



Satuan Acara Pengajaran

MAT20212 - Statistika Matematika II

Pengajar

Dr. Dra. Dian Lestari D.E.A.

Minggu 1

Materi - Pengenalan materi
- Statistik terurut
- Pertidaksamaan Chebyshev

Media papan tulis, OHP

Referensi [1] Hogg, R.V., W.M. Joseph & A.T. Craig (2005). Introduction to Mathematical Statistics, 6th ed. Pearson Prentice Hall, New Jersey.
[2] Ross, S. (2005). Mathematical Statistics with Applications, 6th ed. Prentice-Hall, Inc. New Jersey.
[3] Hasset, M.J. & D.G. Stewart (1999). Probability for Risk Management. ACTEX Publications, Inc. Connecticut
[4] Freund, J.E. (1992). Mathematical Statistics, 5th ed. Prentice-Hall, Inc. New Jersey.
[5] Larsen, R.J. & L.M. Morris (2001). An Introduction to Mathematical Statistics and Its Applications, 3rd ed. Prentice-Hall, Inc. New Jersey.

Aktivitas Tutorial, diskusi

Minggu 2

Materi - Konvergen dalam distribusi
- Konvergen dalam probabilitas

Media Papan tulis, OHP

- Referensi**
- [1] Hogg, R.V., W.M. Joseph & A.T. Craig (2005). Introduction to Mathematical Statistics, 6th ed. Pearson Prentice Hall, New Jersey.
 - [2] Ross, S. (2005). Mathematical Statistics with Applications, 6th ed. Prentice-Hall, Inc. New Jersey.
 - [3] Hasset, M.J. & D.G. Stewart (1999). Probability for Risk Management. ACTEX Publications, Inc. Connecticut
 - [4] Freund, J.E. (1992). Mathematical Statistics, 5th ed. Prentice-Hall, Inc. New Jersey.
 - [5] Larsen, R.J. & L.M. Morris (2001). An Introduction to Mathematical Statistics and Its Applications, 3rd ed. Prentice-Hall, Inc. New Jersey.
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Aktivitas tutorial, diskusi

Minggu 3

Materi

- Limit MGF
- Dalil limit pusat

Media papan tulis, OHP

- Referensi**
- [1] Hogg, R.V., W.M. Joseph & A.T. Craig (2005). Introduction to Mathematical Statistics, 6th ed. Pearson Prentice Hall, New Jersey.
 - [2] Ross, S. (2005). Mathematical Statistics with Applications, 6th ed. Prentice-Hall, Inc. New Jersey.
 - [3] Hasset, M.J. & D.G. Stewart (1999). Probability for Risk Management. ACTEX Publications, Inc. Connecticut
 - [4] Freund, J.E. (1992). Mathematical Statistics, 5th ed. Prentice-Hall, Inc. New Jersey.
 - [5] Larsen, R.J. & L.M. Morris (2001). An Introduction to Mathematical Statistics and Its Applications, 3rd ed. Prentice-Hall, Inc. New Jersey.
-

Aktivitas tutorial, diskusi

Minggu 4

Materi

- Beberapa teorema dalam limit distribusi
- Metode maksimum likelihood
- penaksir unbiased

Media papan tulis, OHP

Referensi

- [1] Hogg, R.V., W.M. Joseph & A.T. Craig (2005). Introduction to Mathematical Statistics, 6th ed. Pearson Prentice Hall, New Jersey.
- [2] Ross, S. (2005). Mathematical Statistics with Applications, 6th ed. Prentice-Hall, Inc. New Jersey.
- [3] Hasset, M.J. & D.G. Stewart (1999). Probability for Risk Management. ACTEX Publications, Inc. Connecticut
- [4] Freund, J.E. (1992). Mathematical Statistics, 5th ed. Prentice-Hall, Inc. New Jersey.
- [5] Larsen, R.J. & L.M. Morris (2001). An Introduction to Mathematical Statistics and Its Applications, 3rd ed. Prentice-Hall, Inc. New Jersey.

