

1. ชื่อ (ไทย) นายสอาด นิวิตพงศ์  
(อังกฤษ) Mr. Sa-aat Niwitpong
2. ตำแหน่งปัจจุบัน รองศาสตราจารย์ ระดับ 9
3. หน่วยงานที่อยู่ ภาควิชาสถิติประยุกต์ คณะวิทยาศาสตร์ประยุกต์  
สถาบันเทคโนโลยีพระจอมเกล้าพระนครเหนือ  
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## 5. ประวัติการศึกษา

ปีที่จบการศึกษา	ระดับปริญญา	อักษรย่อปริญญาและชื่อเต็ม	สาขาวิชา	วิชาเอก	ชื่อสถาบัน/ประเทศ
2526	ตรี	กศ.บ. การศึกษาศาสตรบัณฑิต	คณิตศาสตร์	คณิตศาสตร์	มศว./ประเทศไทย
2532	โท	ศต.ม. สถิติศาสตรมหาบัณฑิต	สถิติ	สถิติ	จุฬาลงกรณ์มหาวิทยาลัย/ ประเทศไทย
2550	เอก	Ph.D. (Statistics)	Statistics		La Trobe University

## 6. สาขาวิชาที่มีความชำนาญ

สถิติอนุมาน , การพยากรณ์, อนุกรมเวลา

## 7. ประสบการณ์ในการวิจัย

### 7.1 หัวหน้าโครงการวิจัย

- 1) ตัวพยากรณ์และช่วงพยากรณ์หนึ่งคาบเวลาล่วงของขบวนการอัตตะสสัมพันธ์อันดับ  $p$  ภายหลังจากทดสอบหนึ่งหน่วย ทฤษฎีโครงการวิจัยรายบุคคล / คลัสเตอร์ (ภายใต้โครงการส่งเสริมการวิจัยในอุดมศึกษา ปี 2555) (ส่งรายงานวิจัยฉบับสมบูรณ์แล้ว)
- 2) สถิติอนุมานสำหรับสัมประสิทธิ์ความผันแปร ของการแจกแจงล็อกนอร์มอล, ทฤษฎีงบประมาณแผ่นดินประจำปี 2555 (ส่งรายงานวิจัยฉบับสมบูรณ์แล้ว)

### 7.2 งานวิจัยที่ทำเสร็จแล้ว

- 1) การสร้างโปรแกรมสำเร็จรูปสำหรับโปรแกรมเชิงเส้น งบประมาณปี 2540
- 2) การสร้างโปรแกรมสำเร็จรูปสำหรับระบบสินค้าคงคลัง งบประมาณปี 2541
- 3) การสร้างโปรแกรมสำเร็จรูปสำหรับระบบแถวคอย งบประมาณปี 2542

### 7.3 ผลงานวิจัยที่ตีพิมพ์และเผยแพร่

#### Honors, Awards, and Professional Service

- 1) Invited Speaker: Workshop on Modeling and Decision Support in Service and Knowledge Management will be held in conjunction with International Intensive School on Mathematical Decision Analysis, hosted by Japan Advanced Institute of Science and Technology (JAIST) during 7-11 March, 2011.

- 2) Visiting Professor: Department of Mathematics and Statistics, The University of Reading, England, 28th March- 16th April 2011.
- 3) Refereed Journals: Annals of Operations Research, International Journal of Reliability and Safety, Model Assisted Statistics and Applications: An International Journal, Thailand Statistician, Chiang Mai Journal of Science, Songklanakarin Journal of Science and Technology, etc.

