

PUBLICATIONS

Desineni *Subbaram* Naidu, PhD, Life Fellow IEEE¹

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- **Name:** Desineni “Subbaram” Naidu
- **Citizenship:** United States of America (USA)
- **Current Positions:**
 - Member, IEEE Press Editorial Board
 - Minnesota Power Jack Rowe Endowed Chair: **Emeritus**
 - Professor of Electrical Engineering: **Emeritus**
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Published/Presented over 260 items in journals/books and conferences) including

- 9 books: 6 authored books (2 research monographs, 4 reference books, and 1 **senior graduate level text book (USA Edition, 2003; and Indian Special Edition, 2015; International Edition 2016) along with solutions manual**), 1 edited book (with two contributed chapters), and 2 edited books,
- 8 articles/chapters in books,
- over 80 peer reviewed, archival journal articles,
- over 170 peer reviewed conference publications,
- over 110 research reports, and
- over 110 book reviews published in refereed journals and web media such as Amazon.com.

I. Ph.D. Thesis

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

¹The Institute of Electrical and Electronics Engineers (IEEE), “the world’s largest professional association for Advancing Technology for Humanity”. IEEE was formed by the merger (on 01 January 1963) of The American Institute of Electrical Engineers (AIEE), founded in 1884, a United States based organization of electrical engineers, with the Institute of Radio Engineers (IRE), founded in 1912, a United States based organization of radio/electronic engineers. The IEEE, in the year 2024, celebrated 140 years of serving as “the professional home for the engineering and technology community worldwide.”

II. Research Monographs and Books including Edited Books/ Volumes

1. C.-H. Chen and **D.S. Naidu**, *Fusion of Hard and Soft Control Strategies for the Robotic Hand*, Advanced Study/Research Book, IEEE Press-Wiley (IEEE Press Series on *Systems Science and Engineering, Systems, Man and Cybernetics Society*), Hoboken, NJ, October 2017. From the back cover page of the book, “An in-depth review of hybrid control techniques for smart prosthetic hand technology by two of the worlds pioneering experts in the field”.
2. Heinz Unbehauen, **D.Subbaram Naidu**, Hugues Garnier and Zidong Wang: *Series Co-Editors*, and Ganti Prasada Rao: *Series Editor*, *Nonlinear Stochastic Control and Filtering with Engineering-oriented Complexities*, by Guoliang Wei, Zidong Wang, Wei Qian, *Engineering Systems and Sustainability Series*, CRC Press, A Taylor & Francis Group, London, UK, August 2016.
3. Andrew P. Sage, Heinz Unbehauen, **D.S. Naidu** and Hugues Garnier: *Series Co-Editors*, and Ganti Prasada Rao: *Series Editor*, *Multi-Stage Flash Desalination: Modeling, Simulation and Adaptive Control*, by Abraha Woldai, *Engineering Systems and Sustainability Series*, CRC Press, A Taylor & Francis Group, London, UK, July 2015.
4. J.R. Acharya, F. Molinari, T. Tamura, **D.S. Naidu**, and J.S. Suri, Editors, *Distributed Diagnosis and Home Healthcare (D2H2): Volume 2*, American Scientific Publishers, Los Angeles, USA, 26650 The Old Road, Valencia, California 91381-0751, USA, 2011.
<http://www.aspbs.com/main.html>.
Professor Naidu and his co-workers Contributed two chapters this edited volume.
5. **D.S. Naidu**, *Optimal Control Systems*, Graduate Level Textbook, CRC Press², Taylor & Francis Group, Boca Raton, FL, 2003, along with a Solutions Manual.
<http://www.crcpress.com>

This book was 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. An updated version is under preparation. and the book has been used/adapted by over 130 institutions within United States and the rest of the world: Brazil, Canada, France, India, Japan, New Zealand, Norway, Poland, Sweden, Thailand, United Arab Emirates (UAE), United Kingdom (UK), etc.

Special Indian Edition of the original book, *Optimal Control Systems*, by D.S. Naidu, was published by Taylor and Francis India, New Delhi, India, **2015**.

International Edition of the original book, *Optimal Control Systems*, by D.S. Naidu, was published by Taylor and Francis India, New Delhi, India, **2016**.

²The CRC Press was founded as the Chemical Rubber Company (CRC) in 1903, in 1973 the company changed its name to CRC Press, Inc, and in 2003, CRC became part of Taylor & Francis (established in 1783), which in 2004 became part of the UK publisher Informa.

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

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**, *Aeroassisted Orbital Transfer: Guidance and Control Strategies*, Lecture Notes (Research Monograph) in Control and Information Sciences, Vol. 188, Springer-Verlag, London, UK, 1994.
8. **D.S. Naidu**, *Singular Perturbation Methodology in Control Systems*, IEE Control Engineering Series, Vol. 34, Peter Peregrinus Limited, Stevenage Herts, UK, 1988.
9. **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.
This book was reviewed in IFAC Journal Automatica, Vol. 23, pp. 679-680, 1987 and SIAM Review, pp. 664-665, 1988.

III. Articles/Chapters in a Book

10. **D.S. Naidu**, *Control Theory*, Chapter 8 in *Resilient Control Architectures and Power Systems*, Craig Rieger (Editor), Ronald Boring (Editor), Brian Johnson (Editor), Timothy McJunkin (Editor), ISBN: 978-1-119-66042-2, Wiley-IEEE Press, Hoboken, NJ, USA, pp. 113-126, 2022.
11. H.M. Nguyen and **D.S. Naidu**, EVOLUTION OF WIND TURBINE CONTROL SYSTEMS, a book chapter submitted (by invitation “In view of your wide experience in the field of Renewable Energy Systems Education” in Thermal to Mechanical energy Conversion: Engines and Requirements, [Ed. UNESCO³-EOLSS⁴ Joint Committee], in Encyclopedia of Life Support Systems(EOLSS), Developed under the Auspices of the UNESCO, EOLSS Publishers, Oxford ,UK, 2013 [<http://www.eolss.net>].
12. H.M. Nguyen and **D.S. Naidu**, Optimal Power Conversion of Standalone Wind Energy Conversion Systems Using Fuzzy Adaptive Control, in IAENG⁵ Transactions on Engineering Technologies, Lecture Notes in Electrical Engineering (Special Issue of the World Congress on Engineering and Computer Science (WCECS), 2012), Editors: H.K. Kim and S.-I. Ao and M.A. Amouzegar and B.B. Rieger, Vol. 247, Chapter 5, pp.51-66, Springer Science+Business Media, Dordrecht, Germany, 2012. <http://www.springer.com/us/book/9789400768178>

³United Nations Educational, Scientific and Cultural Organization (UNESCO)

⁴Encyclopedia of Life Support Systems (EOLSS), “the world’s largest publication developed under the auspices of the UNESCO as an archival source of reference in a great variety of subjects relevant to sustainable life on this planet”

⁵International Association of Engineers

13. **D.S. Naidu** and C.-H. Chen, “Automatic Control Techniques for Smart Prosthetic Hand Technology: An Overview”, Chapter 12 in *Distributed Diagnosis and Home Healthcare (D₂H₂)*, Volume 2, edited by U.R. Acharya, F. Molinari, T. Tamura, **D.S. Naidu**, and J.Suri, American Scientific Publishers, Stevenson Ranch, CA, pp. 201-223, 2011.
14. **D.S. Naidu** and V.K. Nandikolla, “Fusion of Hard and Soft Control Strategies for a Circulatory System arising in Biomedical Engineering”, Book Chapter 11 in *Distributed Diagnosis and Home Healthcare (D₂H₂): Volume 2*, Editors: J.R. Acharya, F. Molinari, T. Tamura, **D.S. Naidu**, and J.S. Suri, American Scientific Publishers, Stevenson Ranch, CA, pp. 189-200, 2011.
15. **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).
16. **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.
17. 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.

V. Peer-Reviewed, Archival Journal Articles

18. Kumar, A., Aelgani, V., Vohra, R., **D. S. Naidu**, et al. Artificial intelligence bias in medical system designs: a systematic review. *Multimed Tools Appl* (Published online 22 July 2023). <https://doi.org/10.1007/s11042-023-16029-x>
19. Khanna, N.N., et-al, **D.S. Naidu**, “Economics of Artificial Intelligence in Healthcare: Diagnosis vs. Treatment”, *Healthcare* 2022, 10, 2493, 09 December 2022. <https://doi.org/10.3390/healthcare10122493>.
20. Khanna, N.N., et-al, **D.S. Naidu**, “Cardiovascular/Stroke Risk Stratification in Diabetic Foot Infection Patients Using Deep Learning-Based Artificial Intelligence: An Investigative Study”, *Journal of Clinical Medicine*, November(11), 2022.
21. Suri, J.S. et. al, **D.S. Naidu**, “Deep Learning Paradigm for Cardiovascular Disease/Stroke Risk Stratification in Parkinsons Disease Affected by COVID-19: A Narrative Review. *Diagnostics* 2022, 12, 1543. <https://doi.org/10.3390/diagnostics12071543>
22. Suri, J.S. et al **D. S. Naidu**, “COVLIAS 2.0-cXAI: Cloud-Based Explainable Deep Learning System for COVID-19 Lesion Localization in Computed Tomography Scans, *Diagnostics* 2022, 12, 1482. <https://doi.org/10.3390/diagnostics12061482>
23. Suri. J.S. et.al, **D.S. Naidu**, “COVLIAS 1.0 Lesion vs. MedSeg: An Artificial Intelligence Framework for Automated Lesion Segmentation in COVID-19 Lung Computed Tomography Scans, *Diagnostics Journal*, Vol., 12, Nr. 5, Article Number 1283, 2022. URL = <https://www.mdpi.com/2075-4418/12/5/1283>, ISSN = 2075-4418, DOI = 10.3390/diagnostics12051283.
24. J. S. Suri et al. and **D. S. Naidu**, “Five Strategies for Bias Estimation in Artificial Intelligence-based Hybrid Deep Learning for Acute Respiratory Distress Syndrome COVID-19 Lung Infected Patients using AP(ai)Bias 2.0: A Systematic Review,” in *IEEE Transactions on Instrumentation and Measurement*, May 2022 doi: 10.1109/TIM.2022.3174270.
25. Munjral, S., et.al, and **D.S. Naidu**, “Cardiovascular Risk Stratification in Diabetic Retinopathy via Atherosclerotic Pathway in COVID-19/non-COVID-19 Frameworks using Artificial Intelligence Paradigm: A Narrative Review, *JOURNAL = Diagnostics*, VOLUME = 12, NUMBER = 5, ARTICLE-NUMBER = 1234, YEAR = 2022. URL = <https://www.mdpi.com/2075-4418/12/5/1234>, DOI = 10.3390/diagnostics12051234.
26. Suri, J.S., et al, and **D.S. Naidu**, “COVLIAS 1.0 vs. MedSeg: Artificial Intelligence-Based Comparative Study for Automated COVID-19 Computed Tomography Lung Segmentation in Italian and Croatian Cohorts”, *Special Issue: Spectral CT Techniques and Functional Applications in Disease Diagnosis*, *Diagnostics* 2021, 11, 2367. <https://doi.org/10.3390/diagnostics11122367>
27. J. Suri et al. and **D.S. Naidu**, ”Inter-Variability Study of COVLIAS 1.0: Hybrid Deep Learning Models for COVID-19 Lung Segmentation in Computed Tomog-

- raphy,” in *Diagnostics*, 01 November 2021.
<https://doi.org/10.3390/diagnostics11112025>
28. J. Suri et al. and **D.S. Naidu**, ”Systematic Review of Artificial Intelligence in Acute Respiratory Distress Syndrome for COVID-19 Lung Patients: A Biomedical Imaging Perspective,” in *IEEE Journal of Biomedical and Health Informatics*, *IEEE Journal of Biomedical and Health Informatics*, Volume: 25, Issue: 11, Nov. 2021, doi: 10.1109/JBHI.2021.3103839.
 29. V. Viswanathan, et-al., and **D.S. Naidu**, Suri JS. “Bidirectional link between diabetes mellitus and coronavirus disease 2019 leading to cardiovascular disease: A narrative review. *World J Diabetes(WJD)*, Vol.12(3), pages 215-237, March 15, 2021.
doi: 10.4239/wjd.v12.i3.215. PMID: 33758644; PMCID: PMC7958478.
 30. J.S. Suri et-al. and **D.S.Naidu**, “A narrative review on characterization of acute respiratory distress syndrome in COVID-19-infected lungs using artificial intelligence”, *Computers in Biology and Medicine (Elsevier)*, volume = 130, pages 104-210, 2021. doi = <https://doi.org/10.1016/j.compbimed.2021.104210>,
 31. L. Saba, et.al., **D.S.Naidu**, et.al., “Six artificial intelligence paradigms for tissue characterization and classification of non-COVID-19 pneumonia against COVID-19 pneumonia in computed tomography lungs”, *International Journal of Computer Assisted Radiology and Surgery*, Received: 29 August 2020/Accepted: 15 January 2021. <https://doi.org/10.1007/s11548-021-02317-0>
 32. M. Agarwal, et.al., **D.S. Naidu**, and J.S. Suri, “A Novel Block Imaging Technique Using Nine Artificial Intelligence Models for COVID-19 Disease Classification, Characterization and Severity Measurement in Lung Computed Tomography Scans on an Italian Cohort”, *Journal of Medical Systems (Springer)*, pages 1-30, Received, 17 November 2020, Accepted 06 January 2021, Published 26 January 2021. <https://doi.org/10.1007/s10916-021-01707-w>
 33. V. Viswanathan, et.al., **D.S. Naidu**, et.al., “Bidirectional link between Diabetes Mellitus and COVID-19 leading to cardiovascular disease: A Narrative Review”, *World Journal of Diabetes*, Baishideng Publishing Group (BPG), Pleasanton, CA, 20 December 2020 (in press)
 34. J.S. Suri, et. al, **D.S. Naidu**, et.al., “Integration of cardiovascular risk assessment with COVID-19 using artificial intelligence”, *Reviews in Cardiovascular Medicine*, IMR press, Wan Chai, Hong Kong, Vol. 21(4), pp. 541560, published online on 30 December, 2020.
 35. J. Suri, et. al. **D.S. Naidu**, et. al., “COVID-19 Pathways for Brain and Heart Injury in Comorbidity Patients: The Role of Imaging and Artificial Intelligence-based Tissue Characterization for COVID severity Classification: A Review”, *Computers in Biology and Medicine: An International Journal*, Elsevier, Amsterdam, The Netherlands, Vol., 124, pp. 1039-60, September 2020.
 36. G.A. Kurina, M.G. Dmitriev, and **D.S. Naidu**, “DISCRETE SINGULARLY PERTURBED CONTROL PROBLEMS (A SURVEY)”, *Dynamics of Continuous, Discrete and Impulsive Systems (DCDIS) Series B: Applications & Algo-*

