levitt, "Analysis of an Agile Organization: Use of the Virtual Design Team Organization Analysis Tool," *Conference on Agile and Intelligent Manufacturing Systems, Rensselaer Polytechnic Institute*, Oct. 2-3, 1996, pp. ??-??
- Levitt, Raymond E., "The Virtual Design Team, Modeling High Velocity Project Teams in Construction and Product Development," First International Conference on Computational and Mathematical Organization Theory, Monterrey, Mexico, Oct 30, 1996. [1996 CP41]
- Levitt, Raymond E., "Organizational Analysis and Design Tools: State of the Art," *First International Conference on Computational and Mathematical Organization Theory*, Monterrey, Mexico, Oct 30, 1996.[1996 CP 42]
- Levitt, Raymond E., "The Virtual Design Team: Designing Organizations and Work Processes like we Design Bridges and Chips," IEEE Workshop on Electronic Design Processes, April 23-25, 1997 [1997 CP 43]
- Levitt, Raymond E., "Toward Analysis Tools for the Engineering Process," *Conference on Computing Futures in Engineering Design*, Claremont, CA, May 2-3, 1997, pp. 11-14 [1997 CP 44]
- Thomsen, J.**, J. Kunz, **Y. Kwon, S. Miller**, R. Levitt, "Designing Quality into Product Development Organizations Through Computational Organizational Modeling and Simulation," *Workshop on Computational and Mathematical Organization Theory, INFORMS*, San Diego CA, May 3, 1997, pp12-14 [1997 CP 45]
- Thomsen, J., Kwon, Y.**, Kunz, J. C., and Levitt, R. E., "Simulating the Effects of Goal Incongruency on Project Team Performance." *Fourth Congress on Computing in Civil Engineering, ASCE*, June 17-19, 1997, Washington DC, pp. 643-650 (1997 CP 46)
- Levitt, R.E., **J. Thomsen** and **Y. K. Kwon**, "Promoting or Discouraging Conflict in Engineering Project Teams, Insights from a Computational Organization Design Perspective," *Workshop on Computational and Mathematical Organization Theory, INFORMS*, San Diego CA, May 3, 1997, pp. 26-28 [1997 CP 47]

Conference Papers (continued):

