

WEEK 1 ASSIGNMENTS:

Monday, 3/31/08

For Wednesday (4/2/08), read following chapters on connectionism control for class discussion on NN application to controls. These are available on course Web site.

- a.) Barto, A.G., “Connectionist Learning for Control: An Overview”, Ch. 1 in *Neural-Networks for Control*, Miller, Sutton & Werbos, Eds, MIT Press, pp. 5-58, 1991.
- b.) Werbos, P.J., “Overview of Designs and Capabilities”, Ch. 2 in *Neural Networks for Control*, Miller, Sutton & Werbos, Eds, MIT Press, pp. 59-66, 1991.

Wednesday, 4/2/08.

For Monday 4/7/08, read the following chapters on Adaptive Critic methods, available on course Web site.

Lendaris, G.G. & T.T. Shannon, 1998, “Designing (Approximate) Optimal Controllers via DHP Adaptive Critics & Neural Networks”, Draft of Invited Chapter for *The Handbook of Applied Computational Intelligence*, CRC Press, Padget, Karayianis, & Zadeh, Eds. [book not published].

Lendaris, G.G. & J.S. Neidhoefer, 2004, “Guidance in the Use of Adaptive Critics for Control,” Ch. 4 in *Handbook of Learning and Approximate Dynamic Programming*, Si, et al, Eds., IEEE Press & Wiley Interscience, pp. 97-124, 2004.

NOTE: There is substantial overlap between the two chapters. The 1998 reading has a more introductory bent; the 2004 reading adds in more recent results.