PUBLICATIONS

D. Subbaram Naidu, PhD, PE, Fellow IEEE
July 22, 2009

Published/Presented over 200 items including

- *5* books (2 research monographs, 2 reference books, and 1 graduate level text book),
- *3* articles/chapters in books,
- *10* peer-reviewed survey papers (Conference and Journal),
- *43* peer reviewed, archival journal articles,
- *88* peer reviewed conference publications (based on full length manuscripts),
- *6* peer reviewed conference publications (based on abstracts)
- *48* research reports, and
- *70* book reviews published in refereed journals.

I. Ph.D. Thesis

1. **D.S. Naidu**, *Applications of Singular Perturbation Technique to Problems in Control Systems*, Ph.D. Thesis, Department of Electrical Engineering, Indian Institute of Technology (IIT), Kharagpur, India

II. Research Monographs and Books

2. **D.S. Naidu** and A. K. Rao, *Singular Perturbation Analysis of Discrete Control Systems*, Lecture Notes (Research Monograph) in Mathematics, Vol. 1154, Springer-Verlag, Berlin, West Germany, 1985. Reviewed in IFAC Journal Automatica, Vol. 23, pp. 679-680, 1987 and SIAM Review, pp. 664-665, 1988.

3. **D.S. Naidu**, *Singular Perturbation Methodology in Control Systems*, IEE Control Engineering Series, Vol. 34, Peter Peregrinus Limited, Stevenage Herts, UK, 1988.

4. **D.S. Naidu**, *Aeroassisted Orbital Transfer: Guidance and Control Strategies*, Lecture Notes (Research Monograph) in Control and Information Sciences, Vol. 188, Springer-Verlag, London, UK, 1994.

5. **D.S. Naidu**, *Optimal Control Systems*, Graduate Level Textbook, CRC Press, Boca Raton, FL, 2003. Reviewed in IEEE Transactions on Automatic Control, Vol. 49, pp. 155-156, January 2004 and Applied Mechanics Reviews, Vol. 57, pp. B3-B4, January 2004. Second Edition in preparation.

   The book has been used by institutions within United States (26) and the rest of the world (33): Brazil, Canada, France, India, Japan, New Zealand, Norway, Poland, Sweden, Thailand, United Arab Emirates (UAE), United Kingdom (UK), etc.

6. **D.S. Naidu, S. Ozcelik and K.L. Moore**, *Modeling, Sensing and Control of Gas Metal Arc Welding*, Research Level Reference Book, Elsevier Science Ltd, Oxford, UK, 2003.

7. **D.S. Naidu**, *Solutions Manual for Optimal Control Systems*, CRC Press, Boca Raton, FL, January 2004.

III. Articles/Chapters in a Book

8. G.P. Rao, S. Sinha, **D.S. Naidu**, and N.K. De, "Some Aspects of Microprocessor-Based Control and Identification," in *Microprocessors-Based Control Systems*, N.K. Sinha(Ed.), D. Reidel Publishing Company, Dordrecht, Holland, Chapter 2, pp. 7–34, 1986.

9. **D.S. Naidu**, "Singular Perturbations and Time Scales in Aerospace Systems: An Overview", in *Nonlinear Problems in Aviation and Aerospace*, Edited by S. Sivasundaram, Gordon and Breach Science Publishers, Amsterdam, The Netherlands, pp. 251-263, 2000.

10. **D.S. Naidu**, "Root Locus", in *The Electrical Engineering Handbook, Second Edition*, Editor-in-Chief: Richard C. Dorf, pp. 171-1–171-13, CRC Press, Boca Raton, FL, 2005 (published in June 2004).

11. V.K. Nandikolla and **D.S. Naidu**, "Fusion of Soft and Hard Computing Techniques for a Circulatory System in Biomedical Engineering", Book Chapter accepted under *Recent Advances in Biomedical Engineering* in a book titled, **Computational Intelligence & Modern Heuristics**, INTECH, Vienna, Austria, 14 February 2009.