## **Publications**

### **Journal**

1. Niwitpong, S. (2003) The recursively mean-adjusted Dickey-Fuller tests in the presence of a break under the null. *The Journal of Applied Science* 2, 55-58.
2. Niwitpong, S. (2004) Improved GMM estimator of an AR(1) process near unit root. *The Journal of Applied Science* 2, 21-28.
3. Niwitpong, S. (2004) Comparison of confidence intervals for the largest autoregressive root of the AR(1) model. *The Journal of Applied Science* 3, 56-62.
4. Niwitpong, S. (2004) Recursively mean-adjusted unit root tests based on the modified moment method. *Thailand Statistician* 2, 59-66.
5. Niwitpong, S. (2005) Prediction interval for an AR(1) process using combined predictors. *Thailand Statistician*, 3, 3-11.
6. Niwitpong, S. (2006) On coverage probability of the prediction interval for normal variable. *KMITL SCIENCE JOURNAL: An International Journal of Science and Applied Science* 6, 445-448.
7. Niwitpong, S. and Chananetr, C. (2006) Adjusted confidence intervals for the slope of a simple regression line. *KMITL SCIENCE JOURNAL: An International Journal of Science and Applied Science* 6, 400-408.
8. Niwitpong, S. and Niwitpong, S. (2006) On Coverage Probability of a Prediction Interval for an Unknown Mean AR(1) Process Using Combined Predictors. *Thailand Statistician* 4, 93-10.
9. Niwitpong, S. and Pinkoompee, P. (2006) *Prediction Intervals for a Single Future Value of Normal and Non-Normal Variables*. *Thailand Statistician* 4, 85-92.
10. Niwitpong, S. and Kirdwichai, P. (2008) Adjusted Bonnet confidence interval for the standard deviation for Non-Normal distributions. *Thailand Statistician* 6, 1-6.
11. Niwitpong, S. and Kirdwichai, P. (2008) Adjusted Confidence Interval for  $C_p$  for Non-Normal Distributions. *Thailand Statistician* 6, 7-14.
12. V. Kreinovich, Hung T. Nguyen and S. Niwitpong. (2008) Statistical Hypothesis Testing Under Interval Uncertainty: An Overview. *International Journal of Intelligent Technologies and Applied Statistics* 1, 1-33.

13. S. Niwitpong and S. Niwitpong. (2008) Prediction interval for the difference of two normal sample means with a known ratio of variances. *International Journal of Intelligent Technologies and Applied Statistics* 1(2), 75-86.
14. S. Niwitpong, Hung T. Nguyen, I. Neumann, and V. Kreinovich. (2008) Hypothesis testing with interval data: Case of regulatory constraints. *International Journal of Intelligent Technologies and Applied Statistics*,1(2), 19-41.
15. Niwitpong, S.(2009) Effect of Preliminary Unit Root Tests on Predictors for an Unknown Mean AR(1) Process. *Thailand Statistician* 7(1), 71-79.
16. Panichkitkosolkul, W. and Niwitpong, S. (2009) Prediction Intervals for an Unknown Mean Gaussian Autoregressive Process Using the Residual Model . *Thailand Statistician* 7(1), 29-41.
17. Paksaranuwat, P. and Niwitpong, S. (2009) Confidence intervals for the difference between two means with missing data following a pretest. *ScienceAsia* 35(3) , 310-313.
18. Sappakitkamjorn, J. and Niwitpong, S. (2009) Confidence Intervals for the Differences between the Means Using Jackknife Method after ANOVA for Data with Outliers.*Thailand Statistician* 7(2), 201-209.
19. Niwitpong, S. and Panichkitkosolkul, W. (2009) Prediction Intervals for an Unknown Mean Gaussian AR(1) Process Following Unit Root Tests. *Journal of Management Science & Statistical Decision*, 6(4), 43-51.
20. Niwitpong, S., Paksaranuwat, P, and Niwitpong, S. (2010) On Preliminary-prediction intervals for the difference between two means with missing data. *Chiang Mai Journal of Science*, 37(1), 21-28.
21. Paksaranuwat, P. and Niwitpong, S. (2010) Confidence intervals for the variance and the ratio of two variances of nonnormal distributions with missing data. *Thailand Statistician*, 8(1), 81-92.
22. Gupta, A. K., Kabe, D. G. and Niwitpong, S. (2010) A Generalization of Durbin-Watson Statistic. *European Journal of Pure and Applied Mathematics*, 3(3), 435-442.
23. Panichkitkosolkul, W. and Niwitpong, S. (2010) Statistical Estimation of Asset Pricing in Case of Heavy-Tailed Distributions. *International Journal of Intelligent Technologies and Applied Statistics*, 6(4), 335-352.
24. Panichkitkosolkul, W., Nontanum, S., Niwitpong, S. and Suracherdkiat, W. (2010) From Abstract Natural Numbers to Physical Natural Numbers: A Probabilistic Approach.*Journal of Uncertain Systems*, 4(4), 296-300.
25. Panichkitkosolkul, W. and Niwitpong, S. (2010) Multistep-Ahead Predictors for a Gaussian AR(1) Process with Additive Outliers Following the Unit Root Tests. *International Journal of Innovative Management, Information & Production*, 1(1), 49-55.