- Kim, J.S.**, Fischer, M.A., **Nasrallah, W.**, Kunz, J.C., and Levitt, R.E. (1997). "Concurrent Engineering of Facility, Schedule and Project Organization for Retrofit Projects." International Conference on Construction Process Reengineering CPR-97, Gold Coast, Australia, July 14-15, 647-658. [1997 CP 48]
- Levitt, Raymond E., **Jan Thomsen** and John C. Kunz, "A Proposed Trajectory of Validation Experiments for Computational Emulation Models of Organizations," *Proceedings of the Workshop on Computational and Mathematical Organization Theory, INFORMS*, Montreal Quebec, May, 1998, pp.34-41. [1998 CP 49]
- Levitt, Raymond E., "Computational Emulation Modeling of Organizations: State of the Art and State of Practice" *Proceedings of the Workshop on Computational and Mathematical Organization Theory, INFORMS*, Cincinnati, OH, May, 1999, pp.18-23. [1999 CP 50]
- Kunz, John C., **Carlos Rivero** and Raymond E. Levitt, "Simulating Work Processes and Organizations to 'Engineer' Strategic Projects," *Proceedings of the ETCE/OMAE 2000 Joint Conference: Energy for the New Millennium*, February 14-17, 2000, New Orleans, LA. , pp ??-?? [2000 CP 51]
- Lambert, Monique**, Raymond E. Levitt and John C. Kunz, "Modeling Flexible Exception Handling in High-Technology Project Organizations," 51st Annual Conference of the International Communication Association (ICA), Washington, DC., May 24-28, 2001. [2001 CP 52]
- Lambert, Monique**, John C. Kunz and Raymond E. Levitt, "Hierarchies and Transactive Memory Systems: Crafting a Model of Flexible Exception Handling," CASOS 2001 Conference, Carnegie Mellon University, Pittsburgh, PA. July 2001, pp. 79-83. [2001 CP 53]
- Cheng, Carol H.F.**, and Raymond E. Levitt, "Contextually changing behavior in medical organizations" Proceedings of the 2001 Annual Symposium of the American Medical Informatics Association, Washington, DC, Nov 3-7, 2001, pp xx-xx. [2001 CP 54]
- Kunz, John C., Fischer, Martin A., **Haymaker, John R.**, and Levitt, Raymond, E., "Integrated and Automated Project Processes in Civil Engineering: Experiences of the Center for Integrated Facility Engineering at Stanford University." *Computing in Civil Engineering Proceedings from the Specialty Conference on Fully Integrated and Automated Project Processes*, Anthony Songer and Paul Chinowsky (Eds.), ASCE, Reston, VA, 2001, pp. 96-105. [2001 CP 55]
- Levitt, Raymond E., **Michael Fyall**, Per Bjornsson, William Hewlett, III, Tarmigan Casebolt, "When Information Flow in Project Organizations Becomes Turbulent: Toward an Organizational Reynolds Number," *Proceedings of the Conference on Agent-Based-Modeling in the Social Sciences, UCLA Lake Arrowhead Conference Center*, May 2002, p3. [2002 CP 56]
- Levitt, Raymond E., (2003). "Concepts and Tools to Design Project Organizations," *Keynote Plenary Address, Proceedings of the ASCE Construction Congress, Honolulu, Hawaii, March 20, 2003.* [2002 CP 57]
- Louie, M.A.**, K.M Carley, **L. Haghshenass**, J.C. Kunz, and R.E. Levitt, (2003), "Model Comparisons: Docking ORGAHEAD and SimVision" 2003 Annual Conference of North American Association for Computational Social and Organizational Science, Carnegie Mellon University, Pittsburgh, PA, June 23, 2003. [2002 CP 58]
- Levitt, Raymond E., (2003). "Computational Modeling of Organizations Comes of Age," *Keynote Plenary Address, Proceedings of the 2003 Annual Conference of North American Association for Computational Social and Organizational Science*, Carnegie Mellon University, Pittsburgh, PA, June 23, 2003. [2002 CP 59]

Conference Papers (continued):