IV. Survey Papers/Reports

12. **D.S. Naidu**, D.B. Price, and J.L. Hibey, "Singular perturbations and time scales (SPaTS) in discrete control systems-an overview," *Proceedings of The 26th IEEE Conference on Decision and Control (CDC)*, pp. 2096–2103, Los Angles, CA, December 9-11, 1987. (**Invited Paper, Session Organizer and Chair**)

13. **D.S. Naidu** and D.B. Price, *Singular perturbations and time scales in the design of digital flight control systems*, NASA Technical Paper (TP) No. 2844, NASA Langley Research Center, Hampton, VA, December, 1988.

14. **D.S. Naidu** and A.J. Calise, "Singular perturbations and time scales in control theory and applications: survey 1983–1989," *International Federation of Automatic Control (IFAC) Workshop on Singular Perturbations and Asymptotic Methods in Systems and Control*, Boston, MA, August 17-18, 1989. (**Invited Paper**)

15. **D.S. Naidu**, "Singular perturbations and time scales (SPaTS) in control theory and applications: overview 1983–1992," *Proceedings of the 9th International Conference on Systems Engineering*, pp. 275–279, University of Nevada, Los Vegas, Nevada, July 14-16, 1993. (**Invited Paper and Session Chair**)

16. **D.S. Naidu**, "Guidance and control strategies for aeroassisted orbital transfer: status survey," *AIAA Atmospheric Flight Mechanics (AFM) Conference*, Scottsdale, Arizona, August 1-3, 1994. (Session Organizer and Session Chair)

17. **D.S. Naidu** and A.J. Calise, "Singular perturbations and time scales in guidance, navigation and control (GNC) of aerospace systems: survey," Proceedings of the *AIAA Guidance, Navigation and Control (GNC) Conference*, Baltimore, Maryland, pp. 1338-1362, August 7-10, 1995. (**Invited Survey Paper**).

18. **D.S. Naidu**, "Modeling, Sensing and Control of Gas Metal Arc Welding: A Status Survey", Technical Report: 1997/98 001, Measurement and Control Engineering Research Center, College of Engineering, Idaho State University, Pocatello, Idaho, September 1, 1997.

19. **D.S. Naidu** and A.J. Calise, "Singular perturbations and time scales in guidance and control of aerospace systems: a survey," *AIAA Journal of Guidance, Control and Dynamics*, Vol. 24, Nr. 6, pp. 1057-1078, November-December 2001 (**Invited Survey Paper**: 22 pages and 412 references; Presented with a plaque with "Survey Paper Citation" by AIAA).

20. **D.S. Naidu**, "Singular Perturbations and Time Scales in Control Theory and Applications: Overview," Special Issue on Singularly Perturbed Dynamic Systems in Control Technology (edited by Z. Gajic) in *Dynamics of Continuous, Discrete and Impulsive Systems (DCDIS) Journal*, Vol. 9, pp. 233-278, June 2002 (**Invited Survey Paper**: 46 pages and 467 references).The number of citations this article received places it in the top 1% within the field according to *Essential Science Indicators*^{SM}.

21. **D.S. Naidu**, C.-H. Chen, A. Perez, and M.P. Schoen, "Control Strategies for Smart Prosthetic Hand Technology: An Overview", Proceedings of the 30th Annual International IEEE EMBS Conference, pp. 4314-4317, Vancouver, British Columbia, Canada, August 20-24, 2008.

V. Peer-Reviewed, Archival Journal Articles

22. **D.S. Naidu** and P.K. Rajagopalan, "Application of Vasileva's singular perturbation method to a problem in ecology," *International Journal of Systems Science*, Vol. 10, pp. 761–774, 1979.

23. **D.S. Naidu** and P.K. Rajagopalan, "Singular perturbation method for a closed-loop optimal control problem," *IEE Proceedings-D: Control Theory and Applications*, Vol. 127, pp. 1–6, 1980.