- rithms*, vol. 24, pp. 335-370, 2017 (*Survey paper with 157 references and collaborated with colleagues from Russia*).
37. Y. Zhang, **D.S. Naidu**, C. Cai and Y. Zou, “Composite control of a class of nonlinear singularly perturbed discrete-time systems via D-SDRE, *International Journal of Systems Science (IJSS)*, Vol 47, pp. 2632–2641, January 2016.
 38. C. Potluri, M. Anugolu, **D.S. Naidu**, M.P. Schoen, S.C. Chiu, “Real-time embedded frame work for sEMG skeletal muscle force estimation and LQG control algorithms for smart upper extremity prostheses”, *Engineering Applications of Artificial Intelligence*, Elsevier, Volume 46, Part A, Pages 6781, November 2015. (doi:10.1016/j.engappai.2015.08.007)
 39. A. Khamis, **D.S. Naidu** D. Zydek, “Nonlinear Position Control of DC Motor Using Finite-Horizon State Dependent Riccati Equation”, H. Selvaraj et al. (eds.), *Progress in Systems Engineering: Proceedings of the Twenty-Third International Conference on Systems Engineering, Advances in Intelligent Systems and Computing*, Vol. 1089, Springer International Publishing Switzerland pp. 34-39, 2015.
 40. A. Khamis, **D.S. Naidu** D. Zydek, “Nonlinear Optimal Tracking With Incomplete State Information Using State Dependent Riccati Equation”, H. Selvaraj et al. (eds.), *Progress in Systems Engineering: Proceedings of the Twenty-Third International Conference on Systems Engineering, Advances in Intelligent Systems and Computing*”, Vol. 1089, Springer International Publishing Switzerland pp. 27-33, 2015.
 41. C.-H. Chen and **D.S. Naidu**, “A Modified Optimal Control Strategy for a Five-Finger Robotic Hand”, *International Journal of Robotics and Automation Technology (IJRAT)*, Vol. 1, pp. 3-10, November 2014. (Received on 23-06-2014; Accepted on 16-07-2014; Published on 18-11-2014)
<http://www.avantipublishers.com/downloads/ijratv1n1a1/>
 42. A. Khamis, **D.S. Naidu**, and A.M. Kamel, “Nonlinear Finite-Horizon Regulation and Tracking for Systems with Incomplete State Information Using Differential State Dependent Riccati Equation”, *International Journal of Aerospace Engineering*, Vol. 2014, Article ID 178628, 12 pages, 2014.
doi:10.1155/2014/178628
 43. S. Jaison, **D.S. Naidu**, D. Zydek, “Time Scale Analysis and Synthesis of Deterministic and Stochastic Wind Energy Conversion Systems”, *WSEAS TRANSACTIONS on SYSTEMS and CONTROL*, Vol. 9, September, pp. 189-198, 2014.
<http://wseas.org/cms.action?id=4073>
 44. Y. Zhang, H. Nguyen, **D.S. Naidu**, Y. Zou, and C. Cai, “Time Scale Analysis and Synthesis for Model Predictive Control”, *WSEAS TRANSACTIONS on SYSTEMS and CONTROL*, Vol. 9, pp. 130-139, 2014
 45. Y. Zhang, **D.S. Naidu**, C. Cai and Y. Zou, “Singular Perturbations and Time Scales in Control Theory and Applications: An Overview 2002-2012”, *International Journal of Information Systems Sciences (IJISS)*, Vol 9, Nr. 1, pp. 1-36, 2014. (Invited Survey Paper of 36 pages and 513 references)

46. C. Potluri, M. Anugolu, M.P. Schoen, **D.S. Naidu**, A. Urfer, and Steve Chiu, “Hybrid Fusion of Linear, Non-Linear and Spectral Models for the Dynamic Modeling of sEMG and Skeletal Muscle Force: An Application to Upper Extremity Amputation”, *Computers in Biology and Medicine: An International Journal* (Elsevier), Vol. 43, Issue 11, pp. 1815-1826, November, 2013.
47. C.-H. Chen and **D.S. Naidu**, “Hybrid control strategies for a five-finger robotic hand”, *Biomedical Signal Processing and Control*, Vol. 8, Issue 4, pp. 382-390, July 2013. (Received 18 August 2012, Received in revised form 8 February 2013, Accepted 11 February 2013, Available online 16 March 2013)
48. C.-H. Chen, **D.S. Naidu**, M.P. Schoen “Adaptive Control for a Five-Fingered Prosthetic Hand with Unknown Mass and Inertia”, *WSEAS⁶ Transactions on Systems*, Vol. 10, Issue 5, pp. 148-161, May 2011
49. **D.S. Naidu** and C.R. Rieger, “Advanced Control Strategies for HVAC&R Systems - An Overview: Part II: Soft and Fusion Control”, *International Journal HVAC&R Research*, submitted on 31 March 2010, revision suggested on 21 April 2010, revision submitted on 27 May 2010, finally accepted on December 8, 2010 and appeared in Volume 17, Number 2, pp. 144-158, April 2011.
50. **D.S. Naidu** and C.R. Rieger, “Advanced Control Strategies for HVAC&R Systems - An Overview: Part I: Hard Control”, *International Journal HVAC&R Research*, submitted on 31 March 2010, revision suggested on 21 April 2010, revision submitted on 27 May 2010, finally accepted on November 01, 2010, and published on 18 February 2011 and appeared in Volume 17, Number 1, pp. 2-21, February 2011.
51. **D.S. Naidu**, T. Fernando, and K. Renee Fister, Editors for “Special Issue on Optimal control in Diabetes”, *Optimal Control: Applications & Methods*, vol 32, Nr 2, pp 181-184 and 185-252, March-April, 2011. (Note: 6 papers were selected for review and 4 papers were finally accepted for publication)
52. **D.S. Naidu**, “Singular Perturbation Analysis of a Flexible Beam Used in Underwater Exploration”, submitted 28 November 2008, revised 26 August 2009, accepted on 09 May 2010, and published in the *International Journal of Systems Science (IJSS)*, Vol. 42, No. 1, pp. 183-194, January 2011.
53. Y. Imura and **D.S. Naidu**, “Unified methodology for Closed-Loop Optimal Control Problem”, submitted on 02 August 2009, and accepted on 04 November, 2009, and finally appeared in the *International Journal of Information & Systems Science (IJISS)*, Volume 6, Number 2, pp. 155-168, 2010.
54. P. Kumar, C. Potluri, A. Sebastian, S. Chiu, A. Urfer, **D.S. Naidu**, M.P. Schoen, “Adaptive Multi Sensor Based Nonlinear Identification of Skeletal Muscle Force”, *WSEAS⁷ Transactions on Systems*, Vol. 9, Issue 10, pp. 1050-1062, October 2010.
55. C.R. Rieger and **D.S. Naidu**, “Demonstration of a hybrid intelligent control strategy for critical building HVAC systems”, *Control and Intelligent Systems*, Vol. 38, No. 2, pp. 110-119, April-June, 2010.

⁶World Scientific and Engineering Academy and Society

⁷World Scientific and Engineering Academy and Society

56. **D.S. Naidu**, “Analysis of Non-dimensional Forms of Singular Perturbation Structures for Hypersonic Vehicles”, submitted on 26 November 2008, revised on 02 June, 2009, and accepted on 17 July, 2009, available online on 18 August 2009, and published (in print) in the International Academy of Astronautics Journal - Acta Astronautica, Vol. 66, Nr. 3-4, pp. 577-586, February-March 2010.
57. 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 down loads in OCAM 2008.
58. 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. **Ranked 1 of 20** in *Top 20 Articles, in the Domain of Article 17385571, Since its Publication (2007)* according to *BioMedLib: "Who is Publishing in My Domain?"* as on 2014-09-02, and as on 2015-03-17.
59. **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.
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**, “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 IndicatorsSM*.
62. **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). (<https://www.aiaa.org/JournalDetail.aspx?id=3436>)
63. 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.
64. 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.
65. 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.

66. 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.
67. 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.
68. 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.
69. **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.
70. **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.
71. 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.
72. **D.S. Naidu**, "Neighboring optimal guidance for aeroassisted noncoplanar orbital transfer," *International Journal of Systems Science*, Vol. 24, pp. 563-575, 1993.
73. **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.
74. **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.
75. **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.
76. **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.
77. **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.
78. **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.
79. 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.
80. 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.

81. **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.
82. **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.
83. **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.
84. **D.S. Naidu** and M.S. Krishnarayalu, "Discrete modeling of singularly perturbed continuous systems," *International Journal of Modeling and Simulation*, 1985.
85. **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.
86. 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.
87. 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.
88. **D.S. Naidu**, "History of microprocessors," *Electronics for You*, Vol. 16, pp. 45–49, 1984.
89. 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.
90. **D.S. Naidu** and S. Sen, "Singular perturbation method for the transient analysis of a transformer," *Electric Power Systems Research*, Vol. 5, No. 4, pp. 307–313, December 1982.
91. **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.
92. 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.
93. 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.
94. 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.
95. 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.

96. **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.
97. 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.
98. 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.
99. **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, Part D, Number 1, pp. 1–6, January 1980.
100. **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.

VI. Peer-Reviewed National or International Conferences or Meetings

101. S. Paul, S. Islam, **D. S. Naidu** and M. Abu Hanif Pramanik, "Nonlinear Optimal Regulation of SIR Epidemic Model via Finite-Horizon SDRE," 2023 26th International Conference on Computer and Information Technology (ICCIT), Cox's Bazar, Bangladesh, December 13-15, 2023, pp. 1-6, doi: 10.1109/ICCIT60459.2023.10441454.
102. M. Wasim and **D.S. Naidu**, "Lyapunov Function Construction using Constrained Least Square Optimization", IECON 2022 48th Annual Conference of the IEEE Industrial Electronics Society, 2022, pp. 1-5, Brussels, Belgium, October 17-20, 2022. doi: 10.1109/IECON49645.2022.9968442)
103. O. Egbue, **D. S. Naidu** and C. Uko, "Electric Vehicles and Smart Grid Integration: Analysis of Battery Degradation Cost," 2022 7th International Conference on Smart and Sustainable Technologies (SpliTech), Split and Bol, Croatia, 5 - 8 July 2022, pp. 1-4, doi: 10.23919/SpliTech55088.2022.9854357.
104. Bipasha Kundu, and **D.S. Naidu**, Classification and Feature Extraction of Different Hand Movements from EMG Signal using Machine Learning based Algorithms, International Conference on Electrical, Communication, and Computer Engineering (ICECCE), Switzerland
105. Charles Uko, Ona Egbue, and **D.S. Naidu**, Economic Dispatch of a Smart Grid with Vehicle-to-Grid Integration, In Proceedings of the 2020 IEEE Green Technologies Conference (GreenTech), Sheraton Downtown, Oklahoma City, Oklahoma, USA, April 1-3, 2020, pp. 148152, 2020. doi: 10.1109/GreenTech46478.2020.9289782.
106. M. K. P. Khan, **D. S. Naidu** and O. Egbue, "Advanced Tracking Strategies for Charging Electric Vehicle Batteries," 2020 IEEE Power & Energy Society Innovative Smart Grid Technologies Conference (ISGT), Washington, DC, USA, 17-24, February, 2020, pp. 1-5, doi: 10.1109/ISGT45199.2020.9087655. Research output from our NSF Project (Sept. 2017 to Aug. 2020).
107. **D.S. Naidu**, Sudipta Paul, Ahmed Khamis and Craig Rieger, "A Simplified SDRE Technique for Finite Horizon Tracking Problem in Optimal Control Systems", *Proceedings of the 6th Indian Control Conference (ICC)*, Indian Institute of Technology (IIT), Hyderabad, India, pp. 170-175, 18-20 December 2019.
108. Sudipta Paul and **D.S. Naidu**, "Nonlinear Optimal Tracking Control of Wind Energy Conversion System in Partial Load Region", *51st North American Power Symposium (NAPS)*, IEEE Power & Energy Society -Technical Co-Sponsor, Wichita State University Wichita, KS, pp. 1-6, October 13-15, 2019.
109. **D.S. Naidu**, Sudipta Paul and Craig R. Rieger, "A Simplified SDRE Technique for Regulation in Optimal Control Systems", *Proceedings of the 2019 IEEE International Conference on Electro Information Technology (EIT)*, May 20-22, 2019, Brookings, South Dakota (SD), USA, pp. 329-332, 2019.
110. S. H. Jaison and **D.S. Naidu**, "Integration of Life Sciences and Engineering Optimal Control of HIV using Time Scales, *Proceedings of the IEEE 1st Global Conference on Life Sciences and Technologies (LifeTech 2019)*, Osaka, Japan, pp. 1-3, 12-14 March 2019. The paper was presented by Professor D.S. Naidu.

111. Ibrahim Baz Khallouf and **D.S. Naidu**, “Advanced Control Strategies for the Robotic Hand”, *Proceedings of the 2018 IEEE 14th International Conference on Control and Automation (ICCA)*, June 12-15, 2018, Anchorage, Alaska, USA, pp. 698-703, 2018.
112. Neng Wan and **D.S. Naidu**, “Synchronization of Singularly Perturbed Systems with Time Scales”, *21st International Conference on Circuits, Systems, Communications and Computers (CSCC 2017)*, Agia Pelagia Beach, Crete Island, Greece, July 14-17, 2017. Not presented due to declining of the request (by Dr. Naidu) of international travel by the College Dean, Univ. of Minnesota Duluth (UMD), April 27, 2017.
113. Neng Wan, **D.S. Naidu**, Ming Liu, Ligang Wu, and Weiran Yao, “Adaptive Sliding Mode Control for Spacecraft Rendezvous in Near-Circular Orbits with Time-Varying Saturation Constraint”, *2017 American Control Conference (ACC)*, May 24-26, Seattle, WA, USA, Proceedings of the 2017 ACC, pp. 5812-5817, 2017.
114. Ona Egbue, **D.S. Naidu** and Peter Peterson, “The Role of Microgrids in Enhancing Macrogrid Resilience”, *2016 International Conference on Smart Grid and Clean Energy Technologies*, University of Electronic Science and Technology of China, Chengdu, China, pp. 125-129, 19-22, October, 2016. Paper presented by Professor D.S. Naidu.
115. A. Khamis, and **D.S. Naidu**, “Recent Results on Nonlinear, Optimal Regulation and Tracking: Theory and Applications”, *9th WSEAS International conference on Circuits, Systems, and Signals (CSS'16)*, Dubrovnik, Croatia, 28-30, September, 2016. Paper presented by Professor D.S. Naidu.
116. A. Khamis, C.-H. Chen and **D.S. Naidu**, “Tracking of a Robotic Hand via SD-DRE and SD-DVE Strategies”, *UKACC (United Kingdom Automatic Control Council) International Conference on Control (CONTROL 2016)*, Belfast, Northern Ireland, UK, Aug. 31-Sept. 2, 2016. Paper presented by Professor D.S. Naidu.
117. T. McJunkin, C.G. Rieger, A. Rege, S.K. Biswas, M. Haney, M.J. Santora, B.K. Johnson, R.L. Boring, **D.S. Naidu**, and J.F. Gardner, “Multidisciplinary Game-based Approach for Generating Student Enthusiasm for Addressing Critical Infrastructure Challenges”, Paper ID #15948, *ASEE⁸ 123rd Annual Conference & Exposition*, New Orleans, Louisiana, June 26-29, 2016.
118. Kelli Fuchs and Austin Carter (Senior Design Team, EE Dept, Univ. of Minnesota Duluth - UMD) and Faculty Advisor **D.S. Naidu**, “The Open Gauntlet”, Student Design Showcase (“to promote and publicize excellence in medical device design by teams of undergraduate and graduate students conducted as part of their course work.”), *15th Annual Design of Medical Devices Conference* (“The world’s largest medical device conference”), held at The Commons Hotel & McNamara Alumni Center, the University of Minnesota Twin Cities Campus, April 11, 12-14, 2016.
119. A. Khamis, H. Nguyen and **D.S. Naidu**, “Nonlinear Optimal Control of Wind Energy Conversion Systems With Incomplete State Information Using SD-DRE”,

