

HOW TO FIND THE LITERATURE?

Helpful tips for beginners.



Source <https://cdn2.vectorstock.com/i/1000x1000/60/71/young-man-sitting-in-library-and-reading-vector-32476071.jpg>

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LEARNING OBJECTIVES

**By the end of this lesson
you will be able to**

- ✓ **find at least 5
contemporary
references for your
literature review.**



Source
<https://www.slideegg.com/image/catalog/70678-powerpoint%20template%20goals%20objectives.png>

A literature review is “critical analysis of a segment of a published body of knowledge through summary, classification, and comparison of prior research studies, reviews of literature, and theoretical articles”.

Literature in this context consist of



WHERE TO SEARCH LITERATURE

3) *In databases of scientific publications and citations*

ScienceDirect <https://www.sciencedirect.com/>

Scopus <https://www.scopus.com/>

Web of Science <https://webofknowledge.com>

Google Scholar <https://scholar.google.com>



Features of Google Scholar

Search all scholarly literature from one convenient place

- Explore related works, citations, authors, and publications
- Locate the complete document through your library or on the web
- Keep up with recent developments in any area of research
- Check who's citing your publications, create a public author profile

Getting better answers

- If you are *new to the subject*, it may be helpful to pick up the terminology from *secondary sources*. For example, try a Wikipedia article for "***Adaptive control***". It might suggest a Scholar search for "*Lyapunov stability*".

The screenshot shows a web browser window with the Wikipedia article for "Adaptive control". The browser's address bar shows the URL "en.wikipedia.org/wiki/Adaptive_control". The page content includes the Wikipedia logo, a navigation menu on the left, and the main article text. The article title "Adaptive control" is prominently displayed. Below the title, there is a "Contents" section with a list of links to different parts of the article: "1 Parameter estimation", "2 Classification of adaptive control techniques", "3 Applications", "4 See also", "5 References", "6 Further reading", and "7 External links". The "Parameter estimation" section is currently selected and expanded, showing a paragraph of text. The "Classification of adaptive control techniques" section is also visible, starting with the text "In general, one should distinguish between:". The browser's taskbar at the bottom shows the Windows logo, several application icons, and the system tray with the date and time "13.12.2021 7:36".

Getting better answers

- If the *search results are too specific* for your needs, check out what they're citing in their "References" sections. Referenced works are often *more general* in nature.

The screenshot shows a web browser window with the Wikipedia page for "Adaptive control". The browser's address bar shows the URL "en.wikipedia.org/wiki/Adaptive_control". The page content includes a "See also" section with links to "Nonlinear control", "Intelligent control", and "Lyapunov optimization". Below that is the "References" section, which lists nine numbered entries. The first entry is "Astrom, Karl (2008). *adaptive control*. Dover. pp. 25–26." The second entry is "Narendra, Kumpati S.; Han, Zhuo (August 2011). "adaptive control Using Collective Information Obtained from Multiple Models". *International Federation of Automatic Control*. **18** (1): 362–367. doi:10.3182/20110828-6-IT-1002.02237". The third entry is "Lavretsky, Eugene; Wise, Kevin (2013). *Robust adaptive control*. Springer London. pp. 317–353." The fourth entry is "Tao, Gang (2014). "Multivariable adaptive control: A survey". *Automatica*. **50** (11): 2737–2764. doi:10.1016/j.automatica.2014.10.015". The fifth entry is "Chowdhary, Girish; Johnson, Eric (2011). "Theory and flight-test validation of a concurrent learning adaptive controller". *Journal of Guidance, Control and Dynamics*. **34** (2): 592–607. doi:10.2514/1.46866". The sixth entry is "Chowdhary, Girish; Muehlegg, Maximilian; Johnson, Eric (2014). "Exponential parameter and tracking error convergence guarantees for adaptive controllers without persistency of excitation". *International Journal of Control*. **87** (8): 1583–1603. doi:10.2514/1.46866". The seventh entry is "Lavretsky, Eugene (2015). "Robust and Adaptive Control Methods for Aerial Vehicles". *Handbook of Unmanned Aerial Vehicles*. pp. 675–710. doi:10.1007/978-90-481-9707-1_50. ISBN 978-90-481-9706-4." The eighth entry is "Kannan, Suresh K.; Chowdhary, Girish Vinayak; Johnson, Eric N. (2015). "Adaptive Control of Unmanned Aerial Vehicles: Theory and Flight Tests". *Handbook of Unmanned Aerial Vehicles*. pp. 613–673. doi:10.1007/978-90-481-9707-1_61. ISBN 978-90-481-9706-4." The ninth entry is "Chowdhary, Girish; Johnson, Eric N; Chandramohan, Rajeev; Kimbrell, Scott M; Calise, Anthony (2013). "Guidance and control of airplanes under actuator failures and severe structural damage". *Journal of Guidance Control and Dynamics*. **36** (4): 1093–1104. doi:10.2514/1.58028". Below the references is the "Further reading" section, which lists ten books on adaptive control, including "Stability of Adaptive Controllers" by B. Egardt, "Adaptive Control: The Model Reference Approach" by I. D. Landau, "Robust Adaptive Control" by P. A. Ioannou and J. Sun, "Stable Adaptive Systems" by K. S. Narendra and A. M. Annaswamy, "Adaptive Control: Stability, Convergence and Robustness" by S. Sastry and M. Bodson, "Adaptive Control" by K. J. Astrom and B. Wittenmark, "Adaptive Control" by I. D. Landau, R. Lozano, and M. M'Saad, "Adaptive Control Design and Analysis" by G. Tao, "Adaptive Control Tutorial" by P. A. Ioannou and B. Fidan, "Adaptive Filtering Prediction and Control" by G. C. Goodwin and K. S. Sin, and "Nonlinear and Adaptive Control Design" by M. Krstic, I. Kanellakopoulos, and P. V. Kokotovic.