- Kunz, John C., Raymond E. Levitt and Martin Fischer, (2003). "Management **and** Leadership Education for Civil Engineers: Teaching Virtual Design **and** Construction for Sustainability," *Keynote Address(presented by co-author, Dr. John C. Kunz) to International Congress in Civil Engineering Education*, Ciudad Real, Spain, 18-20 September, 2003. [2002 CP 60]
- Nissen, Mark E., & Raymond E. Levitt, (2003). "Dynamic Models of Knowledge-Flow Dynamics," Proceedings of the Minnesota Knowledge Management Symposium, University of Minnesota, Minneapolis, MN, March 14-16, 2003. [2002 CP 61]
- Levitt, R.E. and Nissen, M.E., (2003). "The Virtual Design Team (VDT): A Multi-Agent Analysis Framework for Designing Project Organizations," *Proceedings International Conference on the Integration of Knowledge Intensive Multi-Agent Systems*, Boston, MA (October 2003). [2003 CP 62]
- Mahalingam, Ashwin** and Raymond E. Levitt, (2004). "Challenges on Global Projects—An Institutional Perspective," Proceedings of the International Symposium of the CIB W92 on Procurement Systems: Project Procurement for Infrastructure Construction, Chennai, India, January 7-10, 2004. [2004 CP 63]
- Nissen, M.E. and Levitt, R.E., (2004). "Agent-Based Modeling of Knowledge-Flows: Illustration from the Domain of Information Systems Design," *Proceedings Hawaii International Conference on System Sciences*, Waikoloa, HI (January 2004). [2004 CP 64]
- Cain, C.H.**, Levitt, R.E., Goldstein, M.K."Anticipating the effects of adaptive behavior on technology implementation using simulation modeling,"*Proceedings of Information Technology in Health Care: Sociotechnical Approaches. Second International Conference (ITHC 2004)*, Portland, Oregon; 13-14 Sept, 2004. [2004 CP 65]
- Chachere, J.**, J. Kunz, and R. Levitt (2004). "Can You Accelerate Your Project Using Extreme Collaboration? A Model Based Analysis" Proceedings of 2004 International Symposium on Collaborative Technologies and Systems, San Diego, CA; January 2004:139-145. [2004 CP 66]
- Horii, Tamaki**, Yan Jin and Raymond Levitt, (2004), "Modeling and Analyzing Cultural Influences on Team Performance through Virtual Experimentation" *Proceedings of the 2004 North America Association for Computational Social and Organizational Science (NAACSOS)*, Carnegie Mellon University, Pittsburgh, PA; awarded best student paper at NAACSOS 2004. [2004 CP 67]
- KHosraviani, Bijan** and Raymond E. Levitt, Organization Design Using Genetic Programming, Proceedings of North American Association for Computational Social and Organizational Science (NAACSOS) Conference, Pittsburgh, PA, June 27-29, 2004. [2004 CP 68]
- KHosraviani, Bijan**, Raymond E. Levitt and John. R. Koza, Organization Design Optimization Using Genetic Programming. In Keijzer, Maarten (editor). *Late-Breaking Papers at the 2004 Genetic and Evolutionary Computation Conference (GECCO-2004)*. Seattle, WA International Society of Genetic and Evolutionary Computation; July, 2004. [2004 CP 69]
- Levitt, Raymond E., **Tamaki Horii**, **Ashwin Mahalingam**, **Ryan Orr** and **John E. Taylor**, "Understanding and Managing the Effects of Institutional Differences on Global Projects," ASCE Specialty Conference on Management and Leadership in Construction, Hilton Head Island, South Carolina; March 2004. [2004 CP 70]

- Cain, C.H.**, Levitt, R.E., Goldstein, M.K. "Anticipating the effects of adaptive behavior on technology implementation using simulation modeling," *Proceedings of Information Technology in Health Care: Sociotechnical Approaches. Second International Conference (ITHC 2004)*, Portland, Oregon; 13-14 Sept, 2004. [2004 CP 71]
- Taylor, John E.**, and Raymond E. Levitt, "A New Model for Systemic Innovation Diffusion in Project-based Industries," Proceedings of the Project Management Institute International Research Conference, London, England; July 11-14, 2004. [2004 CP 72]
- Taylor, John E.**, and Raymond E. Levitt, "Innovation, Interfaces and Market Structure: Cases from the USA and Finland," NORDNET International Project Management Conference, Helsinki, Finland; September 29-October 2, 2004. [2004 CP 73]
- Taylor, J.E.** and R.E. Levitt, (2005). "Knowledge Flow Dynamics in Project-based Industries: Implications for Innovation, Productivity and Strategy," *Hawaii International Conference on Systems Science, January 2005*. [2005 CP 74]
- Mahalingam, Ashwin**, Raymond E. Levitt and W.Richard Scott, (2005). "Cultural Clashes in International Infrastructure Development Projects: Which Cultures Matter?" *Proceedings of the CIB W92 International Symposium on Construction Procurement—The Impact of Cultural Differences and Systems on Construction Performance*, Las Vegas, Feb 8-10, 2005. (Awarded Best Paper at Symposium) [2005 CP 75]
- Mahalingam, A.** and Levitt, R., (2005). "Understanding and Mitigating Challenges on Global Projects: The Role of the Freelance Expatriate", presented at *ASCE Construction Research Congress*, San Diego, California, USA, April, 2005. [2005 CP 76]
- Horii, Tamaki**, Yan Jin and Raymond E. Levitt (2005). "Impact of Multiple Normative Systems on Organization Performance of International Joint Ventures" *Proceeding of the 1st International Symposium on Normative Multiagent Systems (NorMAS2005) 54-64*, University of Hertfordshire, Hatfield, England, April 12-16, 2005. [2005 CP 77]
- MacKinnon, D.J.**, Levitt, R.E., and Nissen, M.E. (2005), "Knowledge as Inventory: Near-Optimizing Knowledge and Power Flows in Edge Organizations (Phase One)," *Conference Proceedings 10th ICCRTS*, June, 2005, McLean, VA, p. 1- 20. (Awarded: Best Student Paper at ICCRTS 2005 Conference) [2005 CP 78]
- Taylor, J.** and Levitt, R., 2005. "Aligning Innovations to Networks: The Global Challenge," *Academy of Management Annual Conference, Technology and Innovation Management Division*, Honolulu, HI, August 2005. [2005 CP 79]
- Orr, Ryan J.**, and Raymond E. Levitt, (2006). "Embeddedness, Emergent Uncertainty and Strategies for Foreign Markets," Proceedings of the ASCE 2nd Specialty Conference on Leadership and Management in Construction, Grand Bahamas, 4-6 May, 2006. [2005 CP 80]
- Taylor, John E.**, Raymond E. Levitt and Andrei Villaroel, (2006). "Simulating Learning in Interorganizational Networks: The Insidious Role of Task Interdependence and Relational Instability on System-level Learning", Proceedings of North American Association for Computational Social and Organizational Science (NAACSOS) Conference, Notre Dame, Indiana, June 22-23, 2006. (Winner of Best Paper Award at NAACSOS 2006.) [2006 CP 81]