24. P.K. Rajagopalan and **D.S. Naidu**, "Singular perturbation analysis of a closed-loop fixed-end-point optimal control problem," *IEE Proceedings-D: Control Theory and Applications*, Vol. 127, pp. 194–203, 1980.

25. P.K. Rajagopalan and **D.S. Naidu**, "A singular perturbation method for discrete control systems," *International Journal of Control*, Vol. 32, pp. 925–936, 1980.

26. **D.S. Naidu** and A.K. Rao, "Singular perturbation method for initial value problems with inputs in discrete control systems," *International Journal of Control*, Vol. 33, pp. 953–965, 1981.

27. P.K. Rajagopalan and **D.S. Naidu**, "Singular perturbation method for discrete models of continuous systems in optimal control," *IEE Proceedings-D: Control Theory and Applications*, Vol. 128, pp. 142–148, 1981.

28. A.K. Rao and **D.S. Naidu**, "Singularly perturbed boundary value problems in discrete systems," *International Journal of Control*, Vol. 34, pp. 1163–1173, 1981.

29. A.K. Rao and **D.S. Naidu**, "Singular perturbation method applied to open-loop discrete optimal control problem," *Optimal Control: Applications & Methods*, Vol. 3, pp. 121–131, 1982.

30. P.K. Rajagopalan and **D.S. Naidu**, "A method for singularly perturbed initial value problems in discrete control problems," *Journal of Institution of Engineers(I)*, Part ET-1, Vol. 63, pp. 1–3, 1982.

31. **D.S. Naidu** and A.K. Rao, "Singular perturbation methods for a class of initial and boundary value problems in discrete systems," *International Journal of Control*, Vol. 36, pp. 77–94, 1982.

32. **D.S. Naidu** and S. Sen, "Singular perturbation method for the transient analysis of a transformer," *Electric Power Systems Research*, Vol. 5, pp. 307–313, 1982.

33. P.K. Rajagopalan and **D.S. Naidu**, Reply to "Singular perturbation method for discrete models of continuous systems in optimal control," *IEE Proceedings-D: Control Theory and Applications*, Vol. 130, pp. 136, 1983.

34. P.K. Rajagopalan and **D.S. Naidu**, "Vasileva's singular perturbation method to linear systems with typical control inputs," *Journal of Institution of Engineers(I)*, Vol. ET-2, pp. 46–49, 1984.

35. A.K. Rao and **D.S. Naidu**, "Singular perturbation method for Kalman filter in discrete time systems," *IEE Proceedings-D: Control Theory and Applications*, Vol. 131, pp. 39–46, 1984.

36. **D.S. Naidu** and A.K. Rao, "Singular perturbation analysis of closed loop discrete optimal control problem," *Optimal Control: Applications & Methods*, Vol. 5, pp. 19–28, 1984.

37. **D.S. Naidu**, "History of microprocessors," *Electronics for You*, Vol. 16, pp. 45–49, 1984.

38. **D.S. Naidu** and A.K. Rao, "Application of singular perturbation method to a steam power system," *Electric Power Systems Research*, Vol. 8, pp. 219–226, 1985.

39. **D.S. Naidu** and M.S. Krishnarayalu, "Discrete modeling of singularly perturbed continuous systems," *International Journal of Modeling and Simulation*, 1985.

40. **D.S. Naidu** and D.B. Price, "Time scale synthesis of a closed-loop discrete optimal control system," *AIAA Journal of Guidance, Control, and Dynamics*, Vol. 10, pp. 417–421, 1987.

41. **D.S. Naidu** and M.S. Krishnarayalu, "Singular perturbation method for initial value problems in two-parameter discrete control systems," *International Journal of Systems Science*, Vol. 18, pp. 2197–2208, 1987.

42. M.S. Krishnarayalu and **D.S. Naidu**, "Singular perturbation method for boundary value problem in two parameter discrete control system," *International Journal of Systems Science*, Vol. 19, pp. 2131–2143, 1988.

