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References

B. Bernard and S. Ferrari, "A Geometric Transversals Approach to Track Coverage of Maneuvering Targets," *Proc. IEEE Conference on Decision and Control*, Atlanta, GA, 2010.

G. Foderaro and S. Ferrari, "Necessary Conditions for Optimality for a Distributed Optimal Control Problem," *Proc. IEEE Conference on Decision and Control*, Atlanta, GA, 2010.

W. Lu, G. Zhang, and S. Ferrari, "A Randomized Hybrid System Approach to Coordinated Robotic Sensor Planning," *Proc. IEEE Conference on Decision and Control*, Atlanta, GA, 2010.

S. Ferrari and G. Daugherty, "A Q-Learning Approach to Online Unmanned Air Vehicle (UAV) for Target Detection and Classification," *Proc. SPIE Conference*, Orlando, FL, April 2010.

•K. C. Baumgartner, S. Ferrari, and T. A. Wettergren, "Robust Deployment of Ocean Sensor Networks," *IEEE Sensors Journal*, Vol. 9, No. 9, pp. 1029-1048, 2009.

•K. C. Baumgartner, S. Ferrari, and A. Rao, "Optimal Control of a Mobile Sensor Network for Cooperative Target Detection," *IEEE Journal of Oceanic Engineering*, Vol. 34, No. 4, pp. 678-697, 2009.

•G. Zhang, S. Ferrari, and M. Qian, "Information Roadmap Method for Robotic Sensor Path Planning," *Journal of Intelligent and Robotic Systems*, Vol. 56, pp. 69-98, 2009.

•S. Ferrari, R. Fierro, B. Perteet, C. Cai, and K. C. Baumgartner, "A Multi-Objective Optimization Approach to Detecting and Intercepting Dynamic Targets using Mobile Sensors," *SIAM Journal on Control and Optimization*, Vol. 48, No. 1, pp. 292-320, 2009.

S. Ferrari and C. Cai, "Information-Driven Search Strategies in the Board Game of CLUE[®]," *IEEE Transactions on Systems, Man, and Cybernetics - Part B*, Vol. 39, No. 3, pp. 607-625, June 2009.

C. Cai and S. Ferrari, "Information-Driven Sensor Path Planning by Approximate Cell Decomposition," 18 IEEE Transactions on Systems, Man, and Cybernetics - Part B, Vol. 39, No. 3, pp. 672-689, June 2009.



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