Research Reports and Other Publications:

- Levitt, Raymond E., "Legal Aspects of Scheduling Techniques for Contractors," Stanford University, Construction Institute, Working Paper, 1974. [1974.RO1]
- Levitt, Raymond E., "The Effect of Top Management on Safety in Construction," Stanford Department of Civil Engineering, Technical Report No. 196, July 1975. [1975.RO2]
- Einstein, Herbert H., and Raymond E. Levitt, "Improved Designs for Tunnel Supports," U.S. Department of Transportation, Contract No. DOT-OS-60136, January 1978. [1978.RO3]
- Bourdon, Clinton C., and Raymond E. Levitt, "A Comparison of Wages and Labor Management Practices in Union and Non-Union Construction," MIT., Department of Civil Engineering, Publication No. 598, June 1978. [1978.RO4]
- Levitt, Raymond E., Robert D. Logcher and R. H. Burns, "Cooperative Control Systems for Improving Construction Productivity," prepared for National Center for Productivity and Quality of Working Life, MIT, Department of Civil Engineering, Publication No. 630, June 1978. [1978.RO5]
- Levitt, Raymond E., David B. Ashley, Robert D. Logcher and Michael W. Dziekan, "A Quantitative Method for Analyzing the Allocation of Risks in Transportation Construction," MIT, Department of Civil Engineering, Publication No. 613, February 1979. [1979.RO6]
- Levitt, Raymond E., Robert D. Logcher, David B. Ashley and J. M. Wolahan, "Options for the Design and Construction of Mass Transit Facilities," prepared for US Department of Transportation, UMTA, MIT, Department of Civil Engineering, Publication No. 643, May 11, 1979. [1979.RO7]
- Levitt, Raymond E., Henry W. Parker and Nancy M. Samelson, "Improving Construction Safety Performance: The User's Role," Stanford University, Department of Civil Engineering, Technical Report No. 260, August, 1981. Reprinted in summarized form as: *Improving Construction Safety Performance: The Business Roundtable, Construction Industry Cost Effectiveness Report A-3*, New York, NY: January 1982. [1982.RO8]
- Levitt, Raymond E., Nancy M. Samelson, **Jean Bretxa**, **Greg Mummy** and **Lloyd Waugh**, "Evaluation of the Line Foreman Safety Training Course," Stanford University, Department of Civil Engineering, Technical Report No. 281, May 1984. [1984.RO9]
- Caspe, Marc, Raymond E. Levitt and Henry W. Parker, "Boondoggles Can Be Prevented," *Engineering News-Record*, Vol. 212, No. 26, p. 24, June 28, 1984. [1984.RO10]
- Katz, Glenn L.**, and Raymond E. Levitt, "The Construction Executive Program: Stanford University's Aid to Managers," *The Military Engineer*, September 1984, pp. 364-367. [1984.RO11]