⁸ASEE: American Society of Engineering Education

- 3rd International Conference on Control, Decision and Information Technologies (CoDIT16)*, pp. 1-6, Saint Julian's, Malta, April 6-8, 2016. Paper presented by Professor D.S. Naidu.
120. A. Tamimi, **D.S. Naidu**, and S. Kavianpour, "An Intrusion Detection System Based on NSGA-II Algorithm", *Fourth International Conference on Cyber Security, Cyber Welfare, and Digital Forensic*, Sampoerna University, Indonesia, October 29 - 31, 2015.
 121. A. Khamis, H.M. Nguyen and **D.S. Naidu**, "Nonlinear, Optimal Control of Wind Energy Conversion Systems Using Differential SDRE", *Proceedings of 8th International Symposium on Resilient Control Systems at Resilience Week-2015*, Philadelphia, PA, pp. 86-91, August 18-20, 2015. Paper presented by Professor D.S. Naidu.
 122. S. Jaison, J.P. Gentle, and **D.S. Naidu**, "Time Scale Analysis and Synthesis for Electrical Transmission Lines in a Smart Grid", *Proceedings of the IEEE Conference on Technologies for Sustainability*, Ogden, UT, pp. 103-108, July 30-Aug 1, 2015.
 123. T.R. McJunkin, C.G. Rieger, B.K. Johnson, **D.S. Naidu**, J.F. Gardner, L.H. Beaty, I. Ray, K. L. Le Blanc, M. Guryan, "Interdisciplinary Education through Edu-tainment: Electric Grid Resilient Control Systems Course", Proc. of the 122nd ASEE Annual Conference and Exposition, Seattle, WA, June 14-17, 2015.
 124. S. Jaison, **D.S. Naidu** and J.P. Gentle, "Divide and Conquer Strategies for Enhanced Resiliency in Electrical Transmission Lines", *Proc. of the 6th International Symposium on Resilience Engineering*, 22-25, June 2015, Lisbon, Portugal, pp. 1-6, 2015. Paper presented by Professor D.S. Naidu.
 125. G. A. Kurina, M.G. Dmitriev and **D.S. Naidu**, "Discrete singularly perturbed optimal control problems", *Proceedings of The 13th Viennese Workshop on Optimal Control and Dynamic Games*, Vienna, Austria, May 13-16, 2015.
 126. Ahmed Khamis and **D.S. Naidu**, "Experimental Validation for Nonlinear Estimation and Tracking Using Finite-Horizon SDRE", *Proceedings of the 2014 International Conference on Power, Control and Embedded Systems (ICPCES)*, 26-28 December 2014, Allahabad, India, pp. 30-35, December 2014. Paper presented by Professor Naidu.
 127. Yan Zhang, **D.S. Naidu**, Chenxiao Cai, Yun Zou "Time Scale Analysis and Synthesis for Model Predictive Control under Stochastic Environments", *Proceedings of the 7th International Symposium on Resilient Control Systems (ISRCS)*, August 19-21, 2014, Denver, CO, pp. 1-6, 2014. **Awarded as the "Best Symposium Paper" in the International Symposium on Resilient Control Systems at Resilient Week-2014, Denver, Co August 19-21, pp. 1-6, August 2014.** Paper presented by Professor D.S. Naidu.
 128. Yan Zhang, **D.S. Naidu**, Chenxiao Cai, Yun Zou "Nonlinear Model Predictive Control for Regulation of a Class of Nonlinear Singularly Perturbed Discrete-time Systems", *Proceedings of the 7th International Symposium on Resilient Control Systems (ISRCS)*, August 19-21, 2014, Denver, CO, pp. 1-6, August 2014. Paper presented by Professor D.S. Naidu.

129. A. Khamis, and **D.S. Naidu**, “Real-Time Algorithm for Nonlinear Systems With Incomplete State Information Using Finite-Horizon Optimal Control Technique”, *Proceedings of the 7th International Symposium on Resilient Control Systems (ISRCS)*, August 19-21, 2014, Denver, CO, pp. 1-6, August 2014. Paper presented by Professor D.S. Naidu.
130. E. Archibong, **D.S. Naidu**, “Time Scale Analysis and Synthesis for Unmanned Aerial Vehicles(UAVs)”, *Proceedings of the 7th International Symposium on Resilient Control Systems (ISRCS)*, August 19-21, 2014, Denver, CO, pp. 1-6, August 2014.
131. Yan Zhang, D.S. Naidu and C. Cai, “Stability Analysis and Control of Lure Singularly Perturbed Uncertain Systems”, *Proceedings of the 33rd Chinese Control Conference (CCC)*, July 28-30, 2014, Nanjing, China, pp. 6090-6094, July 2014.
132. A. Khamis, **D.S. Naidu**, Zydek, D., “Nonlinear Position Control of DC motor Using Finite-Horizon State Dependent Riccati Equation (SDRE)”, *23rd International Conference On Systems Engineering (ICSEng 2014)*, Las Vegas, NV, USA, December 2014.
133. A. Khamis and **D.S. Naidu**, “Nonlinear Optimal Tracking For Missile Gimbaled Seeker Using Finite-Horizon State Dependent Riccati Equation”, *Proceedings of the 4th Annual IEEE International Conference on CYBER Technology in Automation, Control, and Intelligent Systems (IEEE-CYBER 2014)*, Hong Kong, China, 4-7 June 2014, pp. 88-93, June 2014. Paper presented by Professor D.S. Naidu.
134. A. Khamis and **D.S. Naidu**, “Nonlinear Optimal Stochastic Regulator Using Finite-Horizon State Dependent Riccati Equation”, *Proceedings of the 4th Annual IEEE International Conference on CYBER Technology in Automation, Control, and Intelligent Systems (IEEE-CYBER 2014)*, Hong Kong, China, 4-7 June 2014, pp. 82-87, June 2014. Paper presented by Professor D.S. Naidu.
135. A. Khamis and **D.S. Naidu**, “Experimental Validation for Real Time Control of DC Motor Using Novel Finite-Horizon Optimal Technique”, *Proceedings of the 4th Annual IEEE International Conference on CYBER Technology in Automation, Control, and Intelligent Systems (IEEE-CYBER 2014)*, Hong Kong, China, 4-7 June 2014, pp. 67-71, June 2014. Paper presented by Professor D.S. Naidu.
136. Yan Zhang, **D.S. Naidu**, Chenxiao Cai “Stability Analysis and Control of Lure Singularly Perturbed Uncertain Systems”, *33rd Chinese Control Conference (CCC)*, July 28-30, 2014, in Nanjing, China.
137. H. Nguyen and **D.S. Naidu**, “Fuzzy Adaptive Output Feedback Control Strategy for Stand Alone Wind Energy Conversion Systems”, *11th IEEE International Conference on Control & Automation (IEEE ICCA 2014)*, June 18-20, 2014, Taichung, Taiwan, on 07 February 2014.
138. Ahmed Khamis and **D.S. Naidu**, “Nonlinear Optimal Tracking With Incomplete State Information Using Finite-Horizon State Dependent Riccati Equation (SDRE)”, *Proceedings of the 2014 American Control Conference*, June 4-6, 2014, in Portland, Oregon, USA, pp. 2420-2425, June 2014.

139. **D.S. Naidu** and F. Hruska, CSCS Session: Systems Science and Applications, Chairs: D. Subbaram Naidu, Frantisek Hruska, *WSEAS 4th International Conference on CIRCUITS, SYSTEMS, CONTROL, SIGNALS (CSCS '13)*, Valencia, Spain, August 6-8, 2013.
140. H. Nguyen, **D.S. Naidu**, "Adaptive PID Control of Standalone Wind Energy Conversion Systems", *Proceedings of the WSEAS-NAUN 4th International Conference on CIRCUITS, SYSTEMS, CONTROL, SIGNALS (CSCS '13)*, Valencia, Spain, pp. 15-20, August 6-8, 2013. Paper presented by Professor D.S. Naidu.
141. S. Jaison, **D.S. Naidu**, D. Zydek, "Time Scale Analysis and Synthesis of Wind Energy Conversion Systems", *Proceedings of the WSEAS-NAUN 4th International Conference on CIRCUITS, SYSTEMS, CONTROL, SIGNALS (CSCS '13)*, Valencia, Spain, pp. 21-26, August 6-8, 2013. Paper presented by Professor D.S. Naidu.
142. Y. Zhang, H. Nguyen, **D.S. Naidu**, Yun Zou, Chenxiao Cai, "Time Scale Analysis and Synthesis for Model Predictive Control", *Proceedings of the WSEAS-NAUN 4th International Conference on CIRCUITS, SYSTEMS, CONTROL, SIGNALS (CSCS '13)*, Valencia, Spain, pp. 27-32, August 6-8, 2013, Paper presented by Professor D.S. Naidu.
143. A. Khamis, **D.S. Naidu**, "Nonlinear Optimal Tracking Using Finite-Horizon State Dependent Riccati Equation (SDRE)", *Proceedings of the WSEAS-NAUN 4th International Conference on CIRCUITS, SYSTEMS, CONTROL, SIGNALS (CSCS '13)*, Valencia, Spain, pp. 37-42, August 6-8, 2013. Paper presented by Professor D.S. Naidu.
144. H.M. Nguyen, **D.S. Naidu**, and S. H. Mousavinezhad "H_∞ Optimal Filtering and Control of Wind Energy Conversion Systems," in *The 2013 IEEE International Conference on Electro/Information Technology (EIT2013)*, (Rapid City, SD, USA), May 9-11 2013.
145. S.G. Hunter, R. Gohnert, A.J. Dutson, and D.S. Naidu, "Finite Element Simulations of Stresses in CUP Bond Pads of Al-SiO₂ Interconnect", *Proceedings of the 14th IEEE Electronics Packaging Technology Conference (EPTC)*, Singapore, 5-7, December 2012.
146. H.M. Nguyen and **D.S. Naidu**, "Direct Fuzzy Adaptive Control for Standalone Wind Energy Conversion Systems", *Proceedings of the 2012 World Congress on Engineering and Computer Science (WCECS)*, October 24-26, 2012, San Francisco, USA, Vol. 2, pp. 994-999, 2012.
147. H.M. Nguyen and **D.S. Naidu**, "Singular Perturbation Analysis and Synthesis of Wind Energy Conversion Systems under Stochastic Environments", *Proceedings of the 12th WSEAS International Conference on Advances in Systems Theory, Signal Processing and Computational Science*, pp. 283-288, Istanbul, Turkey, August 21-23, 2012.
148. C. Potluri, M. Anugolu, S. Chiu, D.S. Naidu, M.P. Schoen, "A sEMG-based Real-time Adaptive Joint angle Estimation and Control for a Prosthetic Hand Prototype", *Proceedings of the 12th WSEAS International Conference on Advances*

- in Systems Theory, Signal Processing and Computational Science*, pp. 124-129, Istanbul, Turkey, August 21-23, 2012.
149. H. Nguyen and **D.S. Naidu**, “Time Scale Analysis and Control of Wind Energy Conversion Systems”, *Proceedings of the 2012 International Symposium on Resilient Control Systems (ISRCS)*, Salt Lake City, UT, August 14-16, pp. 149-154, 2012.
 150. **D.S. Naidu**, “My Journey of Education in Control Systems from IIT (1965) to ISU (2012)”, *Proceedings of the 9th IFAC Symposium Advances in Control Education*, International Federation of Automatic Control (IFAC), Nizhny Novgorod, Russia, June 19-21, pp. 28-33, 2012. 120 years of Lyapunov Stability Theory
 151. V.D. Yurkevich and **D.S. Naidu**, “Educational Issues of PI-PID Controllers”, *Proceedings of the 9th IFAC Symposium Advances in Control Education*, International Federation of Automatic Control (IFAC), Nizhny Novgorod, Russia, June 19-21, pp. 448-453, 2012. (**Commemoration of 120 years of Lyapunov Stability Theory - Lyapunov (born in 1857 and died in 1918) studied in Nizhny Novgorod.**)
 152. C.-H. Chen and **D.S. Naidu**, “Hybrid Genetic Algorithm PID Control for a Five-Fingered Smart Prosthetic Hand”, *Proceedings of the 6th WSEAS International Conference on Circuits, Systems and Signals (CSS’11)*, pp. 57-63, Vouliagmeni Beach, Athens, Greece, March 7-9, 2012.
 153. A. Fassih, **D.S. Naidu**, S. Chiu and P. Kumar, *Design and Control of an Under-actuated Prosthetic Hand*, *Proceedings of the 6th WSEAS International Conference on Circuits, Systems and Signals (CSS’11)*, pp. 70-76, Vouliagmeni Beach, Athens, Greece, March 7-9, 2012.
 154. A. Fassih, **D.S. Naidu**, S. Chiu and P. Kumar, *Robust Control of a Prosthetic Hand Based on a Hybrid Adaptive Finger Angle Estimation*, *Proceedings of the 6th WSEAS International Conference on Circuits, Systems and Signals (CSS’11)*, pp. 77-82, Vouliagmeni Beach, Athens, Greece, March 7-9, 2012
 155. C. Potluri, M. Anugolu, Y. Yihun, P. Kumar, S. Chiu, M.P. Schoen, **D.S. Naidu**, “Implementation of sEMG-Based Real-Time Embedded Adaptive Finger Force Control for a Prosthetic Hand”, 50th IEEE Conference on Decision and Control and European Control Conference, *Orlando, FL, USA December 12-15, 2011*.
 156. P. Kumar, C. Potluri, A. Sebastian, Y. Yihun, A. Ilyas, M. Anugolu, R. Sharma, S. Chiu, J. Creelman, A. Urfer, **D.S. Naidu**, and M. P. Schoen, “A Hybrid Adaptive Multi Sensor Data Fusion for Estimation of Skeletal Muscle Force for Prosthetic Hand Control”, 2011 International Conference on Artificial Intelligence (ICAI’11), *Monte Carlo Resort, Las Vegas, Nevada, USA, July 18-21, 2011*.
 157. C. Potluri, Y. Yihun, P. Kumar, J. Molitor, S.C. Chiu, **D.S. Naidu**, M.S. Hossein, “sEMG Based Real-Time Embedded Force Control Strategy For a Prosthetic Hand Prototype”, 2011 IEEE International Conference on Electro/Information Technology (EIT 2011), *Minnesota State University, Mankato, MN, USA, May 15-17, 2011*.

