

PUBLICATIONS

Desineni Subbaram Naidu, PhD, Life Fellow IEEE¹

January 21, 2022

- **Name:** Desineni “Subbaram” Naidu
- **Citizenship:** United States of America (USA)
- **Office Address:**
Minnesota Power Jack Rowe Endowed Chair
Professor of Electrical Engineering
University of Minnesota Duluth (UMD)
273 MWAH, 1023 University Drive, Duluth, MN 55812, USA
Ph: (218) 726-6531; Email: dsnaidu@d.umn.edu
URL:<http://www.d.umn.edu/~dsnaidu>
Professor-Emeritus, Idaho State University

Published/Presented over 250 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 75 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, 1979.

¹Institute of Electrical and Electronics Engineers, “the world’s largest professional association for the advancement of technology”.

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, December 2021.
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. 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>
19. 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 Tomography,” in *Diagnostics*, 01 November 2021. <https://doi.org/10.3390/diagnostics11112025>
20. 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.
21. 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.
22. 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.compbiomed.2021.104210>,
23. 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>
24. 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>
25. 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)
26. 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.

27. 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.
28. 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 & Algorithms*, vol. 24, pp. 335-370, 2017 (*Survey paper with 157 references and collaborated with colleagues from Russia*).
29. 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.
30. 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)
31. 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.
32. 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.
33. 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/>
34. 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
35. 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>

36. 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
37. 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)
38. 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.
39. 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)
40. 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
41. **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.
42. **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.
43. **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)
44. **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.
45. 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.

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46. 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.
47. 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.
48. **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.
49. 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.
50. 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.
51. **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.
52. 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.
53. **D.S. Naidu**, "Singular Perturbations and Time Scales in Control Theory and Applications: Overview," Special Issue on Singularly Perturbed Dynamic Systems in Control Technology (edited by Z. Gajic) in *Dynamics of Continuous, Discrete and Impulsive Systems (DCDIS) Journal*, Vol. 9, pp. 233-278, June 2002 (**Invited Survey Paper**: 46 pages and 467 references). The number of citations this article received places it in the top 1% within the field according to *Essential Science Indicators*SM.
54. **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>)

⁷World Scientific and Engineering Academy and Society

55. 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.
56. 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.
57. K.L. Moore, M.A. Abdelrahman and **D.S. Naidu**, “Gas metal arc welding control: Part II-control strategy”, *Nonlinear Analysis: Theory, Methods & Applications*, Vol. 35, pp. 85-93, 1999.
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61. **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.
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68. **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.
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VI. Peer-Reviewed National or International Conferences or Meetings

93. Bipasha Kundu, and **D.S. Naidu**, Classification and Feature Extraction of Different Hand Movements from EMG Signal using Machine Learning based Algorithms, submitted (on 16 December 2020) to International Conference on Electrical, Communication, and Computer Engineering (ICECCE), Kuala Lumpur, Malaysia, June 12-13, 2021.
94. 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.
95. 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).
96. **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.
97. 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 1315, 2019.
98. **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.
99. 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.
100. 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.
101. 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.

102. 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.
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107. 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.
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⁸ASEE: American Society of Engineering Education

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 114. 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.
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 139. **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

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⁹World Scientific and Engineering Academy and Society

¹⁰World Scientific and Engineering Academy and Society

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VIII. Research/Technical Reports

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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).

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