Research Reports and Other Publications (continued):

- Levitt, Raymond E., and Margaret Gelatt, (eds.), "The Stanford Seminar on Corporate Directorship," Stanford University, Department of Civil Engineering, Technical Report No. 284, July 1984. [1984.RO12]
- Levitt, Raymond E., "Problems in the Organization of Very Large Projects," Gruppo di Ricerca sul Management (G.R.M.), *Quaderni #21*, Rome, April 1985. [1985.RO13]
- Levitt, Raymond E., "Research Areas for the Application of Knowledge-Based Expert Systems to Construction Engineering and Management," White Paper for the National Science Foundation Workshop on the Development of New Research Directions in Computerized Applications to Construction Engineering and Management Studies, C. William Ibbs, Jr., Ed., July 1985, pp. 89-97. [1985.RO14]
- Levitt, Raymond E., and C. B. Tatum, "Resolving the Regulatory Dilemma for Major Utility Projects," *The Stanford Engineer*, Vol. 8, No. 2, October 1985, pp. 10-15. [1985.RO15]
- Levitt, Raymond E., "Expert Systems in Civil Engineering," contained in "Knowledge-Based Expert Systems: Research in Progress," *IEEE Software*, Vol. 3, No. 2, March 1986, pp. 57-58. [1986.RO16]
- Levitt, Raymond E., "Expert Systems in Construction: State of the Art," in *The State of the Art of Expert Systems in Construction*, Mary Lou Maher, Ed., U.S. Army Construction Engineering Research Laboratory, Champaign, Illinois, September 1986, pp. 21-25. [1986.RO17]
- Levitt, Raymond E., "Sistema Esperto per la Sicurezza delle Costruzioni," *Performance: Management in Edilizia*, Italy, Gennaio/Febraio/Marzo 1987, pp. 67-82. [1987.RO18]
- Tommelein, Iris D., M. V. Johnson, Jr., B. Hayes-Roth, R. E. Levitt,** "SightPlan: An Expert System for the Layout of Temporary Facilities on a Construction Site," Knowledge Systems Laboratory Report No. KSL 86-45, October 1987 [1987.RO19]
- Tommelein, Iris D.,** Raymond E. Levitt, Barbara Hayes-Roth, "Using Expert Systems for the Layout of Temporary Facilities on Construction Sites," Knowledge Systems Laboratory Report No. KSL 87-47, October 1987 [1987.RO20]
- Levitt, Raymond E., "Perspective: Why Safety Leadership Must Come from on Top," in Kinney, Joseph A., Project Director, *Faces: The Toll of Workplace Death on American Families*, National Safe Workplace Institute Press, April 1989, pp. 95-96 [1989.RO21]
- Ito, Kenji, Yasumasa Ueno, Raymond E. Levitt and **Adnan Darwiche**, "Linking Knowledge-Based Systems to CAD Design Data with an Object-Oriented Building Product Model," report funded by Center for Integrated Facility Engineering (Stanford University), Stanford University, NSF #MSM-8716608 and USA CERL, published as CIFE Working Paper #17, Stanford University, August 1989 [1989.RO22]

Research Reports and Other Publications (continued):

