

Selected Publications (since 1992)

Books and Monographs:

Kleinman, D.L., P.B. Luh, K.R. Pattipati, and D. Serfaty, "Mathematical Models of Team Distributed Decisionmaking." In R.W. Swezey and E. Salas (Eds.), *Teams: Their Training and Performance* (pp. 177-218), ABLEX, New York, 1992.

Burton, G. and D. L. Kleinman, "Task Identification with and without Feedback in Hierarchical Teams," in C. Jones, (Ed.), *Toward a Science of Command, Control, and Communications*, (pp. 21-38), The AIAA Progress Series, Washington, DC, 1993.

Shi, P., P. B. Luh and D. L. Kleinman, "Team Coordination under Individual and Team Goals," in K. M. Carley and M. J. Prietula, (Eds.), *Computational Organization Theory*, L. Erlbaum Associates, Hillsdale, NJ, 1994.

W.P. Wang, D.L. Kleinman, and P.B. Luh, "Modeling Team Coordination and Decisions in a Distributed Dynamic Environment," In G.M. Olsen, T.W. Malone and J.B. Smith (Eds.), *Coordination Theory and Collaborative Technology*, (pp. 673-710) L. Erlbaum Associates, Mahwah, NJ, 2001.

Refereed Journal Articles:

Tang, Z.B., K.R. Pattipati and D.L. Kleinman, "Optimization of Detection Networks: Part II- Generalized Tree Structures", *IEEE Trans.on Systems, Man and Cybernetics*, Vol. SMC-23, No. 1, January/February 1993, pp. 211-221.

Pete, A., K.R. Pattipati, and D.L. Kleinman, "Optimal Team and Individual Decision Rules in Uncertain Dichotomous Situations," *Public Choice*, Vol. 75, January 1993, pp. 205-230.

Pete, A., K. R. Pattipati and D. L. Kleinman, "Distributed Detection in Teams with Partial Information: A Normative-Descriptive Model," *IEEE Trans. on Systems, Man and Cybernetics*, Vol. 23, No. 6, November/December 1993, pp. 1626-1648.

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Pete, A., K. R. Pattiapti and D. L. Kleinman, "Optimization of Detection Networks with Multiple Event Structures," *IEEE Trans. on Automatic Control*, Vol. 39, August 1994, pp. 1702-1707.

Shakeri, M., K. R. Pattipati and D. L. Kleinman, "Optimal Measurement Scheduling for State Estimation," *IEEE Trans. on Aerospace and Electronic Systems*, Vol. 31, No. 2, April 1995, pp. 716-729.

Pete, A., K.R. Pattipati, and D.L. Kleinman, "Structural Reconfiguration and Informal Coordination in Administrative Organizations," *Computational and Mathematical Organization Theory*, Vol. 1, No. 1, October 1995, pp. 93-116.

Pete, A., K.R. Pattipati, and D.L. Kleinman. "Optimization of Decision Networks in Structured Task Environments," *IEEE Trans. on Systems, Man and Cybernetics*, Vol. 26, No. 11, November 1996.

Pete, A., K.R. Pattipati, D.L. Kleinman, and Y.N. Levchuk, "An Overview of Decision Networks and Organizations," *IEEE Trans. on Systems, Man and Cybernetics-Part C: Applications*, Vol. 28, No. 5, May 1998, pp. 171-192.

Pattipati, K.R., A. Pete, Y.N. Levchuk, and D.L. Kleinman, "Decision Networks and Organizations," Invited chapter in the *Encyclopedia of Life Support Systems*, to appear 1999.

Levchuk, Y.N., K.R. Pattipati, and D.L. Kleinman, "Analytic Model Driven Organizational Design and Experimentation in Adaptive Command and Control," *Systems Engineering*, Vol. 2, No. 2, 1999.

Levchuk, G. M., Y. N. Levchuk, J. Luo, K. R. Pattipati, and D. L. Kleinman, "Normative Design of Organizations – Part I: Mission Planning", submitted to IEEE Trans. Systems, Man and Cybernetics, 2001.

Levchuk, G. M., Y. N. Levchuk, J. Luo, K. R. Pattipati, and D. L. Kleinman, "Normative Design of Organizations – Part II: Organizational Structure", submitted to IEEE Trans. Systems, Man and Cybernetics, 2001.

Conference Proceedings:

Raghavan, V., P. K. Willett, K. R. Pattipati and D. L. Kleinman, "Optimal Measurement Sequencing in M-ary Hypothesis-Testing Problems," *Proc. American Control Conference*, Chicago, IL, June 1992, pp. 2164-2168.

Shi, P., P. B. Luh and D. L. Kleinman, "The Impact of Individual vs Team Goals on Human Distributed Dynamic Decisionmaking: A Mathematical Model," *Proc. American Control Conference*, Chicago, IL, June 1992, pp. 1976-1977.

Tang, T.-M., P. B. Luh and D. L. Kleinman, "Coordination with Constrained Resources: A Modeling Framework," *Proc. American Control Conference*, Chicago, IL, June 1992, pp. 1978-1979.

Pete, A., K. R. Pattipati and D. L. Kleinman, "Team Relative Operating Characteristic: A Measure of Team Expertise in Distributed Decision Tasks," *5th IFAC/IFIP/IFORS/IEA Symposium on Man-Machine Systems*, The Hague, Netherlands, June 1992, pp. 127-132.

Lin, J.-N., A. Song, D. L. Kleinman and P. B. Luh, "Hierarchical Team Coordination Under Task Uncertainty: Experiment Design and Petri Net Modeling," *Proc. 1992 Symposium on Command and Control Research*, NPS, Monterey, CA, June 1992, pp. 57-64.

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- Song, A. and D. L. Kleinman, "Petri Net Simulation and Parameter Optimization for Designing Distributed Dynamic Decisionmaking Experiments" *Proc. Summer Computer Simulation Conference*, Boston, MA, July 1993, pp. 948-953.
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- Pete, A., K. R. Pattipati and D. L. Kleinman, "Structural Adaptation versus Strategy Coordination in Decisionmaking Organizations," *Proc. IEEE International Conference on Systems, Man and Cybernetics*, San Antonio, TX, October 1994, pp. 188-193.
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Curry, M.L., D.L. Kleinman, and K.R. Pattipati, "Mission Modeling as a Driver for the Design and Analysis of Organizations," *Proc. 1997 Command and Control Research and Technology Symposium*, Washington, DC, June 17-20, 1997.

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