43. S. Sen and **D.S. Naidu**, "A time-optimal control algorithm for two-time scale discrete system," *International Journal of Control*, Vol. 47, pp. 1595–1602, 1988.

44. **D.S. Naidu** and D.B. Price, "Singular perturbation and time scale approaches in discrete control systems," *AIAA Journal of Guidance, Control and Dynamics*, Vol. 11, pp. 592–594, 1988.

45. **D.S. Naidu** and D.B. Price, "On the method of matched asymptotic expansions," *AIAA Journal of Guidance, Control, and Dynamics*, Vol. 12, pp. 277–279, 1989.

46. **D.S. Naidu**, "Three-dimensional atmospheric entry problem using method of matched asymptotic expansions," *IEEE Transactions on Aerospace and Electronic Systems*, Vol. 25, pp. 660–667, 1989.

47. **D.S. Naidu**, J.L. Hibey, and C.D. Charalambous, "Fuel-optimal trajectories for aeroassisted coplanar orbital transfer problem," *IEEE Transactions on Aerospace and Electronic Systems*, Vol. 26, pp. 374–381, 1990.

48. **D.S. Naidu**, "Fuel-optimal trajectories for aeroassisted orbital transfer with plane change," *IEEE Transactions on Aerospace and Electronic Systems*, Vol. 27, pp. 361–369, 1991.

49. **D.S. Naidu**, J.L. Hibey, and C.D. Charalambous, "Neighboring optimal guidance for an aeroassisted orbital transfer," *IEEE Transactions on Aerospace and Electronic Systems*, Vol. 29, pp. 656–665, July 1993.

50. **D.S. Naidu**, "Neighboring optimal guidance for aeroassisted noncoplanar orbital transfer," *International Journal of Systems Science*, Vol. 24, pp. 563–575, 1993.

51. C.D. Charalambous, J.L. Hibey, and **D.S. Naidu**, "Neighboring optimal guidance for an aeroassisted orbital transfer under uncertainties," *AIAA Journal of Guidance, Control, and Dynamics*, Vol. 18, pp. 478–485, May-June 1995.

52. **D.S. Naidu** and L. Li, "Optimal control maneuver with aerobraking for Mars mission," *Control: Theory and Advanced Technology (C-TAT)*, Vol. 10, pp. 1619-1642, November 1995.

53. **D.S. Naidu**, and M.A. Lpizra, "Analysis of the Syrian electric power system," *Electric Power Systems Research Journal*, Vol. 38, pp. 51-67, 1996.

54. H.S. Singh, **D.S. Naidu** and K.L. Moore, "Regional pole placement method for discrete-time systems," AIAA Journal of Guidance, Control and Dynamics, Vol. 19, pp. 974-976, July-August, 1996.

55. K.L. Moore, **D.S. Naidu**, R. Yender and J. Tyler, "Gas metal arc welding control: Part I-modeling and analysis", *Nonlinear Analysis: Theory, Methods & Applications*, Vol. 30, pp. 3101-3111, 1997.

56. M.A. Abdelrahman, **D.S. Naidu**, C.D. Charalambous, K.L. Moore, "Finite-time disturbance attenuation control problem for singularly perturbed discrete-time systems", Optimal Control: Applications & Methods, Vol. 19, pp. 137-145, 1998.

57. K.L. Moore, M.A. Abdelrahman and **D.S. Naidu**, "Gas metal arc welding control: Part II-control strategy", *Nonlinear Analysis: Theory, Methods & Applications*, Vol. 35, pp. 85-93, 1999.

58. H.S. Singh, R.H. Brown and **D.S. Naidu**, "Unified approach to linear quadratic regulator with time-scale property", Optimal Control: Applications & Methods, Vol. 22, No. 1, pp. 1-16, January 2001.