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Minggu 5

Materi

- Metode moment
- statistik cukup

Media papan tulis, OHP

Referensi

- [1] Hogg, R.V., W.M. Joseph & A.T. Craig (2005). Introduction to Mathematical Statistics, 6th ed. Pearson Prentice Hall, New Jersey.
- [2] Ross, S. (2005). Mathematical Statistics with Applications, 6th ed. Prentice-Hall, Inc. New Jersey.
- [3] Hasset, M.J. & D.G. Stewart (1999). Probability for Risk Management. ACTEX Publications, Inc. Connecticut
- [4] Freund, J.E. (1992). Mathematical Statistics, 5th ed. Prentice-Hall, Inc. New Jersey.
- [5] Larsen, R.J. & L.M. Morris (2001). An Introduction to Mathematical Statistics and Its Applications, 3rd ed. Prentice-Hall, Inc. New Jersey.

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Minggu 6

Materi

- Latihan soal
- teorema Rao-Blackwel

Media papan tulis, OHP

- Referensi**
- [1] Hogg, R.V., W.M. Joseph & A.T. Craig (2005). Introduction to Mathematical Statistics, 6th ed. Pearson Prentice Hall, New Jersey.
 - [2] Ross, S. (2005). Mathematical Statistics with Applications, 6th ed. Prentice-Hall, Inc. New Jersey.
 - [3] Hasset, M.J. & D.G. Stewart (1999). Probability for Risk Management. ACTEX Publications, Inc. Connecticut
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 - [5] Larsen, R.J. & L.M. Morris (2001). An Introduction to Mathematical Statistics and Its Applications, 3rd ed. Prentice-Hall, Inc. New Jersey.
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Aktivitas tutorial, diskusi

Minggu 7

- Materi**
- Kelas eksponensial
 - regular case
 - fungsi dari parameter
 - kasus untuk beberapa parameter
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Media papan tulis, OHP

- Referensi**
- [1] Hogg, R.V., W.M. Joseph & A.T. Craig (2005). Introduction to Mathematical Statistics, 6th ed. Pearson Prentice Hall, New Jersey.
 - [2] Ross, S. (2005). Mathematical Statistics with Applications, 6th ed. Prentice-Hall, Inc. New Jersey.
 - [3] Hasset, M.J. & D.G. Stewart (1999). Probability for Risk Management. ACTEX Publications, Inc. Connecticut
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 - [5] Larsen, R.J. & L.M. Morris (2001). An Introduction to Mathematical Statistics and Its Applications, 3rd ed. Prentice-Hall, Inc. New Jersey.
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Minggu 8

- Materi**
- Informasi Fisher
 - batas bawah Rao Cramer
 - latihan soal
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Media papan tulis, OHP

- Referensi**
- [1] Hogg, R.V., W.M. Joseph & A.T. Craig (2005). Introduction to Mathematical Statistics, 6th ed. Pearson Prentice Hall, New Jersey.
 - [2] Ross, S. (2005). Mathematical Statistics with Applications, 6th ed. Prentice-Hall, Inc. New Jersey.
 - [3] Hasset, M.J. & D.G. Stewart (1999). Probability for Risk Management. ACTEX Publications, Inc. Connecticut
 - [4] Freund, J.E. (1992). Mathematical Statistics, 5th ed. Prentice-Hall, Inc. New Jersey.
 - [5] Larsen, R.J. & L.M. Morris (2001). An Introduction to Mathematical Statistics and Its Applications, 3rd ed. Prentice-Hall, Inc. New Jersey.
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Aktivitas tutorial, diskusi, latihan soal

Minggu 9

Materi

- Review
- quiz
- taksiran interval untuk parameter dari 1 populasi (mean, proporsi, variansi)

Media papan tulis, OHP

- Referensi**
- [1] Hogg, R.V., W.M. Joseph & A.T. Craig (2005). Introduction to Mathematical Statistics, 6th ed. Pearson Prentice Hall, New Jersey.
 - [2] Ross, S. (2005). Mathematical Statistics with Applications, 6th ed. Prentice-Hall, Inc. New Jersey.
 - [3] Hasset, M.J. & D.G. Stewart (1999). Probability for Risk Management. ACTEX Publications, Inc. Connecticut
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 - [5] Larsen, R.J. & L.M. Morris (2001). An Introduction to Mathematical Statistics and Its Applications, 3rd ed. Prentice-Hall, Inc. New Jersey.
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Aktivitas tutorial, diskusi, quiz