158. C.-H. Chen and **D.S. Naidu**, “Fusion of Fuzzy Logic and PD Control for a Five-Fingered Smart Prosthetic Hand”, Proceedings of the 2011 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2011), June 27-30, 2011, Taipei, Taiwan, pp. 2109-2115, June 2011.
159. P. Kumar, A. Sebastian, M. Anugolu, C. Potluri, A. Fassih, Y. Yihun, A. Jensen, Y. Tang, C.-H. Chen, S. Chiu, K. Bosworth, **D.S. Naidu**, M.P. Schoen, J. Creelman and A. Urfer, “An Adaptive Hybrid Data Fusion Based Identification of Skeletal Muscle Force with ANFIS and Smoothing Spline Curve Fitting”, Proceedings of the 2011 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2011), June 27-30, 2011, Taipei, Taiwan, pp. 932-938, June 2011.
160. H. Nguyen and **D.S. Naidu**, “Advanced Control Strategies for Wind Energy Systems: An Overview”, Proceedings of the 2011 IEEE PES Power Systems Conference & Exposition, Phoenix, AZ, USA, pp 10-18, March 20 - 23, 2011.
161. A. Fassih, **D.S. Naidu**, S. Chiu, and M.P. Schoen, Precision Grasping of a Prosthetic Hand Based on Virtual Spring Damper Hypothesis, Proceedings of the 5th Cairo International Biomedical Engineering Conference (CIBEC), Cairo, Egypt, December 16-18, pp. 79-82, 2010.
162. P. Kumar, C. Potluri, M. Anugolu, A. Sebastian, J. Creelman, A. Urfer, S. Chiu, **D.S. Naidu**, and M.P. Schoen, A Hybrid Adaptive Data Fusion with Linear and Nonlinear Models for Skeletal Muscle Force Estimation, Proceedings of the 5th Cairo International Biomedical Engineering Conference (CIBEC), Cairo, Egypt, December 16-18, pp. 9-12, 2010. Paper presented by Professor D.S. Naidu.
163. A. Fassih, **D.S. Naidu**, S. Chiu, and M.P. Schoen, “Power Grasping of a Prosthetic Hand Based Upon Virtual Spring-Damper Hypothesis”, Proceedings of the IASTED International Conference on Robotics and Applications, Cambridge, MA, pp. 213-220, November 1 - 3, 2010
164. C.H. Chen and **D.S. Naidu**, “Optimal Control Strategy for a Two-Fingered Smart Prosthetic Hand Proceedings of the IASTED International Conference on Robotics and Applications, Cambridge, MA, pp. 190-196, November 1 - 3, 2010
165. C. Potluri, P. Kumar, M. Anugolu, A. Urfer, S. Chiu, **D.S. Naidu**, and M.P. Schoen, Frequency Domain Surface EMG Sensor Fusion for Estimating Finger Forces, Proceedings of the IEEE EMBS 32nd Annual International Conference, Buenos Aires, Argentina, August 31 - September 4, 2010, pp. 5975-5978, 2010
166. P. Kumar, A. Sebastian, C. Potluri, A. Urfer, **D.S. Naidu**, and M.P. Schoen, Towards Smart Prosthetic Hand: Adaptive Probability Based Skeletan Muscle Fatigue Model, Proceedings of the IEEE EMBS 32nd Annual International Conference, Buenos Aires, Argentina, August 31 - September 4, 2010, pp. 1316-1319, 2010
167. P. Kumar, C. Potluri, A. Sebastian, S. Chiu, A. Urfer, **D.S. Naidu**, and M.P. Schoen, “An Adaptive Multi Sensor Data Fusion with Hybrid Nonlinear ARX and Wiener-Hammerstein Models for Skeletal Muscle Force Estimation”, Proceedings of the 14th WSEAS⁹ International Conference on SYSTEMS, pp. 186-191, Corfu Island, Greece, July 22-24, 2010.

⁹World Scientific and Engineering Academy and Society

168. C.-H. Chen, **D.S. Naidu**, and M.P. Schoen, “An Adaptive Control Strategy for a Five-Fingered Prosthetic Hand”, *Proceedings of the The 14th WSEAS¹⁰ International Conference on SYSTEMS*, Corfu Island, Greece, during July 22-24, 2010, pp. 405-410, 2010.
169. A. Sebastian, P. Kumar, M.P. Schoen, A. Urfer, Jim Creelman, and **D.S. Naidu**, “Analysis of EMG-Force Relation Using System Identification and Hammerstein-Wiener Models”, *Proceedings of the ASME 3rd Annual Dynamic Systems and Control (DSC) Conference*, Cambridge, MA, September 13-15, 2010, pp. 1-8, 2010.
170. C. Potluri, C.Vedantam, S. Anjaneyulu Dasari, D. kumar, G.V.S., Avinash M, M.P. Schoen, and **D.S. Naidu**, “Hand gestures recognition based on sEMG signal using wavelet and pattern recognition”, *Proceedings of the International Conference on Aerospace Electronics, Communication and Instrumentation (AECI)*, Vijayawada, AP, India, January 6-7, 2010.
171. Z. Wang, W. Liu, H. Dai, **D.S. Naidu**, “Robust Stabilization of Model-Based Uncertain Singularly Perturbed Systems with Networked Time-Delay”, *Proceedings of the combined 48th IEEE Conference on Decision and Control (CDC) and the 28th Chinese Control Conference (CCC)*, the Shanghai International Convention Center, Shanghai, China, pp. 7917-7922, December 16-18, 2009.
172. C.-H. Chen, **D.S. Naidu**, A. Perez, and M.P. Schoen, “Hybrid Optimal Control Strategy for Five-Fingered Smart Prosthetic Hand”, *Proceedings of the combined 48th IEEE Conference on Decision and Control (CDC) and the 28th Chinese Control Conference (CCC)*, the Shanghai International Convention Center, Shanghai, P.R. China, pp. 5102-5107, December 16-18, 2009.
173. M. Anugolu, A. Sebastian, P. Kumar, M.P. Schoen, A. Urfer, **D.S. Naidu**, “Surface EMG Array Sensor Based Model Fusion Using Bayesian Approaches For Prosthetic Hands”, *Proceedings of the ASMS Dynamic Systems and Control Conference (DSCC)*, Hollywood, CA, USA, DSCC2009-2690, October 12-14, 2009.
174. A. Sebastian, P. Kumar, M. Anugolu, M.P. Schoen, A. Urfer, **D.S. Naidu**, “Optimization of Bayesian filters and Hammerstein-Wiener models for EMG-force signals using genetic algorithms”, *Proceedings of the ASMS Dynamic Systems and Control Conference (DSCC)*, Hollywood, CA, USA, DSCC2009-2658, October 12-14, 2009.
175. C.-H. Chen, **D.S. Naidu**, A. Perez, and M.P. Schoen, “Hybrid Optimal Control Strategy for Smart Prosthetic Hand”, *Proceedings of the ASMS Dynamic Systems and Control Conference (DSCC)*, Hollywood, CA, USA, DSCC2009-2507, October 12-14, 2009.
176. C.-H. Chen, **D.S. Naidu**, A. Perez, and M.P. Schoen, “Hybrid Adaptive Control Strategy for Smart Prosthetic Hand”, *Proceedings of the 31st Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC’09)*, Minneapolis, Minnesota, USA, pp. 5056-5059, September 2-6, 2009. in *Top 20 Articles, in the Domain of Article 19964853, Since its Publication (2009)* according

¹⁰World Scientific and Engineering Academy and Society

- to *BioMedLib*: “Who is Publishing in My Domain?”, **Ranked as No. 8 of 20** as on 2014-08-01; **Ranked as No. 10 of 20** as on 2015-05-04; **Ranked 10 of 20** as on 21 October 2015.
177. **D.S. Naidu**, and C.G. Rieger, “Advanced Control Strategies for HVAC&R Systems - A Topical Survey”, *Proceedings of the International Association of Science and Technology for Development (IASTED) Eleventh International Conference on Control and Applications (CA 2009)*, Cambridge, UK, July 13–15, pp. 225-232, 2009.
 178. C.G. Rieger and **D.S. Naidu**, “Implementation of a Hybrid Controller for Critical Building HVAC Systems,” *Proceedings of the Eleventh IASTED International Conference on Intelligent Systems and Control*, Orlando, Florida, pp. 126-133, November 16-18, 2008.
 179. C.-H. Chen, **D.S. Naidu**, A. Perez, and M.P. Schoen, “Fusion of Hard and Soft Control Techniques for Prosthetic Hand”, *Proceedings of the International Association of Science and Technology for Development (IASTED) International Conference on Intelligent Systems and Control (ISC 2008)*, Orlando, FL, USA, November 16-18, pp.120-125, 2008.
 180. C.-H. Chen, K.W. Bosworth, M.P. Schoen, S.E. Bearden, **D.S. Naidu**, and A. Perez. “A study of particle swarm optimization on leukocyte adhesion molecules and control strategies for smart prosthetic hand”, *2008 IEEE Swarm Intelligence Symposium (IEEE SIS08)*, St. Louis, Missouri, USA, September 21-23, 2008.
 181. **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. In *Top 20 Articles, in the Domain of Article 19163667, Since its Publication (2008)* according to *BioMedLib*: “Who is Publishing in My Domain?” <http://wipimd.com/?>, **Ranked as No. 8 of 20** as on 2014-08-01, **Ranked as No. 9 of 20** as on 2015-05-04; **Ranked 10 of 20** as on 21 October 2015. DOI: 10.1109/IEMBS.2008.4650164
 182. G. Wang, Z. Wang, and **D.S. Naidu**, “On Model-Based Networked Control of Singularly Perturbed Systems”, *Proceedings of the 27th Chinese Control Conference (CCC08)*, pp. 53-57, Kunming city, Yunnan Province, China, July 16-18, 2008.
 183. D.S. Naidu, “Control System Design Overview”, *1st International Symposium on Resilient Control Systems*, Idaho Falls, Idaho, September 9-10, 2008 (Presenter and Session Chair).
 184. B. Ramkumar and **D.S. Naidu**, “Closed-Loop Optimal Control Strategy for Cancer Chemotherapy”, *ASME International Mechanical Engineering Conference and Exhibit (IMECE)*, pp. 1-9, Seattle, WA, November 11-15, 2007.
 185. Y. Imura and **D.S. Naidu**, “Unified approach for closed-loop optimal control”, *Proceedings of the 2007 IEEE International Conference on Control and Automation (ICCA)*, Guangzhou, China, pp. 2322-2327, May 30 to June 1, 2007.
 186. K. Duraisamy, O. Isebor, A. Perez, M. P. Schoen and **D.S. Naidu**, “Kinematic synthesis for smart hand prosthesis”, *First IEEE/RAS-EMBS 2006 International*

- Conference on Biomedical Robotics and Biomechatronics*, Pisa, Italy, February 20-22, 2006.
187. B. Thumati, **D.S. Naidu** and L. Stout, "A Neuro-Fuzzy Model For Simulating Outer Hair Cell Of Human Cochlea", *ASME International Mechanical Engineering Conference and Exhibit (IMECE)*, Orlando, FL, November 5-9, 2005.
 188. R. C. Hoover and M. P. Schoen and **D.S. Naidu**, "Hybrid Computing Techniques for Collaborative Control of UCAVs", *ASME International Mechanical Engineering Conference and Exhibit (IMECE)*, Orlando, FL, November 5-9, 2005.
 189. V. Nandikolla and **D.S. Naidu**, "Blood Glucose Regulation for Diabetic Mellitus Using Hybrid Intelligent Techniques", *ASME International Mechanical Engineering Conference and Exhibit (IMECE)*, Orlando, FL, November 5-9, 2005.
 190. **D.S. Naidu**, Yilmaz Türkyilmaz, and Olav Egeland, "Singular Perturbation Analysis of a Flexible Beam", *22nd International Federation for Information Processing (IFIP) Conference on System Modeling and Optimization*, July 18-22, 2005, Turin, Italy, July 18-22, 2005.
 191. R. Hoover, M. P. Schoen and **D.S. Naidu**, "Fusion of Hard and Soft Control for Uninhabited Aerial Vehicles", *16th International Federation of Automatic Control (IFAC) World Congress*, Prague, Czech Republic, July 4-8, 2005.
 192. C. Rieger and **D.S. Naidu**, "Implementation of a Hybrid Controller for Ventilation Control Using Soft Computing", *Automatic Control Conference (ACC)*, Portland, OR, June 8-10, 2005.
 193. **D.S. Naidu** and V. Nandikolla, "Fusion of Hard and Soft Control Strategies for Left Ventricular Ejection Dynamics Arising in Biomedicine", *Automatic Control Conference (ACC)*, Portland, OR, June 8-10, 2005.
 194. C. Rieger and **D.S. Naidu**, "New techniques for implementing linear quadratic methods with aerospace and other industrial control applications", *Proceedings of the 6th International Association of Science and Technology for Development (IASTED) International Conference on Intelligent Systems and Control*, Honolulu, Hawaii, USA, pp. 388-393, August 23-25, 2004.
 195. Y. Imura and **D.S. Naidu**, "Unified approach for open-loop optimal control with applications to aerospace systems", *16th International Federation of Automatic Control (IFAC) Symposium on Automatic Control in Aerospace*, Saint-Petersburg, Russia, June 14-18, 2004.
 196. **D.S. Naidu** and M. Murillo, "A unified approach to optimal control systems with state constraints", *Proceedings of the Automatic Control Conference (ACC)*, pp. 5280-5285, Denver, CO, June 4-6, 2003.
 197. **D.S. Naidu** and Y. Imura, "Unified approach for Euler-Lagrange equation arising in calculus of variations", *Proceedings of the Automatic Control Conference (ACC)*, Denver, CO, pp. 3263-3268, June 4-6, 2003.
 198. M. Murillo and **D.S. Naidu**, "Discrete-time optimal control systems with state constraints", *AIAA Guidance, Control, and Navigation (GN&C) Conference and Exhibit*, Monterey, CA, August 5-8, 2002.

199. **D.S. Naidu**, J. Finnegan, A. Wilson, L. Robinson, R. E. Stuffle, and J. F. Kunze, "A century-long evolution of engineering education at Idaho State University", *Proceedings of the 2002 American Society for Engineering Education (ASEE) Annual Conference and Exposition*, Montreal, Canada, June 16-19, 2002.
200. **D.S. Naidu**, H. Sadid and R. E. Stuffle, "Measurement and Control in Mechatronics Systems at Idaho State University", *Proceedings of The 7th Mechatronics Forum International Conference and Mechatronics Education Workshop*, Atlanta, GA, September 6-8, 2000. [Invited Session]
201. H. Singh, **D.S. Naidu** and M. L. Nagurka, "Unified H_∞ approach to a singularly perturbed aircraft model", *Proceedings of the 2000 American Control Conference*, Chicago, IL, pp. 1847-1851, June 28-30, 2000.
202. **D.S. Naidu**, D.B. Doman and Siva S. Banda, "Sky print for X-33 vehicle via neighboring optimal control", *Proceedings of the 2000 American Control Conference*, Chicago, IL, pp. 3870-3874, June 28-30, 2000.
203. **D.S. Naidu**, J. M. Buffington, and S. S. Banda, "Optimal control of singularly perturbed systems with inequality constraints", *Proceedings of the AIAA Guidance, Navigation and Control (GNC) Conference*, Portland, OR, pp. 883-891, August 9-11, 1999.
204. **D.S. Naidu**, J. M. Buffington, and S. S. Banda, "Further results on non-dimensional forms for singularly perturbed structures", *Proceedings of the AIAA Guidance, Navigation and Control (GNC) Conference*, Portland, OR, pp. 226-236, August 9-11, 1999.
205. **D.S. Naidu**, J. M. Buffington, and S. S. Banda, "Resurrection in Hypersonics: Why, What and When", *Proceedings of the AIAA Guidance, Navigation and Control (GNC) Conference*, Portland, OR, pp. 563-573, August 9-11, 1999.
206. H. Singh, R.H. Brown, **D.S. Naidu**, J. A. Heinen, "Robust Stability of Unified Singularly Perturbed Feedback Systems", *Proceedings of the AIAA Guidance, Navigation and Control (GNC) Conference*, Portland, OR, pp. 820-825, August 9-11, 1999.
207. **D.S. Naidu**, S. S. Banda and J. M. Buffington, "Unified Approach to H_2 and H_∞ optimal control of hypersonic vehicles", *Proceedings of the American Control Conference (ACC)*, San Diego, CA, pp. 2737-2741, June 3-5, 1999.
208. H. Singh, R. H. Brown, and **D.S. Naidu**, "Unified approach to H_∞ -optimal control of singularly perturbed systems: imperfect state measurements," *Proceedings of the 1999 American Control Conference (ACC)*, San Diego, CA, pp. 2909-2913, June 3-5, 1999.
209. H. Singh, R. H. Brown and **D.S. Naidu**, "Unified approach to H-infinity-optimal control of singularly perturbed systems: perfect state measurements", *Proceedings of 37th IEEE Conference on Decision and Control (CDC)*, Tampa, FL, pp. 2214-2215, December 16-18, 1998.
210. S. Ozcelik, K. L. Moore and **D.S. Naidu**, "Application of MIMO direct adaptive control of gas metal arc welding", *Proceedings of the 1998 American Control Conference(ACC)*, Philadelphia, PA, pp. 1762-1766, June 24-26, 1998.