59. H.S. Singh, R.H. Brown, **D.S. Naidu**, J.A. Heinen, "Robust Stability of singularly perturbed state feedback systems using unified approach", IEE Proceedings: Control Theory and Applications, Vol. 148, pp. 391-396, November 2001.

60. H. Singh, R.H. Brown, and **D.S. Naidu**, "Discrete-time scale analysis via a new separation ratio and unified approach", International Journal of Systems Science, Vol. 34, No. 6, pp. 403-412, May 2003.

61. **D.S. Naidu** and Y. Imura, "Unified approach for Euler-Lagrange equation arising in calculus of variations", Optimal Control: Applications and Methods (OCAM), Vol. 25, pp. 279-293, November/December 2004.

62. J.C.K. Lai, M.P. Schoen, A. Perez-Gracia, **D.S.Naidu**, and S.W. Leung, "Prosthetic Devices: Challenges and Implications of Robotic Implants and Biological Interfaces", Special Issue on Micro and Nano Technologies in Medicine, Proceedings of the Institute of Mechanical Engineers (IMechE), London, UK, Part H, Journal of Engineering in Medicine, Vol. 221, Nr. 2, pp. 173-183, 2007.

63. Y. Imura and **D.S. Naidu**, "Unified Approach for Open-Loop Optimal Control", Optimal Control Applications and Methods (OCAM), Volume 28, Issue 2, pp. 59-75, March/April 2007. This article was ranked # 5 in the top 20 articles PDF downloads in OCAM 2008.

64. G. Wang, Z. Wang, and **D.S. Naidu**, "On Model-Based Networked Control of Singularly Perturbed Systems", submitted to International Journal of Control (IJC), May 17, 2008.

65. **D.S. Naidu**, "Analysis of Non-dimensional Forms for Singular Perturbation Structures", submitted to the International Journal - Acta Astronautica, 26 November, 2008.

66. **D.S. Naidu**, "Singular Perturbation Analysis of a Flexible Beam Used in Underwater Exploration", submitted to International Journal of Systems Science (IJSS), 28 November 2008.

67. Y. Imura and **D.S. Naidu**, "Unified Approach for Closed-Loop Optimal Control", submitted to IET Control Theory & Applications, United Kingdom, on 19 January 2009.

VI. Peer-Reviewed National or International Conferences or Meetings

68. P.K. Rajagopalan and **D.S. Naidu**, "Application of singular perturbation technique to discrete models of continuous systems," *All India Seminar on Automatic Control*, Calcutta, March, 1977.

69. P.K. Rajagopalan and **D.S. Naidu**, "Application of Vasileva's method to initial value problems," *National Systems Conference*, Ludhiana, September 1978.

70. P.K. Rajagopalan and **D.S. Naidu**, "Application of Vasileva's singular perturbation method to problems in large scale power systems," *International Federation of Automatic Control (IFAC) Symposium on Computer Applications in Large Scale Power Systems*, Vol. 1, pp. 41–49, New Delhi, 1979.

71. **D.S. Naidu** and S. Sen, "Singular perturbation design of a speed control system used in steel industry," *Fourth IASTED International Symposium and Course on Measurement and Control*, Cairo University, Cairo, 1981.

72. **D.S. Naidu** and P.K. Rajagopalan, "Application of Vasileva's singular perturbation method to a problem in biology," *International Conference on Systems Theory and Applications*, Ludhiana, December 1981.

73. **D.S. Naidu** and A.K. Rao, "A singular perturbation method for boundary value problems in discrete systems," *Proceedings of the International Federation of Automatic Control (IFAC) Symposium on Theory and Applications of Digital Control*, Vol. 1, pp. 19–22, New Delhi, January 1982.

74. A.K. Rao and **D.S. Naidu**, "Discrete models for singularly perturbed continuous systems," *ASME International 1983 Bermuda Winter Symposium on Modeling and Simulation*, Bermuda, March 1983.