See also [\[edit \]](#)

- [Nonlinear control](#)
- [Intelligent control](#)
- [Lyapunov optimization](#)

References [\[edit \]](#)

- [↑] Astrom, Karl (2008). *adaptive control*. Dover. pp. 25–26.
- [↑] Narendra, Kumpati S.; Han, Zhuo (August 2011). "adaptive control Using Collective Information Obtained from Multiple Models". *International Federation of Automatic Control*. **18** (1): 362–367. doi:10.3182/20110828-6-IT-1002.02237.
- [↑] Lavretsky, Eugene; Wise, Kevin (2013). *Robust adaptive control*. Springer London. pp. 317–353.
- [↑] Tao, Gang (2014). "Multivariable adaptive control: A survey". *Automatica*. **50** (11): 2737–2764. doi:10.1016/j.automatica.2014.10.015.
- [↑] Chowdhary, Girish; Johnson, Eric (2011). "Theory and flight-test validation of a concurrent learning adaptive controller". *Journal of Guidance, Control and Dynamics*. **34** (2): 592–607. doi:10.2514/1.46866.
- [↑] Chowdhary, Girish; Muehlegg, Maximilian; Johnson, Eric (2014). "Exponential parameter and tracking error convergence guarantees for adaptive controllers without persistency of excitation". *International Journal of Control*. **87** (8): 1583–1603. doi:10.2514/1.46866.
- [↑] Lavretsky, Eugene (2015). "Robust and Adaptive Control Methods for Aerial Vehicles". *Handbook of Unmanned Aerial Vehicles*. pp. 675–710. doi:10.1007/978-90-481-9707-1_50. ISBN 978-90-481-9706-4.
- [↑] Kannan, Suresh K.; Chowdhary, Girish Vinayak; Johnson, Eric N. (2015). "Adaptive Control of Unmanned Aerial Vehicles: Theory and Flight Tests". *Handbook of Unmanned Aerial Vehicles*. pp. 613–673. doi:10.1007/978-90-481-9707-1_61. ISBN 978-90-481-9706-4.
- [↑] Chowdhary, Girish; Johnson, Eric N; Chandramohan, Rajeev; Kimbrell, Scott M; Calise, Anthony (2013). "Guidance and control of airplanes under actuator failures and severe structural damage". *Journal of Guidance Control and Dynamics*. **36** (4): 1093–1104. doi:10.2514/1.58028.

Further reading [\[edit \]](#)

- B. Egardt, *Stability of Adaptive Controllers*. New York: Springer-Verlag, 1979.
- I. D. Landau, *Adaptive Control: The Model Reference Approach*. New York: Marcel Dekker, 1979.
- P. A. Ioannou and J. Sun, *Robust Adaptive Control*. Upper Saddle River, NJ: Prentice-Hall, 1996.
- K. S. Narendra and A. M. Annaswamy, *Stable Adaptive Systems*. Englewood Cliffs, NJ: Prentice Hall, 1989; Dover Publications, 2004.
- S. Sastry and M. Bodson, *Adaptive Control: Stability, Convergence and Robustness*. Prentice Hall, 1989.
- K. J. Astrom and B. Wittenmark, *Adaptive Control*. Reading, MA: Addison-Wesley, 1995.
- I. D. Landau, R. Lozano, and M. M'Saad, *Adaptive Control*. New York, NY: Springer-Verlag, 1998.
- G. Tao, *Adaptive Control Design and Analysis*. Hoboken, NJ: Wiley-Interscience, 2003.
- P. A. Ioannou and B. Fidan, *Adaptive Control Tutorial*. SIAM, 2006.
- G. C. Goodwin and K. S. Sin, *Adaptive Filtering Prediction and Control*. Englewood Cliffs, NJ: Prentice-Hall, 1984.
- M. Krstic, I. Kanellakopoulos, and P. V. Kokotovic, *Nonlinear and Adaptive Control Design*. Wiley Interscience, 1995.