- Levitt, R. E., **I. Tommelein**, B. Hayes-Roth and **T. Confrey**, "Using the BB1 Blackboard Control Architecture in the SightPlan System for the Design of Construction Site Layouts," videotape discussion and software demonstration, Center for Integrated Facility Engineering, Stanford University, 1989. [1989.RO__]
- Levitt, Raymond E., **Iris D. Tommelein**, Barbara Hayes-Roth and **Tony Confrey**, "SightPlan: A Blackboard Expert System for Constraint-based Spatial Reasoning about Construction Site Layout," Technical Report #20, Center for Integrated Facility Engineering, Department of Civil Engineering, Stanford University, Stanford, CA, October 1989 [1989.RO23]
- Levitt, Raymond E., "SIGHTPLAN: An Expert System for Laying Out the Temporary Equipment on a Construction Site," video by *The Stanford Computer Science Video Journal: Artificial Intelligence Research Lectures*, Morgan Kaufmann Publishers, San Mateo, CA, 1989 [1989.RO24]
- Ito, Kenji, Kincho H. Law and Raymond E. Levitt, "PMAPM: An Object-oriented Project Model for A/E/C Process with Multiple Views," Stanford University Center for Integrated Facility Engineering Technical Report No. 34, Stanford University, July 1990 [1990.RO25]
- Levitt, Raymond E., "Merging Artificial Intelligence with CAD: Intelligent, Model-based Engineering," Stanford University Center for Integrated Facility Engineering Technical Report No. 28, Stanford University, October 1990 [1990.RO26]
- Levitt, Raymond E., Clive L. Dym and Yan Jin, "Knowledge-Based Support for Concurrent, Multidisciplinary Design," CIFE Working Paper #10, Center for Integrated Facility Engineering, Department of Civil Engineering, Stanford University, Stanford, CA, January 1991. [1991.RO27]
- Levitt, R.E., Axworthy, A., and Katajamaki, M., "Automating Engineering Design with Design ++" (in Japanese), Nikkei Artificial Intelligence, Winter, 1991, pp. 118-127 [1992.RO28]
- Tauber, Ellen R.**, R.E. Levitt, **G.A. Oralkan**, F.C. Reinberg, and **T.J. Walsh**, "The Conceptimator: An Expert System for Conceptual Cost Estimating of Building Foundations," CIFE Working Paper #14, Center for Integrated Facility Engineering, Department of Civil Engineering, Stanford University, Stanford, CA June 1992. [1992.RO29]
- Levitt, Raymond E., **G.P. Cohen**, J.C. Kunz, C.I. Nass, "The "Virtual Design Team": Using Computers to Model Information Processing and Communication in Organizations," CIFE Working Paper #16, Center for Integrated Facility Engineering, Department of Civil Engineering, Stanford University, Stanford, CA, July 1992. [1992.RO30]
- Oralkan, Gaye A.**, **Jeff Staudinger**, Raymond E. Levitt, Paul Roberts, "The Haztimator - Knowledge-Based Time and Cost Estimating of Hazardous Waste Remediation Projects," CIFE Working Paper #23, Center for Integrated Facility Engineering, Department of Civil Engineering, Stanford University, Stanford, CA, November 1993 [1993.RO31]
- Jin, Yan, Raymond E. Levitt, and **Tore Christiansen**, "The Virtual Design Team: A Computer Simulation Framework for Studying Organizational Aspects of Concurrent Design," CIFE Working Paper #24, Center for Integrated Facility Engineering, Department of Civil Engineering, Stanford University, Stanford, CA, November 1993. [1993.RO32]

Research Reports and Other Publications (continued):