75. **D.S. Naidu** and A.K. Rao, "Singular perturbations in large scale discrete optimal control problems," *11th IFIP Conference on System Modeling and Optimization*, Copenhagen, July 1983.

76. **D.S. Naidu**, "Basic concepts underlying singular perturbations and time scales in continuous and discrete control systems," *IASTED International Conference*, Halkidiki, Greece, August 1984.

77. **D.S. Naidu** and R. Ravinder, "On three-time scale analysis," *Proceedings of The 24th IEEE Conference on Decision and Control (CDC)*, pp. 81–85, Fort Lauderdale, Florida, December 1985.

78. **D.S. Naidu** and D.B. Price, "Time scale analysis of a digital flight control system," *Proceedings of American Control Conference (ACC)*, pp. 509–510, Seattle, Washington, June 18-20, 1986.

79. **D.S. Naidu** and D.B. Price, "Time scale analysis of a closed loop discrete optimal control system," *Proceedings of AIAA Guidance, Navigation and Control (GNC) Conference*, pp. 138–143, Williamsburg, Virginia, August 18-20, 1986.

80. **D.S. Naidu**, "Characteristics of singular perturbations and time scales in continuous and discrete control systems," *4th International Federation of Automatic Control (IFAC) Symposium on Large Scale Systems: Theory and Applications*, Zurich, Switzerland, August 26-29, 1986.

81. L.W. Taylor, Jr. and **D.S. Naidu**, "Experience in distributed parameter modeling of the spacecraft control laboratory experiment (SCOLE) structure," *AIAA Dynamics Specialists Conference*, Monterey, California, April 6-8, 1987.

82. **D.S. Naidu** and D.B. Price, "On the method of matched asymptotic expansions," *SIAM 1987 Annual Meeting and 35th Anniversary*, Denver, Colorado, October 12-15, 1987.

83. **D.S. Naidu**, "Three-dimensional atmospheric entry problem using method of matched asymptotic expansions," *American Control Conference (ACC)*, Atlanta, Georgia, June 15-17, 1988.

84. **D.S. Naidu**, J.L. Hibey, and C.D. Charalambous, "Optimal control of aeroassisted coplanar orbital transfer vehicles," *Proceedings of The 27th IEEE Conference on Decision and Control (CDC)*, pp. 742–744, Austin, Texas, December 7-9, 1988.

85. **D.S. Naidu**, "Fuel-optimal trajectories for aeroassisted orbital transfer with plane change," *Proceedings of the AIAA Guidance, Navigation, and Control (GNC) Conference*, pp. 1057–1064, Boston, Massachusetts, August 14-16, 1989.

86. **D.S. Naidu**, J.L. Hibey, and C.D. Charalambous, "Neighboring optimal guidance for an aeroassisted orbital transfer vehicle in the presence of modeling uncertainties," *AIAA Guidance, Navigation, and Control (GNC) Conference*, Portland, Oregon, August 1990.

87. **D.S. Naidu**, "Orbital plane change maneuver with aerocruise," *AIAA 29th Aerospace Sciences Meeting and Exhibit*, Reno, Nevada, January 7-10, 1991.

88. K.L. Moore and **D.S. Naidu**, "Linear quadratic regulation using neural networks," *International Joint Neural Networks Conference (IJNNC)*, Seattle, Washington, July 8-12, 1991.

89. **D.S. Naidu**, "Neighboring optimal guidance for aeroassisted noncoplanar orbital transfer," *Proceedings of the AIAA Atmospheric Flight Mechanics (AFM) Conference*, New Orleans, Louisiana, pp. 529–539, August 12-14, 1991.

90. K.L. Moore and **D.S. Naidu**, "Riccati equation solutions using neural networks," *5th Annual INEL Computing Symposium*, Idaho Falls, Idaho, September 10-12, 1991.

91. K.L. Moore and **D.S. Naidu**, "Optimal control using neural networks," —em Proceedings of the Artificial Intelligence (AI) 91: Frontiers in Innovative Computing for Nuclear Industry, Jackson, Wyoming, pp. 180–186, September 15-18, 1991.