211. K. L. Moore, R. Yender, J. Tyler and **D.S. Naidu**, "Modeling, calibration, and control-theoretic analysis of the GMAW process", Proceedings of the 1998 American Control Conference (ACC), Philadelphia, PA, pp. 1747-1751, June 24-26, 1998.
212. H. Singh, **D.S. Naidu**, and J. N. Peterson, *Eigenvalue Assignment of Unified Systems with Slow and Fast Modes*, IEEE International Conference on Control Applications, Dearborn, Michigan, September 15-18, 1996.
213. S. Ozcelik, K. L. Moore and **D.S. Naidu**, "Multiple input, multiple output (MIMO) direct model reference adaptive control for gas metal arc welding", Proceedings of the Fifth Intl. Conference on Trends In Welding Research, Ed. by J. M. Vitek *et al.*, pp. 1056-1061, Pine Mountain, CA, June 1-5, 1998.
214. S. Ozcelik, K. L. Moore, J. Tyler and **D.S. Naidu**, "Maximum production rates of prescribed mass and heat transfer in gas metal arc welding: an optimization approach", Proceedings of the Fifth Intl. Conference on Trends In Welding Research, Ed. by J. M. Vitek *et al.*, pp. 1050-1055, Pine Mountain, CA, June 1-5, 1998.
215. K. L. Moore, **D.S. Naidu**, J. Tyler and S. Ozcelik, "Classical control of gas metal arc welding", Proceedings of the Fifth Intl. Conference on Trends In Welding Research, Ed. by J. M. Vitek *et al.*, pp. 1033-1038, Pine Mountain, CA, June 1-5, 1998.
216. **D.S. Naidu** and K. L. Moore, "Automatic control strategies for gas metal arc welding: a status survey", Proceedings of the Fifth Intl. Conference on Trends In Welding Research, Ed. by J. M. Vitek *et al.*, pp. 1027-1032, Pine Mountain, CA, June 1-5, 1998.
217. K. L. Moore, **D.S. Naidu**, R. Yender, J. Tyler, and S. Ozcelik, "Experimental calibration of an automated gas metal arc welding process model", Proceedings of the Fifth Intl. Conference on Trends In Welding Research, Ed. by J. M. Vitek *et al.*, pp. 314-319, Pine Mountain, CA, June 1-5, 1998.
218. H.S. Singh, and **D.S. Naidu**, "Delta operators for discrete-time approximations of continuous-time controllers," AIAA Guidance, Navigation and Control (GN&C) Conference, San Diego, CA, July 29-31, 1996.
219. 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)
220. **D.S. Naidu**, K.L. Moore, R. Yender, and J. Tyler, "Gas metal arc welding control: part I-modeling and analysis," Proceedings of the Second World Congress of Nonlinear Analysis, Athens, Greece, July 10-17, 1996. (Invited Session)
221. 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.

222. 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.
223. 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.
224. **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**).
225. 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.
226. 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.
227. 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.
228. 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.
229. 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.
230. 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.
231. **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.
232. **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. (Invited Survey Paper, Session Organizer and Session Chair)

233. 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.
234. 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.
235. 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.
236. 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.
237. 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.
238. 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.
239. 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.
240. **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 Survey Paper and Session Chair**)
241. 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)
242. 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.
243. 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.
244. 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.
245. **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.

246. **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.
247. 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.
248. 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.
249. 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.
250. 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.
251. 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.
252. **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.
253. 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.
254. **D.S. Naidu**, “Orbital plane change maneuver with aerocruise,” *AIAA 29th Aerospace Sciences Meeting and Exhibit*, Reno, Nevada, January 7-10, 1991.
255. **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.
256. **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 Survey Paper**)
257. **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, MA, August 14-16, 1989.
258. **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.

259. **D.S. Naidu**, “Three-dimensional atmospheric entry problem using method of matched asymptotic expansions,” *American Control Conference (ACC)*, Atlanta, Georgia, June 15-17, 1988.
260. **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 Angeles, CA, December 9-11, 1987. (**Invited Survey Paper, Session Organizer and Chair**)
261. **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.
262. 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.
263. **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.
264. **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.
265. **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.
266. **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.
267. **D.S. Naidu**, “Basic concepts underlying singular perturbations and time scales in continuous and discrete control systems,” *IASTED International Conference*, Halkidiki, Greece, August 1984.
268. **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.
269. 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.
270. **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.
271. **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, pp. C79-C85 December 1981.

272. **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.
273. P.K. Rajagopalan and **D.S. Naidu**, "Application of Vasileva's singular perturbation method to problems in large scale power systems," *Proceedings of the International Federation of Automatic Control (IFAC) Symposium on Computer Applications in Large Scale Power Systems*, Vol. 12, Issue 5, Part 1, pp. 41-49, New Delhi, September 1979.
274. P.K. Rajagopalan and **D.S. Naidu**, "Application of Vasileva's method to initial value problems," *National Systems Conference*, Ludhiana, September 1978.
275. 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.

VIII. Research/Technical Reports

276. C. Potluri, S. Chiu and **D.S. Naidu**, *Goal 2B: Embedded Hierarchical Real-Time Systems for Smart Prosthetic Hand Technology - Phase 2*, Quarterly Research Report 12, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, December 10, 2012.
277. C. Potluri, S. Chiu and **D.S. Naidu**, *Goal 2B: Embedded Hierarchical Real-Time Systems for Smart Prosthetic Hand Technology - Phase 2*, Quarterly Research Report 11, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, December 20, 2012.
278. C. Potluri, S. Chiu and **D.S. Naidu**, *Goal 2B: Embedded Hierarchical Real-Time Systems for Smart Prosthetic Hand Technology - Phase 2-Yr3-Qrt10*, Quarterly Research Report 10, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, October 20, 2012.
279. C. Potluri, S. Chiu and **D.S. Naidu**, *Goal 2B: Embedded Hierarchical Real-Time Systems for Smart Prosthetic Hand Technology - Phase 2-Yr3-Qrt9*, Quarterly Research Report 9, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, July 20, 2012.
280. C. Potluri, S. Chiu and **D.S. Naidu**, *Goal 2B: Embedded Hierarchical Real-Time Systems for Smart Prosthetic Hand Technology - Phase 2-Yr2-Qrt8*, Quarterly Research Report 8, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, April 20, 2012.
281. C. Potluri, S. Chiu and **D.S. Naidu**, *Goal 2B: Embedded Hierarchical Real-Time Systems for Smart Prosthetic Hand Technology - Phase 2-Yr2-Qrt7*, Quarterly Research Report 7, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, January 20, 2012.
282. C. Potluri, S. Chiu and **D.S. Naidu**, *Goal 2B: Embedded Hierarchical Real-Time Systems for Smart Prosthetic Hand Technology - Phase 2-Yr2-Qrt6*, Quarterly Research Report 6, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, October 20, 2011.
283. C. Potluri, S. Chiu and **D.S. Naidu**, *Goal 2B: Embedded Hierarchical Real-Time Systems for Smart Prosthetic Hand Technology - Phase 2-Yr2-Qrt5*, Quarterly Research Report 5, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, July 20, 2011.
284. C. Potluri, S. Chiu and **D.S. Naidu**, *Goal 2B: Embedded Hierarchical Real-Time Systems for Smart Prosthetic Hand Technology - Phase 2-Yr1-Qrt4*, Quarterly Research Report 4, Measurement and Control Engineering Research Center

- (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, April 20, 2011.
285. C. Potluri, S. Chiu and **D.S. Naidu**, *Goal 2B: Embedded Hierarchical Real-Time Systems for Smart Prosthetic Hand Technology - Phase 2-Yr1-Qrt3*, Quarterly Research Report 3, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, January 20, 2011.
 286. C. Potluri, S. Chiu and **D.S. Naidu**, *Goal 2B: Embedded Hierarchical Real-Time Systems for Smart Prosthetic Hand Technology - Phase 2-Yr1-Qrt2*, Quarterly Research Report 2, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, October 20, 2010.
 287. C. Potluri, S. Chiu and **D.S. Naidu**, *Goal 2B: Embedded Hierarchical Real-Time Systems for Smart Prosthetic Hand Technology - Phase 2-Yr1-Qrt1*, Quarterly Research Report 1, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, July 20, 2010.
 288. C. Potluri, S. Chiu and **D.S. Naidu**, *Goal 2B: Embedded Hierarchical Real-Time Systems for Smart Prosthetic Hand Technology - Phase 2 - Year1*, Annual Research Report, Measurement and Control Engineering Research Center (MCERC), College of Engineering, Idaho State University, Pocatello, ID, USA, April 25, 2011.
 289. C. Potluri, S. Chiu and **D.S. Naidu**, *Goal 2B: Embedded Hierarchical Real-Time Systems for Smart Prosthetic Hand Technology - Phase 2 - Year2*, Annual Research Report, Measurement and Control Engineering Research Center (MCERC), College of Engineering, Idaho State University, Pocatello, ID, USA, pp. 167-185, April 25, 2012.
 290. C. Potluri, S. Chiu and **D.S. Naidu**, *Goal 2B: Embedded Hierarchical Real-Time Systems for Smart Prosthetic Hand Technology - Phase 2 - Year3*, Annual Research Report, Measurement and Control Engineering Research Center (MCERC), College of Engineering, Idaho State University, Pocatello, ID, USA, pp. 1-34, December 15, 2012.
 291. C. Potluri, S. Chiu and **D.S. Naidu**, *Goal 2B: Embedded Hierarchical Real-Time Systems for Smart Prosthetic Hand Technology - Phase 2 - Final*, Final Research Report, Measurement and Control Engineering Research Center (MCERC), College of Engineering, Idaho State University, Pocatello, ID, USA, pp. 21-239, December 19, 2012.
 292. A. Fassih and **D.S. Naidu**, *Goal 2A: Real Time Grasping Control for Smart Prosthetic Hand Technology - Phase 2*, Quarterly Research Report 12, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, December 10, 2012.
 293. A. Fassih and **D.S. Naidu**, *Goal 2A: Real Time Grasping Control for Smart Prosthetic Hand Technology - Phase 2*, Quarterly Research Report 11, Measure-

- ment and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, December 20, 2012.
294. A. Fassih and **D.S. Naidu**, *Goal 2A: Real Time Grasping Control for Smart Prosthetic Hand Technology - Phase 2-Yr3-Qrt10*, Quarterly Research Report 10, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, October 20, 2012.
 295. A. Fassih and **D.S. Naidu**, *Goal 2A: Real Time Grasping Control for Smart Prosthetic Hand Technology - Phase 2-Yr3-Qrt9*, Quarterly Research Report 9, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, July 20, 2012.
 296. A. Fassih and **D.S. Naidu**, *Goal 2A: Real Time Grasping Control for Smart Prosthetic Hand Technology - Phase 2-Yr2-Qrt8*, Quarterly Research Report 8, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, April 20, 2012.
 297. A. Fassih and **D.S. Naidu**, *Goal 2A: Real Time Grasping Control for Smart Prosthetic Hand Technology - Phase 2-Yr2-Qrt7*, Quarterly Research Report 7, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, January 20, 2012.
 298. A. Fassih and **D.S. Naidu**, *Goal 2A: Real Time Grasping Control for Smart Prosthetic Hand Technology - Phase 2-Yr2-Qrt6*, Quarterly Research Report 6, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, October 20, 2011.
 299. A. Fassih and **D.S. Naidu**, *Goal 2A: Real Time Grasping Control for Smart Prosthetic Hand Technology - Phase 2-Yr2-Qrt5*, Quarterly Research Report 5, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, July 20, 2011.
 300. A. Fassih and **D.S. Naidu**, *Goal 2A: Real Time Grasping Control for Smart Prosthetic Hand Technology - Phase 2-Yr1-Qrt4*, Quarterly Research Report 4, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, April 20, 2011.
 301. A. Fassih and **D.S. Naidu**, *Goal 2A: Real Time Grasping Control for Smart Prosthetic Hand Technology - Phase 2-Yr1-Qrt3*, Quarterly Research Report 3, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, January 20, 2011.
 302. A. Fassih and **D.S. Naidu**, *Goal 2A: Real Time Grasping Control for Smart Prosthetic Hand Technology - Phase 2-Yr1-Qrt2*, Quarterly Research Report 2, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, October 20, 2010.
 303. A. Fassih and **D.S. Naidu**, *Goal 2A: Real Time Grasping Control for Smart Prosthetic Hand Technology - Phase 2-Yr1-Qrt1*, Quarterly Research Report 1, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, July 20, 2010.

304. A. Fassih and **D.S. Naidu**, *Goal 2A: Real Time Grasping Control for Smart Prosthetic Hand Technology - Phase 2 - Year1*, Annual Research Report, Measurement and Control Engineering Research Center (MCERC), College of Engineering, Idaho State University, Pocatello, ID, USA, April 25, 2011.
305. A. Fassih and **D.S. Naidu**, *Goal 2A: Real Time Grasping Control for Smart Prosthetic Hand Technology - Phase 2 - Year2*, Annual Research Report, Measurement and Control Engineering Research Center (MCERC), College of Engineering, Idaho State University, Pocatello, ID, USA, pp. 132-166, April 25, 2012.
306. A. Fassih and **D.S. Naidu**, *Goal 2A: Real Time Grasping Control for Smart Prosthetic Hand Technology - Phase 2 - Year3*, Annual Research Report, Measurement and Control Engineering Research Center (MCERC), College of Engineering, Idaho State University, Pocatello, ID, USA, December 15, 2012.
307. A. Fassih and **D.S. Naidu**, *Goal 2A: Real Time Grasping Control for Smart Prosthetic Hand Technology - Phase 2 - Final*, Final Research Report, Measurement and Control Engineering Research Center (MCERC), College of Engineering, Idaho State University, Pocatello, ID, USA, December 19, 2012.
308. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 2-Year3-Final*, Final Research Report, Measurement and Control Engineering Research Center (MCERC), College of Engineering, Idaho State University, Pocatello, ID, USA, December 19, 2012.
309. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 2-Year3-Annual*, Annual Research Report, Measurement and Control Engineering Research Center (MCERC), College of Engineering, Idaho State University, Pocatello, ID, USA, December 15, 2012.
310. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 2*, Quarterly Research Report 12, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, December 10, 2012.
311. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 2*, Quarterly Research Report 11, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, December 20, 2012.
312. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 2-Yr3-Qrt10*, Quarterly Research Report 10, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, October 20, 2012.
313. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 2-Yr3-Qrt9*, Quarterly Research Report 9, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, July 20, 2012.
314. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 2-Year2-Annual*, Year 2: Annual Research Report, Measurement and Control Engineering Research Center (MCERC), College of Engineering, Idaho State University, Pocatello, ID, USA, April 25, 2012.

315. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 2-Yr2-Qrt8*, Quarterly Research Report 8, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, April 20, 2012.
316. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 2-Yr2-Qart7*, Quarterly Research Report 7, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, January 20, 2012.
317. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 2-Yr2-Qrt6*, Quarterly Research Report 6, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, October 20, 2011.
318. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 2-Yr2-Qrt5*, Quarterly Research Report 5, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, July 20, 2011.
319. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 2-Year1-Annual*, Year 1: Annual Research Report, Measurement and Control Engineering Research Center (MCERC), College of Engineering, Idaho State University, Pocatello, ID, USA, April 25, 2011.
320. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 2-Yr1-Qrt4*, Quarterly Research Report 4, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, April 20, 2011.
321. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 2-Yr1-Qrt3*, Quarterly Research Report 3, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, January 20, 2011.
322. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 2-Yr1-Qrt2*, Quarterly Research Report 2, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, October 20, 2010.
323. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 2-Yr1-Qrt1*, Quarterly Research Report 1, Measurement and Control Engineering Research Center (MCERC), School of Engineering, Idaho State University, Pocatello, ID, USA, July 20, 2010.
324. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 1-Final*, Final Research Report, Measurement and Control Engineering Research Center (MCERC), College of Engineering, Idaho State University, Pocatello, ID, USA, August 22, 2009.
325. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 1-Yr2-Annual*, Year 2: Annual Research Report, Measurement and Control Engineering Research Center (MCERC), College of Engineering, Idaho State University, Pocatello, ID, USA, August 15, 2009.

326. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 1-Yr2-Qrt8*, Quarterly Research Report 8, Measurement and Control Engineering Research Center (MCERC), College of Engineering, Idaho State University, Pocatello, ID, USA, August 11, 2009.
327. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 1-Yr2-Q7*, Quarterly Research Report 7, Measurement and Control Engineering Research Center (MCERC), College of Engineering, Idaho State University, Pocatello, ID, USA, May 05, 2009.
328. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 1-Yr2-Q6*, Quarterly Research Report 6, Measurement and Control Engineering Research Center (MCERC), College of Engineering, Idaho State University, Pocatello, ID, USA, February 05, 2009.
329. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 1-Yr2-Q5*, Quarterly Research Report 5, Measurement and Control Engineering Research Center (MCERC), College of Engineering, Idaho State University, Pocatello, ID, USA, November 02, 2008.
330. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 1-Year1-Annual*, Year 1: Annual Report, Measurement and Control Engineering Research Center (MCERC), College of Engineering, Idaho State University, Pocatello, ID, USA, August 05, 2008.
331. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 1-Yr1-Q4*, Quarterly Research Report 4, Measurement and Control Engineering Research Center (MCERC), College of Engineering, Idaho State University, Pocatello, ID, USA, August 05, 2008.
332. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 1-Yr1-Q3*, Quarterly Research Report 3, Measurement and Control Engineering Research Center (MCERC), College of Engineering, Idaho State University, Pocatello, ID, USA, May 02, 2008.
333. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 1-Yr1-Q2*, Quarterly Research Report 2, Measurement and Control Engineering Research Center (MCERC), College of Engineering, Idaho State University, Pocatello, ID, USA, February 04, 2008.
334. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 1-Yr1-Q1*, Quarterly Research Report 1, Measurement and Control Engineering Research Center (MCERC), College of Engineering, Idaho State University, Pocatello, ID, USA, November 02, 2007.
335. **D.S. Naidu**, *Advanced Control Strategies for HVAC&R Systems - A Topical Survey*, Technical Report, Dept. of Electrical Engineering and Measurement and Control Engineering Research Center, College of Engineering, Idaho State University, Pocatello, ID, September 30, 2008.
336. **D.S. Naidu**, *Hybrid Control Strategies for Prosthetic Hand Technology-An Overview*, Dept. of Electrical Engineering and Measurement and Control Engineering Research Center, College of Engineering, Idaho State University, Pocatello, ID, July 2008.

337. **D.S. Naidu** and C.-H. Chen *Control Strategies for Smart Prosthetic Hand Technology: An Overview*, Technical Report, Research conducted during sabbatical leave at the Dept. of Electrical Engineering, the University of Western Australia, Crawley, Perth, Australia, April 11, 2008.
338. **D.S. Naidu** *Nonlinear Optimal Control of Multi-fingered Prosthetic Hand*, Technical Report, Research conducted during sabbatical leave at the Center for Industrial and Applied Mathematics (CIAM), Institute of Sustainable Systems and Technologies (ISST), Division of Information Technology (IT), Engineering and Environment, University of South Australia, Adelaide, Australia, March 14, 2008.
339. **D.S. Naidu** *Linear Programming Approach to Nonlinear Optimal Control of Multi-Fingered Prosthetic Hand*, Technical Report, Research conducted during sabbatical leave at the Center for Industrial and Applied Mathematics (CIAM), Institute of Sustainable Systems and Technologies (ISST), Division of Information Technology (IT), Engineering and Environment, University of South Australia, Adelaide, Australia, March 14, 2008.
340. C.H. Chen and **D.S. Naidu**, *Goal 2A: Intelligent Control for Smart Prosthetic Hand Technology - Phase 1*, Quarterly Research Report 1, Measurement and Control Engineering Research Center (MCERC), College of Engineering, Idaho State University, Pocatello, ID, USA, November 02, 2007.
341. *D.S. Naidu*, *Control Strategies for Prosthetic Hand Technology*, Dept. of Electrical Engineering and Measurement and Control Engineering Research Center, College of Engineering, Idaho State University, Pocatello, ID, November 2006.
342. H. Yoo and **D.S. Naidu**, *Fusion of Model Reference Adaptive Speed Control and Fuzzy Logic*, Technical Report, T. R. 2005-001, Dept. of Electrical Engineering and Measurement and Control Engineering Research Center, College of Engineering, Idaho State University, Pocatello, ID, May 2005.
343. C. Rieger and **D.S. Naidu**, *Linear Quadratic Regulator and Tracking Control Algorithms Implemented in MATLAB*, Technical Report, T. R. 2004-001, Dept. of Electrical Engineering and Measurement and Control Engineering Research Center, College of Engineering, Idaho State University, Pocatello, ID, November 15, 2004.
344. **D.S. Naidu**, *Order Reduction in System Modeling, Analysis and Control via Singular Perturbations and Time Scales: Applications to Flexible Beam Systems and Gantry Cranes*, Technical Report, Center of Excellence for Ships and Ocean Structures (CESOS), Norwegian University of Science and Technology (NTNU), Trondheim-7491, Norway, and Dept. of Electrical Engineering and Measurement and Control Engineering Research Center, College of Engineering, Idaho State University, Pocatello, ID, August 13, 2004.
345. **D.S. Naidu**, *Guidance and Control Strategies for Hypersonic Vehicles: Final Report*, Technical Report, T.R. 1999/2000 002, Measurement and Control Engineering Research Center, College of Engineering, Idaho State University, Pocatello, ID, August 13, 1999.
346. **D.S. Naidu**, *Guidance and Control Strategies for Hypersonic Vehicles*, Technical Report, T.R. 1998/99 002, Measurement and Control Engineering Research

- Center, College of Engineering, Idaho State University, Pocatello, ID, December 31, 1998.
347. **D.S. Naidu**, S. S. Banda and P. R. Chandler, *Guidance and Control Strategies for Tactical Unmanned Air Vehicles: Research Areas*, Technical Report, T.R. 97/98 008, Measurement and Control Engineering Research Center, College of Engineering, Idaho State University, Pocatello, ID, December 15, 1997.
 348. S. Ozcelik, J. Tyler, R. Yender, K. L. Moore, and **D.S. Naidu**, *Experimental Results: Control of a Gas Metal Arc Welding (GMAW) Process*, Technical Report, T.R. 97/98 006, Measurement and Control Engineering Research Center, College of Engineering, Idaho State University, Pocatello, ID, November 5, 1997.
 349. J. Tyler, R. Yender, K. L. Moore, and **D.S. Naidu**, *Hardware Design, Software Design, and Operational Procedures for the Automated Welding System*, Technical Report, T.R. 97/98 007, Measurement and Control Engineering Research Center, College of Engineering, Idaho State University, Pocatello, ID, November 5, 1997.
 350. K.L. Moore, **D.S. Naidu**, S. Ozcelik, J. Tyler and R. Yender, *Advanced Welding Control Project*, Final Report, Measurement and Control Engineering Research Center, College of Engineering, Idaho State University, Pocatello, ID, November 10, 1997.
 351. **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.
 352. K.L. Moore, **D.S. Naidu**, S. Ozcelik, R. Yender and J. Tyler, *Advanced Welding Control Project*, Annual Report, Measurement and Control Engineering Research Center, College of Engineering, Idaho State University, Pocatello, ID, July 7, 1997.
 353. S. Ozcelik and K. L. Moore and **D.S. Naidu**, *Adaptive control of a Gas Metal Arc Welding (GMAW) Process*, Technical Report, T. R. 96/97 002, Measurement and Control Engineering Research Center, Idaho State University, College of Engineering, Idaho State University, Pocatello, ID, April 14, 1997.
 354. H. Singh and **D.S. Naidu**, *Unified Approach to Linear Quadratic Regulator with Time-Scale Property*, Research Report, Measurement and Control Engineering Research Center, Idaho State University, Pocatello, ID, February 1997.
 355. K.L. Moore, **D.S. Naidu**, M. Abdelrahman, and A. Yesildirek, *Advanced Welding Control Project*, Technical Report, T.R. 95/96 005, Measurement and Control Engineering Research Center, College of Engineering, Idaho State University, Pocatello, ID, June 28, 1996.
 356. H. Singh, **D.S. Naidu**, and J. N. Peterson, *Eigenvalue Assignment of Unified Systems with Slow and Fast Modes*, Technical Report, T.R. 95/96 001, Measurement and Control Engineering Research Center, College of Engineering, Idaho State University, Pocatello, ID, September 18, 1995.
 357. H. Singh, **D.S. Naidu**, and K.L. Moore, *Analysis and Design of Two-Time Scale Systems: A Unified Approach*, Technical Report, T.R. 94/95 005, Measurement

- and Control Engineering Research Center, College of Engineering, Idaho State University, Pocatello, ID, June 26, 1995.
358. **D.S. Naidu** and A.J. Calise, *Singular Perturbations and Time-Scales in Guidance, Navigation, and Control of Aerospace Systems: Survey*, Technical Report, T.R. 94/95 007, Measurement and Control Engineering Research Center, College of Engineering, Idaho State University, Pocatello, ID, May 26, 1995.
 359. C.D. Charalambous, **D.S. Naidu**, and K.L. Moore, "Connecting Risk-Sensitive Control and Differential Games in Infinite Dimensions", Technical Report, T.R. 94/95 009, Measurement and Control Engineering Research Center, College of Engineering, Idaho State University, Pocatello, ID, 1995.
 360. H. Singh and **D.S. Naidu**, *On Regional Pole Placement Using Linear Quadratic Regulator Theory*, Technical Report, T.R. 94/95 006, Measurement and Control Engineering Research Center, College of Engineering, Idaho State University, Pocatello, ID, March 7, 1995.
 361. M.A. Abdelrahman, **D.S. Naidu**, C.D. Charalambous, and K.L. Moore, *An Observer for a Class of Nonlinear Systems Arising in Nuclear and Chemical Reactors*, Research Report, Measurement and Control Engineering Research Center, College of Engineering, Idaho State University, Pocatello, ID, January 27, 1995.
 362. H. Singh and **D.S. Naidu**, *Eigenvalue Placement for Two-Time Scale Systems Using Linear Quadratic Regulator Theory*, Technical Report, T.R. 94/95 008, Measurement and Control Engineering Research Center, College of Engineering, Idaho State University, Pocatello, ID, January 24, 1995.
 363. M. Abdelrahman, **D.S. Naidu**, K.L. Moore, and C. Watts, *Neural Network Technology for Tank Farm Environmental Surveillance*, Research Report, Measurement and Control Engineering Research Center, College of Engineering, Idaho State University, Pocatello, ID, November 1994.
 364. **D.S. Naidu**, K.L. Moore, and P. Wheeler, *Neural Network Technology for Tank Farm Environmental Surveillance*, Final Research Report, College of Engineering, Idaho State University, Pocatello, Idaho, December 1993.
 365. **D.S. Naidu**, K.L. Moore, and P. Wheeler, *Neural Network Model for Distillation Column/Reboiler System*, Research Report, College of Engineering, Idaho State University, Pocatello, Idaho, February 1993.
 366. S. Srinivasan, K.L. Moore and **D.S. Naidu**, *Degenerate and Asymptotic Solutions for Hopfield Nets with Learning*, Research Report, College of Engineering, Idaho State University, Pocatello, Idaho, August 1992.
 367. **D.S. Naidu**, K.L. Moore, P. Wheeler, and J. Abraham, *Neural Network Technology for Process Monitoring at the ICCP Tank Farm*, Research Feasibility Study Report, College of Engineering, Idaho State University, Pocatello, Idaho, July 17, 1992.
 368. L. Li and **D.S. Naidu**, *Orbital Plane Change Maneuver with Aerobraking for Mars Mission*, Research Report, College of Engineering, Idaho State University, Pocatello, ID, August 31, 1991.

369. C.D. Charalambous, J.L. Hibey, and **D.S. Naidu**, *Neighboring Optimal Guidance for an Aeroassisted Orbital Transfer Vehicle in the Presence of Modeling and Measurement Uncertainties*, Research Report, Department of Electrical and Computer Engineering, Old Dominion University, Norfolk, Virginia, February 1991.
370. **D.S. Naidu** and J.L. Hibey, *Guidance and Control of Aerospace Vehicles*, Final Research Report, Department of Electrical and Computer Engineering, Old Dominion University, Norfolk, VA, August 1990.
371. **D.S. Naidu**, *Orbital Plane Change with Aerocruise*, Research Report, Department of Electrical and Computer Engineering, Old Dominion University, Norfolk, VA, August 1990.
372. **D.S. Naidu**, J.L. Hibey, and C.D. Charalambous, *Fuel-Optimal Trajectories in the Presence of Modeling Uncertainties for Coplanar Orbital Transfer Vehicles*, Research Report, Department of Electrical and Computer Engineering, Old Dominion University, Norfolk, Virginia, December 1989.
373. **D.S. Naidu**, *Fuel Optimal Trajectories for Aeroassisted Orbital Transfer*, Research Report, Old Dominion University Research Foundation, Norfolk, VA, June 1989.
374. **D.S. Naidu**, *Fuel Optimal Trajectories of Aeroassisted Orbital Transfer with Plane Change*, Research Report, Department of Electrical and Computer Engineering, Old Dominion University, Norfolk, Virginia, June 1989.
375. **D.S. Naidu**, *Fuel-Optimal Trajectories for Noncoplanar Orbital Transfer Vehicles*, Research Report, Department of Electrical and Computer Engineering, Old Dominion University, Norfolk, Virginia, December 1988.
376. **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.
377. **D.S. Naidu**, C.D. Charamalambous, and J.L. Hibey, *Fuel-Optimal Trajectories for Coplanar Orbital Transfer Vehicles*, Research Report, Department of Electrical and Computer Engineering, Old Dominion University, Norfolk, Virginia, June 1988.
378. **D.S. Naidu**, *Guidance and Control Strategies for Aerospace Vehicles*, Research Report, Department of Electrical and Computer Engineering, Old Dominion University, Norfolk, Virginia, December 1987.
379. **D.S. Naidu** and D.B. Price, *Impact of Atmospheric Scale Height on the performance of Aeroassisted Coplanar Orbital Transfer Vehicles*, Research Report, Department of Electrical and Computer Engineering, Old Dominion University, Norfolk, Virginia, June 1987.
380. **D.S. Naidu**, *Singular Perturbations and Time Scales in Discrete Control Systems: an Overview*, Research Report, Department of Electrical and Computer Engineering, Old Dominion University, Norfolk, Virginia, June 1987.
381. **D.S. Naidu** and D.B. Price, *Method of Matched Asymptotic Expansions*, Research Report, NASA Langley Research Center, Hampton, Virginia, April 1987.