Getting better answers

- Tao, Gang (2014). "Multivariable adaptive control: A survey". *Automatica*. 50 (11): 2737–2764. [doi:10.1016/j.automatica.2014.10.015](https://doi.org/10.1016/j.automatica.2014.10.015).

The screenshot shows a web browser window displaying the ScienceDirect article page for "Multivariable adaptive control: A survey" by Gang Tao. The browser's address bar shows the URL: [sciencedirect.com/science/article/abs/pii/S0005109814003963?via%3Dihub](https://www.sciencedirect.com/science/article/abs/pii/S0005109814003963?via%3Dihub). The ScienceDirect logo is visible in the top left, and navigation options like "View PDF", "Access through your institution", and "Purchase PDF" are present. The article title "Multivariable adaptive control: A survey" is prominently displayed, along with the journal name "Automatica" and the author "Gang Tao". A sidebar on the left lists navigation options such as "Abstract", "Introduction", and "References (340)". The abstract text is partially visible at the bottom of the page.

Article preview

- Abstract
- Introduction
- Section snippets
- References (340)
- Cited by (162)
- Recommended articles (6)

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ELSEVIER

Automatica

Volume 50, Issue 11, November 2014, Pages 2737–2764

Survey paper

Multivariable adaptive control: A survey ☆

Gang Tao ¹ ✉

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<https://doi.org/10.1016/j.automatica.2014.10.015> | Get rights and content

Abstract

Adaptive control is a control methodology capable of dealing with uncertain systems to ensure desired control performance. This paper provides an overview of some fundamental theoretical aspects and technical issues of multivariable adaptive control, and a thorough presentation of various adaptive control schemes for multi-input–multi-output systems, literature reviews on adaptive control foundations and

FEEDBACK

7:29
13.12.2021

Getting better answers

- *If the search results are too basic for you, click "**Cited by**" to see newer papers that referenced them. These newer papers will often be more specific.*
- **Explore!** There's rarely a single answer to a research question. Click "**Related articles**" or "**Cited by**" to see closely related work, or *search for author's name* and see what else they have written.

The screenshot shows a web browser window with the URL [sciencedirect.com/science/article/abs/pii/S0005109814003963?via%3Dihub#preview-section-cited-by](https://www.sciencedirect.com/science/article/abs/pii/S0005109814003963?via%3Dihub#preview-section-cited-by). The page displays the 'Cited by' section for a specific article, listing three related papers:

- Adaptive gain-scheduling control for continuous-time systems with polytopic uncertainties: An LMI-based approach**
2021, Automatica
Show abstract
- Intelligent adaptive learning and control for discrete-time nonlinear uncertain systems in multiple environments**
2021, Neurocomputing
Show abstract
- Hybrid adaptive control of nonlinear systems with non-Lipschitz nonlinearities**
2021, Systems and Control Letters
Show abstract

Below these, two more titles are partially visible:

- Implicit function based adaptive control of non-canonical form discrete-time nonlinear systems**
2021, Automatica
Show abstract
- Learning-based adaptive fault tolerant control for hypersonic flight vehicles with abrupt actuator faults and finite time prescribed tracking performance**

The left sidebar contains navigation options: Article preview, Abstract, Introduction, Section snippets, References (340), Cited by (162), and Recommended articles (6). The top navigation bar includes 'View PDF', 'Access through your institution', and 'Purchase PDF'. A search bar is located in the top right corner.

LEARNING OUTCOMES

You are able to find at least 5 up-to-date references from reliable sources for your literature review

REFERENCES

1) Literature review in research methodology

Source <https://www.slideshare.net/raisonsamraju2800/literature-review-in-research-methodology>

2) Поиск научных статей в сети

Source <http://www.psu.ru/files/docs/fakultety/sil/info-tutorial.pdf#>:

3) https://scholar.google.com/citations?hl=ru&user=2g_WqTQAAAAJ