92. K.L. Moore and **D.S. Naidu**, "Singular perturbations and time scales in neural networks," *Proceedings of The 30th IEEE Conference on Decision and Control (CDC)*, pp. 2932–2933, Brighton, United Kingdom, December 11-13, 1991.

93. C.D. Charalambous, J.L. Hibey, and **D.S. Naidu**, "Neighboring optimal guidance for an aeroassisted orbital transfer in the presence of modeling and measurement uncertainties," *AIAA 30th Aerospace Science Meeting*, Reno, Nevada, January 5-9, 1992.

94. K.L. Moore and **D.S. Naidu**, "Singular perturbations and time scales applied to the analysis and design of learning in Hopfield network," *6th INEL Computing Symposium*, Idaho Falls, Idaho, September 15–17, 1992.

95. **D.S. Naidu**, "Singular perturbation methodology for stiff differential systems," *IMACS International Symposium on Mathematical Modeling and Scientific Computing*, National Aeronautical Laboratory, Bangalore, India, December 7-11, 1992.

96. **D.S. Naidu** and L. Li, "Orbital plane change maneuver with aerobraking for Mars mission," *The 31st IEEE Conference on Decision and Control (CDC)*, Tucson, Arizona, December 16–18, 1992.

97. K.L. Moore and **D.S. Naidu**, "Arbitrary, stable equilibria for a class of nonlinear systems," *International Federation of Automatic Control (IFAC) World Triennial Congress*, Sydney, Australia, July 18-23, 1993.

98. S. Srinivasan, K.L. Moore, and **D.S. Naidu**, "An approach to learning in Hopfield neural network," *Proceedings of the 1993 American Control Conference (ACC)*, pp. 2892-2893, San Francisco, California, June 2-4, 1993.

99. K.L. Moore and **D.S. Naidu**, "Maximal domains of attraction in a Hopfield neural network with learning," *Proceedings of the 1993 American Control Conference (ACC)*, pp. 2894-2896, San Francisco, California, June 2-4, 1993.

100. K.L. Moore and **D.S. Naidu**, "Artificial neural networks for the adaptive control of large-scale aerospace systems," *4th International Conference on Advances in Communication & Control*, Rhodes, Greece, June 14-18, 1993. (Invited Paper)

101. K.L. Moore, **D.S. Naidu**, and M. Siddaiah, "A real-time adaptive linear quadratic regulator using neural networks," *European Control Conference (ECC)*, Groningen, The Netherlands, June 28-July 1, 1993.

102. K.L. Moore and **D.S. Naidu**, "Adaptive control of aerospace systems using neural networks," *Proceedings of The 32nd IEEE Conference on Decision and Control*, pp. 442–444, San Antonio, Texas, Dec. 15-17 1993.

103. M.A. Lpizra and **D.S. Naidu**, "Stability and optimal control of the Syrian electric power system," *American Power Conference*, Chicago, Illinois, April 25-27, 1994.

104. K.L. Moore, **D.S. Naidu**, and P.V. Charyulu, "A measurement and control engineering laboratory: an interdisciplinary approach," *ASEE Annual Conference and Exposition*, Edmonton, Alberta, Canada, June 26-29, 1994.

105. H. Singh, **D.S. Naidu**, and K.L. Moore, "On regional pole assignment in discrete-time systems using linear quadratic regulator theory," *Proceedings of 1994 American Control Conference (ACC)*, pp. 3480–3481, Baltimore, MD, June 29-July 1, 1994.

106. H. Singh and **D.S. Naidu**, "Regional pole assignment for momentum management controller for the Space Station," *Proceedings of the AIAA Guidance, Navigation, and Control Conference*, pp. 647–652, Scottsdale, Arizona, August 1-3, 1994.