382. **D.S. Naidu** and D.B. Price, *Singular Perturbations and Time Scales (SPaTS) in Digital Flight Control Systems*, Research Report, NASA Langley Research Center, Hampton, Virginia, November 1986.
383. **D.S. Naidu**, *Guidance and Control Strategies for Aerospace Vehicles*, Research Report, NASA Langley Research Center, Hampton, Virginia, October 1986.
384. **D.S. Naidu**, *Characteristics of Singular Perturbations and Time Scales in Continuous and Discrete Control Systems*, Research Report, NASA Langley Research Center, Hampton, Virginia, August 1986.
385. **D.S. Naidu** and D.B. Price, *Time Scale Analysis of a Closed-Loop Optimal Control System*, Research Report, NASA Langley Research Center, Hampton, Virginia, June 1986.
386. **D.S. Naidu** and D.B. Price, *Time Scale Analysis of a Digital Flight Control Systems*, Research Report, NASA Langley Research Center, Hampton, Virginia, April 1986.

X. Book Reviews

(In addition to being on the Editorial Boards of journals, I contribute regularly to book review feature for these and other journals and websites such as Amazon. As of date, published over 100 book reviews).

387. **D.S. Naidu**, Review of the book, *Renewable Energy Technologies and Resources* by Nader Anani, ARTECH HOUSE, Boston/London, USA, 2019, was published online in *Amazon.com* on 15 August 2021.
388. **D.S. Naidu**, Review of the book, *Multi-Stage Flash Desalination: Modeling, Simulation, and Adaptive Control* by Waldai, Abraha, CRC Press, Boca Raton, FL, USA, 2016, was published online in *Amazon.com* on 09 May 2016.
389. **D.S. Naidu**, Review of the book, *Power Electronics Basics: Operating Principles, Design, Formulas, and Applications*, by Rozanov, Ryvkin, Chaplygin and Voronin, CRC Press, Boca Raton, FL, 2015, was published online in *Amazon.com* on 04 December 2015.
390. **D.S. Naidu**, Review of the book, *Grid Integration and Dynamic Impact of Wind Energy*, by Vittal, V. and Ayyanar, R., Springer, 2012, was published online in *Amazon.com* on 27 April 2014.
391. **D.S. Naidu**, Review of the book, *Control and Optimization Methods for Electric Smart Grids*, by Chakraborty, Aranya, Ilic, Marija D. (Eds.), Springer, 2012, was published online in *Amazon.com* on 19 April 2014.
392. **D.S. Naidu**, Review of the book, *Optimization and Security Challenges in Smart Power Grids*, by Pappu, Vijay, Carvalho, Marco, Pardalos, Panos (Eds.), Springer, 2013, was published online in *Amazon.com* on 18 April 2014.
393. **D.S. Naidu**, Review of the book, *Optimization for Industrial Problems*, by Bangert, P., Springer, 2012, was published online in *Amazon.com* on 18 April 2014.
394. **D.S. Naidu**, Review of the book, *Infinite-Horizon Optimal Control in the Discrete-Time Framework*, by BLOT, J. and HAYEK, N, Springer, 2014, was published online in *Amazon.com* on 15 April 2014.
395. **D.S. Naidu**, Review of the book, *Modern Linear Control Design: A Time-Domain Approach*, by Caravani, P., Springer, 2013, was published online in *Amazon.com* on 08 April 2014.
396. **D.S. Naidu**, Review of the book, *Optimal Control of Hybrid Vehicles*, by Jager et. al, Springer, 2013, was published online in *Amazon.com* on 03 April 2014.
397. **D.S. Naidu**, Review of the book, *Linear-Quadratic Controls in Risk-Averse Decision Making: Performance-Measure Statistics and Control Decision Optimization* by K.D. Pham, Springer, 2013, was published online in *Amazon.com* on 21 March 2014.
398. **D.S. Naidu**, Customers have found your (Professor Naidu's) book reviews helpful 6 times", published in *Amazon.com*, 17 March 2014.
399. **D.S. Naidu**, Review of the book, *Communication Networks for Smart Grids: Making Smart Grid Real*, by Budka, Kenneth C., Deshpande, Jayant G., Thottan,

- Marina., Springer-Verlag, Heidelberg, 2014, was published online in *Amazon.com* on 13 March 2014.
400. **D.S. Naidu**, Review of the book, *Cyber Security: Deterrence and IT Protection for Critical Infrastructures*, by Martellini, Maurizio (Ed.), Springer-Verlag, Heidelberg, 2013, was published online in *Amazon.com* on 08 February, 2014.
 401. **D.S. Naidu**, Review of the book, *LaTeX and FRIENDS*, by van Dongen, Marc, Springer-Verlag, Heidelberg, 2012, was published online in *Amazon.com* on 17 January, 2014.
 402. **D.S. Naidu**, Review of the book, *Applied Cyber-Physical Systems*, by Suh, S.C.; Tanik, U.J; Carbone, J.N.; Eroglu, A. (Eds.), Springer Science + Business Media, New York, NY, 2014., was published online in *Amazon.com* on 09 January, 2014.
 403. **D.S. Naidu**, Review of the book, *PID Control in the Third Millennium: Lessons Learned and New Approaches*, by Vilanova, Ramon; Visioli, Antonio (Eds.), Springer-Verlag, London, UK, 2012, was published online in *Amazon.com* on 03 January, 2014.
 404. **D.S. Naidu**, Review of the book, *Optimal Control and Optimization of Stochastic Supply Chain Systems*, by SONG, D-P, Springer-Verlag, London, UK, 2013, was published online in *Amazon.com* on 23 December, 2013. 78-1-4471-4723-7)
 405. **D.S. Naidu**, Review of the book, *Management of Complex Multi-reservoir Water Distribution Systems using Advanced Control Theoretic Tools and Techniques*, by Chmielowski, W.Z., Springer-Verlag, Berlin, 2013, was published online in *Amazon.com* on 18 December, 2013.
 406. **D.S. Naidu**, Review of the book, *Dynamic Models and Control of Biological Systems*, by V.S.H. Rao and P.R.S. Rao, Springer-Verlag, Berlin, 2009, was published online in *Amazon.com* on 17 December, 2013.
 407. **D.S. Naidu**, Review of the book, *Feedback and Control for Everyone*, by G. Ledder, Springer-Verlag, Berlin, 2010, was published online in *Amazon.com* on 13 December, 2013.
 408. **D.S. Naidu**, Review of the book, *Mathematics for the Life Sciences: Calculus, Modeling, Probability, and Dynamical Systems*, by G. Ledder, Springer-Verlag, Berlin, 2013, was published online in *Amazon.com* on 25 November, 2013.
 409. **D.S. Naidu**, Review of the book, *Nonlinear Dynamics in Complex Systems: Theory and Applications for the Life-, Neuro- and Natural Sciences*, by A. Fuchs, Springer-Verlag, Italia, 2013, was published online in *Amazon.com* on 21 November, 2013.
 410. **D.S. Naidu**, Review of the book, *Introduction to Modeling Biological Cellular Control Systems*, by W. Liu, Springer-Verlag, Italia, 2012, was published online in *Amazon.com* on 19 November, 2013.
 411. **D.S. Naidu**, Review of the book, *Cyber-Physical Systems: Driving force for innovations in mobility, health, energy and production*, edited by ACATECH¹¹, Springer, London, United Kingdom (UK), 2011, was published online in *Amazon.com* on 15 November, 2013.

¹¹ACATECH: National Academy of Engineering and Technology, Germany

412. **D.S. Naidu**, Review of the book, *Control of Cyber-Physical Systems*, edited by D.C. Tarraf, Springer, London, United Kingdom (UK), 2013, was published online in *Amazon.com* on 24 October 2013.
413. **D.S. Naidu**, Review of the book, *Applied Control Systems Design*, by M.S. Mahmoud and Y.Xia, Springer, London, United Kingdom (UK), 2012, was published online in *Amazon.com* on 03 October 2013.
414. **D.S. Naidu**, Review of the book, *Random Signals and Processes Primer with MATLAB*, by Suresh Devasahayam, Springer, Berlin, Heidelberg, Germany, 2013, was published online in *Amazon.com* on 03 October 2013.
415. **D.S. Naidu**, Review of the book, *Complexity, Analysis and Control of Singular Biological Systems*, Lecture Notes in Control and Information Sciences, Volume 4212, Edited by Qingling Zhang, Chao Liu, Xue Zhang, Springer, Berlin, Heidelberg, Germany, 2013, was published online in *Amazon.com* on 24 July 2013.
416. **D.S. Naidu**, Review of the book, *Geometric Optimal Control: Theory, Methods and Examples, Springer, Berlin 2012* by SCHATTNER, Heinz and LEDZEWICZ, Urszula, was published online in *Amazon.com* on 17 June 2013.
417. **D.S. Naidu**, Review of the book, *Signals and Systems in Biomedical Engineering: Signal Processing and Physiological Systems Modeling, 2nd Edition* by Suresh Devasahayam, Springer, Berlin, Heidelberg, Germany, 2013 was published online in *Amazon.com* on 17 June 2013.
418. **D.S. Naidu**, Review of the book, *Control Theory for Engineers A Primer* by Brigitte d'Andréa-Novel and Michael De Lara, Springer, Berlin, Heidelberg, Germany, 2013 was published online in *Amazon.com* on 11 June 2013.
419. **D.S. Naidu**, Review of the book, *Mono and Multivariable Control and Estimation: Linear, Quadratic and LMI Methods* by Eric Ostertag, Springer, Berlin, Heidelberg, Germany, 2011 was published online in *Amazon.com* on 22 May 2013.
420. **D.S. Naidu**, Review of the book, *Modeling and Control of a Large Nuclear Reactor: Three-Time Scale Approach* by S.R. Shimjith, A.P. Tiwari, B. Bandyopadhyay, Lecture Notes in Control and Information Sciences, Volume 431, Springer, Berlin, Heidelberg, 2013, was published online in *Amazon.com* on 13 May 2013.
421. **D.S. Naidu**, Review of the book, *Functional Analysis, Calculus of Variations and Optimal Control* by F. Clarke, Springer, Berlin, Heidelberg, 2013 published online in *Amazon.com* on 09 May 2013.
422. **D.S. Naidu**, Review of the book, *Biomedical Applications of Control Engineering* by S.S. Hacisalihzade, Lecture Notes in Control and Information Sciences, Volume 441, Springer, Berlin, Heidelberg, Germany, 2013, was published online in *Amazon.com* on 06 May 2013.
423. **D.S. Naidu**, Review of the book, *Singular Perturbation Theory* by L. Skinner, Springer, Berlin, Heidelberg, Germany, 2013, was published online in *Amazon.com* on 01 May 2013.
424. **D.S. Naidu**, Review of the book, *Introduction to Perturbation Methods* by M. Holmes, Springer, Berlin, Heidelberg, Germany, 2013, was published online in *Amazon.com* on 27 March 2013.

425. **D.S. Naidu**, Review of the book, *Internet-based Control Systems: Design and Applications* by S.-H. Yang, Springer, Berlin, Heidelberg, Germany, 2011, was published online in *Amazon.com* on 25 March 2013.
426. **D.S. Naidu**, Review of the book, *Sliding Mode Control for Synchronous Electric Drives* by S.E. Ryvkin and E. Lever, CRC Press, Boca Raton, FL, 2011, was published online in *Amazon.com* on 19 March 2013.
427. **D.S. Naidu**, Review of the book, *Robust and Adaptive Control: With Aerospace Applications*, by E. Lavretsky and Kevin Wise, Springer-Verlag, 2013, was published online in *Amazon.com* on December 29, 2012.
428. **D.S. Naidu**, Review of the book, *Modeling and Control of Sustainable Power Systems: Towards Smarter and Greener Electric Grids* by Lingfeng Wang, Editor Springer-Verlag, 2012, was published in *Amazon.com*, December 26, 2012
429. **D.S. Naidu**, Review of the book, *Singular Perturbations and Hysteresis*, by M. P. Mortell, R. E. OMalley, A. Pokrovskii and V. Sobolev, Society of Industrial and Applied Mathematics (SIAM), Philadelphia, PA, 2005, published in *Intl. Journal of Robust and Nonlinear Control*, Vol. 17, pp. 1155-1156, August 2007.
430. **D.S. Naidu**, Review of the two books, *The Calculus Of Variations And Functional Analysis With Optimal Control and Applications in Mechanics*, by L. P. Lebedev and M. J. Cloud, World Scientific, Singapore, Singapore, 2003, and *An Introduction to Modern Variational Techniques in Mechanics and Engineering*, by B. Z. Vujanovic and T. M. Atanackovic, published in *Intl. Journal of Robust and Nonlinear Control*, Vol. 16, pp. 637-639, July 2006.
431. **D.S. Naidu**, Review of the book, *Soft computing and intelligent systems design: theory, tools and applications*, by F. O. Karry and C. De Silva, Pearson, Addison-Wesley, New York, NY, 2004, published in *Intl. Journal of Robust and Nonlinear Control*, Vol. 16, pp. 548-551, July 2006.
432. **D.S. Naidu**, Review of the book, *Design of Nonlinear Control Systems with the Highest Derivative in Feedback*, by V. D. Yurkevich, World Scientific, Singapore, 2004, published in *Intl. Journal of Robust and Nonlinear Control*, Vol. 15, pp. 553-557, August 2005.
433. **D.S. Naidu**, Review of the book, *A First Course in Fuzzy and Neural Control* by H. T. Nguyen, N. R. Prasad, C. L. Walker and E. A. Wolker, Chaptman & Hall/CRC Press, Boca Raton, FL, 2003, published in *SIAM Review*, Vol. 46, No. 1, pp. 176-179, 2004.
434. **D.S. Naidu**, *Featured Review of (7) Books on Linear Systems*, published in *International Journal of Robust and Nonlinear Control*, Vol., 12, pp. 555-560, May 2002.
435. **D.S. Naidu**, *Featured Review of (15) Books on Optimal Control*, published in *International Journal of Robust and Nonlinear Control*, Vol., 10, pp. 1345-1358, 30 December 2000.
436. **D.S. Naidu**, Review of the book, *Introduction to Optical Engineering (by F. T. S. Yu and X. Yang)*, Cambridge University Press, Cambridge, UK, 1997, published in *MECHATRONICS: The Science of Intelligent Machines, An International Journal*, Vol. 10, pp. 713-715, September 2000.