- Levitt, Raymond E., **Geoffrey P. Cohen**, John C. Kunz, Clifford I. Nass, **Tore Christiansen**, and Yan Jin, "The Virtual Design Team: Simulating How Organization Structure and Information Processing Tools Affect Team Performance," CIFE Technical Report #83, Center for Integrated Facility Engineering, Stanford University, Stanford, California, April 1993 [1993.RO33]
- Oralkan, Gaye A.**, Yan Jin, and Raymond E. Levitt, "Modeling Organizational Change in Response to Information Technology," CIFE Working Paper #26, Center for Integrated Facility Engineering, Stanford University, Stanford, California, February 1994 [1994.RO34]
- Levitt, Raymond E., **Tore R. Christiansen**, **Geoff P. Cohen**, Yan Jin, John C. Kunz, Clifford I. Nass, "The Virtual Design Team: A Computational Simulation Model of Project Organizations," CIFE Working Paper #29, Center for Integrated Facility Engineering, Stanford University, Stanford, California, March 1994 [1994.RO35]
- Jan Thomsen**, Martin A. Fischer, and Raymond E. Levitt, "The Virtual Team Alliance (VTA): An Extended Theory of Coordination in Concurrent Product Development Projects," *CIFE Working Paper # 44*, (March, 1998; 44 pages) [1998 RO36]
- Jan Thomsen**, Raymond E. Levitt, and Clifford I. Nass, "The Virtual Team Alliance (VTA): Extending Galbraith's Information-Processing Model to Account for Goal Incongruity," *CIFE Working paper # 45*, (March, 1998; 37 pages) [1998 RO37]
- Jan Thomsen**, John C. Kunz, and Raymond E. Levitt, "Designing Quality into Project Organizations through Computational Organizational Simulation," *CIFE Working Paper # 46*, (March, 1998; 43 pages) [1998 RO38]
- Jan Thomsen**, Raymond E. Levitt, John C. Kunz, and Clifford I. Nass, "A Proposed Trajectory of Validation Experiments for Computational Emulation Models of Organizations," *CIFE Working Paper # 47*, (March, 1998; 33 pages) [1998 RO39]
- Kunz, J., Fischer, M., **Haymaker, J.**, and Levitt, R., *Integrated and Automated Project Processes in Civil Engineering: Experiences of the Center for Integrated Facility Engineering at Stanford University. (Center for Integrated Facility Engineering, Stanford University, Technical Report # 132,)*, 2002.
- Levitt, R. and Kunz, J., *Design Your Project Organization as Engineers Design Bridges. (Center for Integrated Facility Engineering, Stanford University, Working Paper # 073, 2002.*
- Mortensen, M.**, Kunda, G., **Triesch, M.**, and Levitt, R., "The Effects of Project Extranet Software on Project-wide Communication Patterns," *Center for Integrated Facility Engineering, Stanford University, Working Paper # 072*, 2002.
- Nissen, M. and Levitt, R., "Dynamic Models of Knowledge-Flow Dynamics," *Center for Integrated Facility Engineering, Stanford University, Working Paper # 76*, 2002.
- Nissen, M. and Levitt, R., "Toward Simulation Models of Knowledge-Intensive Work Processes," *Center for Integrated Facility Engineering, Stanford University, Working Paper #077*, 2002.
- Palazzolo, E.**, **Ghate, A.**, **Dandi, R.**, **Mahalingam, A.**, Contractor, N., and Levitt, R., "Modeling 21st Century Project Teams: Docking Workflow and Knowledge Network Computational Models," *Center for Integrated Facility Engineering, Stanford University, Technical Report # 140*, 2002.

Zolin, R., Hinds, P., Fruchter, R., and Levitt, R., "Trust in Cross-Functional, Global Teams," *Center for Integrated Facility Engineering, Stanford University, Working Paper # 067*, 2002.

Zolin, R., Fruchter, R., and Levitt, R., "*Realism and Control: Problem-Based Learning Programs as a Data Source for Work-Related Research*," *Center for Integrated Facility Engineering, Stanford University, Working Paper #068*, 2002.

Ekström, Martin A., Hans C. Björnsson, John C. Kunz, Raymond E. Levitt, Clifford I. Nass (2003). "The Impact of Rating Systems on Subcontracting Decisions - A Transaction Cost Analysis" *Center for Integrated Facility Engineering, Stanford University, Technical Report # 135*, February 2003, 35 pages, pdf file size: 499KB)

Taylor, J. and Levitt, R., 2005. "Modeling Systemic Innovation in Design and Construction Networks," *Stanford University, Center for Integrated Facility Engineering, Technical Report #163*, Stanford, CA.

Taylor, J. and Levitt, R., 2004. "Bridging the Innovation Gap in Project-based Industries," *Stanford University, Center for Integrated Facilities Engineering, Technical Report #159*, Stanford, CA.