107. C.D. Charalambous, **D.S. Naidu**, and J.L. Hibey, "A General Risk-Sensitivity Minimum Principle for Partially Observed Controlled Diffusions," *1994 SIAM Annual Meeting*, San Diego, CA, July 25-29, 1994.

108. **D.S. Naidu**, C.D. Charalambous, K.L. Moore, and M.A. Abdelrahman,"H∞-Optimal control of singularly perturbed discrete-time systems," *Proceedings of The 33rd IEEE Conference on Decision and Control (CDC)*, Vol. 2, pp. 1706–1711, Lake Buena Vista, Florida, December 14-16, 1994.

109. C.D. Charalambous, **D.S. Naidu**, and K.L. Moore, "Solvable risk- sensitive control problems with output feedback," *Proceedings of The 33rd IEEE Conference on Decision and Control (CDC)*, Vol. 2, pp. 1433-1434, Lake Buena Vista, Florida, December 14-16, 1994.

110. C.D. Charalambous, **D.S. Naidu**, and K.L. Moore, "Risk-sensitive control, differential games, and limiting problems in infinite dimensions," *Proceedings of The 33rd IEEE Conference on Decision and Control (CDC)*, Vol. 3, pp. 2184–2186, Lake Buena Vista, Florida, December 14-16, 1994.

111. C.D. Charalambous, R. Jaber, and **D.S. Naidu**, "Guidance of aeroassisted vehicles by static and dynamic feedback," *AIAA 33rd Aerospace Sciences Meeting and Exhibit*, Reno, Nevada, January 9-12, 1995.

112. H. Singh and **D.S. Naidu**, "Two-time scale analysis using delta operators with application to an aircraft model," *AIAA 33rd Aerospace Sciences Meeting and Exhibit*, Reno, Nevada, January 9-12, 1995.

113. M.A. Abdelrahman, **D.S. Naidu**, C.D. Charalambous, and K.L. Moore, "Application of geometric control theory to boiling water reactors," *9th Power Plant Dynamics, Control & Testing Symposium*, University of Tennessee, Knoxville, May 24-26, 1995.

114. C.D. Charalambous, **D.S. Naidu**, and K.L. Moore, "Connecting risk-sensitive control,differential games, and LQR's: The Infinite Dimensional case," *International Federation of Automatic Control (IFAC) Symposium on Nonlinear Control System Design*, Tahoe City, California, June 26-28, 1995.

115. H.S. Singh, and **D.S. Naidu**, "Eigenvalue placement for two-time scale systems using linear quadratic control theory," Proc. of the 4th IEEE Conference on Control Applications, Albany, NY, September 28–29, pp. 1164-1165, 1995.

116. M.A. Abdelrahman, K.L. Moore, and **D.S. Naidu** "Neural networks for environmental surveillance: an autonomous measurement systems approach," *The 1996 ANS International Topical Meeting on Nuclear Plant Instrumentation, Control and Human Machine Interface Technologies*, The Pennsylvania State University, University Park, PA, May 6-9, 1996.

117. M.A. Abdelrahman, K.L. Moore, and **D.S. Naidu** "Generalized Smith predictor for robust control of nuclear reactors with time delays," *The 1996 ANS International Topical Meeting on Nuclear Plant Instrumentation, Control and Human Machine Interface Technologies*, The Pennsylvania State University, University Park, PA, May 6-9, 1996.

118. **D.S. Naidu**, K.L. Moore, R. Yender, and J. Tyler, "Gas metal arc welding control: part 1-modeling and analysis," Proceedings of the Second World Congress of Nonlinear Analysis, Athens, Greece, July 10-17, 1996. (Invited Session)

119. K.L. Moore, M.A. Abdelrahman and **D.S. Naidu**, "Gas metal arc welding control: part II-control strategy," Proceedings of the Second World Congress of Nonlinear Analysis, Athens, Greece, July 10-17, 1996. (Invited Session)

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IX. Book Reviews

(In addition to being on the Editorial Boards of journals, I contribute regularly to book review feature for these and other journals).

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