437. **D.S. Naidu**, Review of the book, *Vibration Control of Active Structures (by A. Preumont)*, Kluwer Academic Publishers, Boston, MA, 1997, published in *MECHATRONICS: The Science of Intelligent Machines, An International Journal*, Vol. 10, pp. 425-427, April 2000.
438. **D.S. Naidu**, Review of the book, *Advanced Modern Control System Theory and Design, by S. M. Shinnars*, John Wiley & Sons, New York, NY, 1998, published in *Intl. Journal of Robust and Nonlinear Control*, Vol. 9, pp. 903-904, October 1999.
439. **D.S. Naidu**, Review of the book, *Neural Networks for Identification, Prediction and Control, by D. Tham and X. Liu*, Springer-Verlag, London, UK, 1995, published in *Intl. Journal of Robust and Nonlinear Control*, Vol. 9, pp. 581-582, July 1999.
440. **D.S. Naidu**, Review of the book, *Spacecraft Navigation and Guidance, by M. Noton*, Springer-Verlag, Berlin, Germany, 1998, published in *Intl. Journal of Robust and Nonlinear Control*, Vol. 9, pp. 447-448, June 1999.
441. **D.S. Naidu**, Review of the book, *Nonlinear Control Design, by R. Marino and P. Tomei*, Prentice Hall International (UK), London, UK, 1995, published in *Intl. Journal of Robust and Nonlinear Control*, Vol. 8, pp. 459-460, April 1998.
442. **D.S. Naidu**, Review of the book, *Understanding Smart Sensors (R. Frank)*, Artech House, Boston, MA, 1996, published in *MECHATRONICS: The Science of Intelligent Machines, An International Journal*, Vol. 8, pp. 287-288, April 1998.
443. **D.S. Naidu**, Review of the book, *Mechatronics Systems Design (D. Shetty and R. A. Kolk)*, PWS Publishing, Boston, MA, 1997, published in *MECHATRONICS: The Science of Intelligent Machines, An International Journal*, Vol. 8, pp. 83-84, February 1998.
444. **D.S. Naidu**, Review of the book, *Control and Dynamic Systems: Advances in Theory and Applications, Volumes 70, 71, 72, 73, 74, edited by C. T. Leondes*, Academic Press, San Diego, CA, 1995, published in *Intl. Journal of Robust and Nonlinear Control*, Vol. 7, pp. 507-508, May 1997.
445. **D.S. Naidu**, Review of the book, *Advanced Robotics & Intelligent Machines (J.O. Gray and D.G. Caldwell, Edrs.)*, Peter Peregrinus Ltd, Stevenage Herts, UK, 1996, published in *MECHATRONICS*, Vol. 6, pp. 853-854, October 1996.
446. **D.S. Naidu**, Review of the book, *Electro-Mechanical Engineering (by C. Fraser and J. Milne)*, The Institute of Electrical and Electronic Engineers, Inc., New York, and McGraw-Hill International (UK) Ltd., 1994, published in *MECHATRONICS: The Science of Intelligent Machines, An International Journal*, Vol. 6, pp. 729-731, September 1996.
447. **D.S. Naidu**, Review of the book, *Understanding Electro-Mechanical Engineering, An Introduction to Mechatronics (by L.Kamm)*, The Institute of Electrical and Electronic Engineers, Inc., New York, USA, 1996, published in *MECHATRONICS*, Vol. 6, pp. 611-612, August 1996.
448. **D.S. Naidu**, Review of the book, *Mechatronics: Electronic Control Systems Engineering in Mechanical Engineering (by W. Bolton*, Longman Scientific & Techni-

- cal, Essex, UK, 1995, published in *MECHATRONICS: The Science of Intelligent Machines, An International Journal*, Vol. 6, pp. 491-493, June 1996.
449. **D.S. Naidu**, Review of the book, *Mechatronics: Designing Intelligent Machines: Volume 2: Concepts in Artificial Intelligence (by J. Johnson and P. Picton)*, Butterworth-Heinemann, Oxford, UK, 1995, published in *MECHATRONICS: The Science of Intelligent Machines, An International Journal*, Vol. 6, pp. 241-242, March 1996.
450. **D.S. Naidu**, Review of the book, *Mechatronics: Designing Intelligent Machines: Volume 1: Perception, Cognition, and Execution (edited by G. Rzevski)*, Butterworth-Heinemann, Oxford, UK, 1995, published in *MECHATRONICS: The Science of Intelligent Machines, An International Journal*, Vol. 5, pp. 715-716, September 1995.
451. **D.S. Naidu**, Review of the book, *Optimal Control: Linear Quadratic Methods (by B.D.O. Anderson and J.B. Moore)*, Prentice Hall, Englewood Cliffs, NJ, 1990, published in *IEEE Transactions on Automatic Control*, Vol. 40, pp. 1504-1505, August 1995.
452. **D.S. Naidu**, Review of the book, *Sensors and Control Systems in Manufacturing (by S. Soloman)*, McGraw-Hill, New York, NY, 1994, published in *MECHATRONICS: The Science of Intelligent Machines, An International Journal*, Vol. 5, pp. 457-458, June 1995.
453. **D.S. Naidu**, Review of the book, *Kalman Filtering: Theory and Practice (by M. Grewal and A.P. Andrews)*, PTR Prentice Hall, Englewood Cliffs, NJ, 1993, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 969-971, December 1994.
454. **D.S. Naidu**, Review of the book, *Theory and Application of Kalman Filtering (by G. Minkler and J. Minkler)*, Megallan Book Company, Palm Bay, FL, 1993, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 968-969, December 1994.
455. **D.S. Naidu**, Review of the book, *Robotics and Remote Systems for Hazardous Environments (by M. Jamshidi and P.J. Eicker, Ed.)*, PTR Prentice Hall, Englewood Cliffs, NJ, 1994, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 965-966, December 1994.
456. **D.S. Naidu**, Review of the book, *Space Robotics: Dynamics and Control (by Y. Xu and T. Kanade, Ed.)*, Kluwer Academic Publishers, Boston, MA, 1993, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 963-964, December 1994.
457. **D.S. Naidu**, Review of the book, *Nonlinear Systems Analysis, Second Edition (by M. Vidyasagar)*, PTR Prentice Hall, Englewood Cliffs, NJ, 1993, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 943-945, December 1994.
458. **D.S. Naidu**, Review of the book, *Nonlinear Systems, (by H.K. Khalil)*, Macmillan Publishing Company, New York, NY, 1992, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 945-946, December 1994.

459. **D.S. Naidu**, Review of the book, *Introduction to Dynamics and Control of Flexible Structures*, (by J.L. Junkins and Y. Kim), American Institute of Aeronautics and Astronautics, Washington, DC, 1993, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 947–948, December 1994.
460. **D.S. Naidu**, Review of the book, *Advanced Control System Design* (by C.-F. Fang), PTR Prentice Hall, Englewood Cliffs, NJ, 1994, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 948–950, December 1994.
461. **D.S. Naidu**, Review of the book, *Tactical and Strategic Missile Guidance, Second Edition* (by P. Zarchan), American Institute of Aeronautics and Astronautics, Washington, DC, 1994, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 950–951, December 1994.
462. **D.S. Naidu**, Review of the book, *Nonlinear Process Control* (by P.L. Lee, Ed.), Springer-Verlag, New York, NY, 1993, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 952–953, December 1994.
463. **D.S. Naidu**, Review of the book, *Process Control Engineering* (by M. Rao and H. Qiu), Gordon Breach Publishers, Langhore, PA, 1993, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 953–954, December 1994.
464. **D.S. Naidu**, Review of the book, *Control of Polymerization Reactors* (by F.J. Schork, P.B. Deshpande and K.W. Leffew), Marcel Dekker, Inc., New York, NY, 1993, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 954–955, December 1994.
465. **D.S. Naidu**, Review of the book, *Parallel Algorithms for Optimal Control of Large Scale Linear Systems* (by Z. Gajic and X. Shen), Springer-Verlag, New York, NY, 1993, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 956–957, December 1994.
466. **D.S. Naidu**, Review of the book, *A Mathematical Introduction to Robotic Manipulation* (by R.M. Murray, Z.Li and S.S. Sastry), CRC Press, Boca Raton, FL, 1993, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 958–959, December 1994.
467. **D.S. Naidu**, Review of the book, *Manipulation Robots: Dynamics, Control and Optimization* (by F.L. Chernousko, N.N. Bolotnik and V.G. Gradetsky), CRC Press, Boca Raton, FL, 1994, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 960–961, December 1994.
468. **D.S. Naidu**, Review of the book, *Control of Robotic Manipulators* (by F.L. Lewis, C.t. Abdallah and D.M. Dawson), Macmillan Publishing Company, New York, NY, 1993, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 961–962, December 1994.
469. **D.S. Naidu**, Review of the book, *Intelligent Robotic Systems: Theory, Design and Implementation* (by K.P. Valavanis and G.N. Saridis), Kluwer Academic Publishers, Boston, MA, 1992, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 962–963, December 1994.
470. **D.S. Naidu**, Review of the book, *Mathematical Control Theory: An Introduction* (by J. Zabczyk), Birkhauser, Boston, MA, 1992, published in *IEEE Control Systems Magazine*, Vol. 14, pp. 83, 86, October 1994.

471. **D.S. Naidu**, Review of the book, *Stability Theory (by P.C. Parks and V. Han)*, Prentice Hall International (U.K.) Limited, London, UK, 1993, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 572–573, September 1994.
472. **D.S. Naidu**, Review of the book, *Applications of Lyapunov Methods of Stability (by A. Halanay and V. Rasvan)*, Kluwer Academic Publishers, Dordrecht, The Netherlands, 1993, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 570–572, September 1994.
473. **D.S. Naidu**, Review of the book, *Absolute Stability of Nonlinear Control Systems (by L.X.-Xin)*, Kluwer Academic Publishers, Dordrecht, The Netherlands, 1993, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 569–570, September 1994.
474. **D.S. Naidu**, Review of the book, *MATLAB Tool Boxes and Applications for Control (Edrs. A.J. Chipperfield and P.J. Fleming)*, Peregrinus Limited, London, UK, 1993, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 559–561, September 1994.
475. **D.S. Naidu**, Review of the book, *An Introduction to Fuzzy Control (by D. Drankov, H. Hellendoorn and M. Reinfrank)*, Springer-Verlag, New York, New York, 1993, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 561–563, September 1994.
476. **D.S. Naidu**, Review of the book, *Optimal Control and the Calculus of Variations (by E.R. Pinch)*, Oxford University Press, Oxford, UK, 1993, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 563–564, September 1994.
477. **D.S. Naidu**, Review of the book, *Optimal Control: An Introduction to the Theory and Applications (by L.M. Hocking)*, Oxford University Press, Oxford, UK, 1991, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 565–566, September 1994.
478. **D.S. Naidu**, Review of the book, *Mathematical Control Theory: An Introduction (by J. Zabczyk)*, Birkhauser, Boston, Massachusetts, 1992, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 566–567, September 1994.
479. **D.S. Naidu**, Review of the book, *Dynamic Optimization: The Calculus of Variations and Optimal Control in Economics and Management, Second Edition (by M.I. Kamien and N.I. Schwartz)*, Elsevier Science Publishing Company, New York, New York, 1991, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 567–567, September 1994.
480. **D.S. Naidu**, Review of the book, *Optimal Control and the Calculus of Variations (by E.R. Finch)*, Oxford University Press, New York, NY, 1993, published in *IEEE Control Systems Magazine*, Vol. 14, pp.101, 104, June 1994.
481. **D.S. Naidu**, Review of the book, *Mechatronics: Electromechanics and Control Mechatronics (by D.K. Miu)*, Springer-Verlag, New York, NY, 1993, published in *MECHATRONICS*, Vol. 4, pp. 453-454, June 1994.
482. **D.S. Naidu**, Review of the book, *Algorithms for Computer-Aided Design of Multivariable Control Systems (by S. Bingulac, and H.F. VanLandingham)*, Marcel

- Dekker, Inc., New York, 1993, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 157-158, March 1994.
483. **D.S. Naidu**, Review of the book, *Process Control and Identification (by W.F. Ramirez)*, Academic Press, San Diego, CA, 1994, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 158-160, March 1994.
484. **D.S. Naidu**, Review of the book, *Computer-Assisted Simulation of Dynamic Systems with Block Diagram Languages*, C.R.C. Press, Boca Raton, FL, 1993, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 160-161, March 1994.
485. **D.S. Naidu**, Review of the book, *Knowledge-Based Systems for Engineers and Scientists*, C.R.C. Press, Boca Raton, FL, 1993, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 162-163, March 1994.
486. **D.S. Naidu**, Review of the book, *Constrained Optimization in the Calculus of Variations and Optimal Control Theory (by J.Gregory and C.Lin)*, Van Nostrand Reinhold, New York, NY, 1992, published in *Control: Theory and Advanced Technology*, Vol. 10, pp. 163-165, March 1994.
487. **D.S. Naidu**, Review of the book, *Polynomial Methods in Optimal Control and Filtering (edited by K.J. Hunt)*, Peter Peregrinus Limited, Herts, UK, 1993, published in *Control: Theory and Advanced Technology*, Vol. 9, pp. 1074-1075, December 1993.
488. **D.S. Naidu**, Review of the book, *Applications of Artificial Intelligence in Process Control (edited by L.Boullart, A. Krijgsman and R.A. Vingerhoeds)*, Pergamon Press, Oxford, UK, 1992, published in *Control: Theory and Advanced Technology*, Vol. 9, pp. 1073-1074, December 1993.
489. **D.S. Naidu**, Review of the book, *Control Theory: A Guided Tour (by J.R. Leigh)*, Peter Peregrinus Limited, Herts, UK, 1992, published in *Control: Theory and Advanced Technology*, Vol. 9, pp. 1072-1074, December 1993.
490. **D.S. Naidu**, Review of the book, *A Unified Computational Approach to Optimal Control Problems (by K.L. Teo, C.J. Goh and K.H. Wong)*, Longman Scientific and Technical, Harlow, UK, 1991, published in *Control: Theory and Advanced Technology*, Vol. 9, pp. 1071-1072, December 1993.
491. **D.S. Naidu**, Review of the book, *Optimal Control (by F. L. Lewis)*, John-Wiley and Sons, New York, 1986, published in *IEEE Transactions on Automatic Control*, AC-32, 944, Oct. 1987.
492. **D.S. Naidu**, Review of the book, *Large Scale Systems Modeling (by M.S. Mahmoud and M.G. Singh)*, Pergamon Press, Oxford, 1981, published in *IEEE Transactions on Automatic Control*, AC-31, 480, 1986.
493. **D.S. Naidu**, Review of the book, *Optimal Relay and Saturating Control System Synthesis (by E. P. Ryan)*, Peter Perigrinus Ltd., Herts, 1982, published in *IEEE Control Systems Magazine*, 6, 49, 1986.
494. **D.S. Naidu**, Review of the book, *Digital Control System Analysis and Design (by C.R. Phillips and N.T. Nagle, Jr.)*, Prentice Hall, Englewood Cliffs, NJ, 1984, published in *Proceedings of the IEEE*, Vol. 74, Nr. 5, pp. 765-766, May 1986.

495. **D.S. Naidu**, Review of the book, *Large Scale Systems Modeling and Control* (by *M. Jamshidi*), North Holland, Amsterdam, 1983, published in *IEEE Transactions on Systems, Man and Cybernetics*, SMC-15, 1985.
496. **D.S. Naidu**, Review of the book, *Microcomputer Systems: the 8086/8088 Family, Architecture, Programming, and Design* (by *Y. C.Liu and G.A. Gibson*), Prentice Hall, Englewood Cliffs, 1984, published in *Microprocessing and Microprogramming*, 14, 1985.
497. **D.S. Naidu**, Review of the book, *Digital Control System Analysis and Design* (by *C.R. Phillips and N.T. Nagle, Jr.*), Prentice Hall, Englewood Cliffs, 1984, published in *IEEE Transactions on Systems, Man, and Cybernetics*, Vol. SMC-15, 452-453, 1985.
498. **D.S. Naidu**, Review of the book, *Microprocessors: Hardware, Software, and Design Applications* (by *W.V. Subbarao*), Reston Publ. Co., Reston, 1984, published in *Microprocessors and Microsystems*, Vol. 9, 86-87, 1985.
499. **D.S. Naidu**, Review of the book, *Microprocessor and Microcomputer Development Systems* (by *M. Rafiqzaman*), Harper & Row, New York, 1984, published in *Microprocessors and Microsystems*, 8, 253-254, 1984.

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