Minggu 10

Materi UTS

Media

- Referensi**
- [1] Hogg, R.V., W.M. Joseph & A.T. Craig (2005). Introduction to Mathematical Statistics, 6th ed. Pearson Prentice Hall, New Jersey.
 - [2] Ross, S. (2005). Mathematical Statistics with Applications, 6th ed. Prentice-Hall, Inc. New Jersey.
 - [3] Hasset, M.J. & D.G. Stewart (1999). Probability for Risk Management. ACTEX Publications, Inc. Connecticut
 - [4] Freund, J.E. (1992). Mathematical Statistics, 5th ed. Prentice-Hall, Inc. New Jersey.
 - [5] Larsen, R.J. & L.M. Morris (2001). An Introduction to Mathematical Statistics and Its Applications, 3rd ed. Prentice-Hall, Inc. New Jersey.
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Aktivitas ujian

Minggu 11

Materi

- taksiran interval untuk selisih 2 mean populasi, ratio variansi, selisih 2 proporsi
- pengujian hipotesis

Media papan tulis, OHP

- Referensi**
- [1] Hogg, R.V., W.M. Joseph & A.T. Craig (2005). Introduction to Mathematical Statistics, 6th ed. Pearson Prentice Hall, New Jersey.
 - [2] Ross, S. (2005). Mathematical Statistics with Applications, 6th ed. Prentice-Hall, Inc. New Jersey.
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 - [5] Larsen, R.J. & L.M. Morris (2001). An Introduction to Mathematical Statistics and Its Applications, 3rd ed. Prentice-Hall, Inc. New Jersey.
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Aktivitas tutorial, diskusi

Minggu 12

Materi

- Test terbaik
- teorema Neyman-Pearson

Media papan tulis, OHP

- Referensi**
- [1] Hogg, R.V., W.M. Joseph & A.T. Craig (2005). Introduction to Mathematical Statistics, 6th ed. Pearson Prentice Hall, New Jersey.
 - [2] Ross, S. (2005). Mathematical Statistics with Applications, 6th ed. Prentice-Hall, Inc. New Jersey.
 - [3] Hasset, M.J. & D.G. Stewart (1999). Probability for Risk Management. ACTEX Publications, Inc. Connecticut
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 - [5] Larsen, R.J. & L.M. Morris (2001). An Introduction to Mathematical Statistics and Its Applications, 3rd ed. Prentice-Hall, Inc. New Jersey.
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Minggu 13

Materi

- Lanjutan teorema Neyman-Pearson
- latihan soal

Media papan tulis, OHP

- Referensi**
- [1] Hogg, R.V., W.M. Joseph & A.T. Craig (2005). Introduction to Mathematical Statistics, 6th ed. Pearson Prentice Hall, New Jersey.
 - [2] Ross, S. (2005). Mathematical Statistics with Applications, 6th ed. Prentice-Hall, Inc. New Jersey.
 - [3] Hasset, M.J. & D.G. Stewart (1999). Probability for Risk Management. ACTEX Publications, Inc. Connecticut
 - [4] Freund, J.E. (1992). Mathematical Statistics, 5th ed. Prentice-Hall, Inc. New Jersey.
 - [5] Larsen, R.J. & L.M. Morris (2001). An Introduction to Mathematical Statistics and Its Applications, 3rd ed. Prentice-Hall, Inc. New Jersey.
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Minggu 14

Materi Uniformly most powerful test

Media papan tulis, OHP

- Referensi**
- [1] Hogg, R.V., W.M. Joseph & A.T. Craig (2005). Introduction to Mathematical Statistics, 6th ed. Pearson Prentice Hall, New Jersey.
 - [2] Ross, S. (2005). Mathematical Statistics with Applications, 6th ed. Prentice-Hall, Inc. New Jersey.
 - [3] Hasset, M.J. & D.G. Stewart (1999). Probability for Risk Management. ACTEX Publications, Inc. Connecticut
 - [4] Freund, J.E. (1992). Mathematical Statistics, 5th ed. Prentice-Hall, Inc. New Jersey.
 - [5] Larsen, R.J. & L.M. Morris (2001). An Introduction to Mathematical Statistics and Its Applications, 3rd ed. Prentice-Hall, Inc. New Jersey.
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