26. Chiangpradit, M. and Niwitpong, S. (2011) Confidence Interval Estimation for Right-Tailed Deviation Risk Measures Under Heavy-Tailed Losses. *Chiang Mai Journal of Science*, 38(1), 13-22.
27. Niwitpong, s. and Panchatree, N. (2011) Confidence Intervals for the Response Mean of a Simple Regression Model Following Pretests, *Thailand Statistician*, 9(1), 21-35.
28. Panichkitkosolkul, W. and Niwitpong, S. (2012) Prediction Intervals for the Gaussian Autoregressive Processes Following the Unit Root Tests, *Model Assisted Statistics and Applications: An International Journal*, Vol 7, Number 1, 1-15.
29. Petcharat, K, Paichit, P and Niwitpong, S. (2011) Power Law Regularization in Probabilistic Inverse Problems: a Theoretical Justification. *Journal of Uncertain Systems* Vol.5, No.2, 137-140.
30. Chiangpradit, M. and Niwitpong, S. (2011) Predictor of Simple Seasonal AR(1) Model after Preliminary Unit Root Tests. *Advances and Applications in Statistical Sciences*, Vol 6(3), 175-185.
31. Chiangpradit, M. and Niwitpong, S. (2012) Effective of Preliminary Unit Root Tests on Predictor of AR(p) Model with a Linear Trend. Submitted
32. Panichkitkosolkul, W. and Niwitpong, S. (2012) Effect of Preliminary Unit Root Tests on Prediction Intervals for Gaussian Autoregressive Processes with Additive Outliers, *Chiang Mai Journal of Science*, Vol 39, Number 1, 8-29.
33. Niwitpong, S., Koonprasert, S. and Niwitpong, S. (2012) Confidence interval for the difference between normal population means with known coefficients of variation. *Applied Mathematical Sciences*, Vol 6, no. 1, 47-54.
34. Niwitpong, S., Koonprasert, S. and Niwitpong, S. (2011) Confidence intervals for the ratio of normal means with a known coefficient of variation. *Advances and Applications in Statistics*, Vol 25, Number 1, 47-61.
35. Chiangpradit, M. and Niwitpong, S. (2013) Prediction Interval of Simple Seasonal AR(1) Model after Preliminary Unit Root Tests. Submitted
36. Chiangpradit, M. and Niwitpong, S. (2012) Prediction Interval for AR(1) Process with a Linear Trend after Preliminary Unit Root Tests. Submitted
37. Niwitpong, S. (2012) Predictor for an Additive Outliers of AR(1) Process with a Linear Trend after Preliminary Unit Root Tests. Submitted
38. Niwitpong, S. (2012) Prediction Interval for an Additive Outliers of AR(1) Process with a Linear Trend after Preliminary Unit Root Tests. Submitted
39. Niwitpong, S. (2012) A note on coverage probability of confidence intervals for the difference between two normal means with one unknown coefficient of variation.

40. Niwitpong, S. (2013) Confidence intervals for the mean of lognormal distribution with restricted parameter space, 7, 161-166.
41. Phonyiem, W., Niwitpong, S. (2012) Generalized confidence interval for the difference between normal population variances. Far East Journal of Mathematical Sciences, 69(1), 99-110.
42. Buntao, N. and Niwitpong, S. (2012) Confidence intervals for the difference of coefficients of variation for Lognormal distributions and Delta-Lognormal distributions. Applied Mathematical Sciences, Vol. 6, 2012, no. 134, 6691 – 6704.
43. Buntao, N. and Niwitpong, S. (2013) Confidence Intervals for the Ratio of Coefficients of Variation of Delta-Lognormal Distribution. Applied Mathematical Sciences, Vol. 7, no. 77, 3811 – 3818.
44. Niwitpong, S., Böhning, D., van der Heijden, P. G. M. and Holling, H. (2013) Capture recapture estimation based upon the geometric distribution allowing for heterogeneity. *Metrika* ([doi:10.1007/s00184-012-0401-0](https://doi.org/10.1007/s00184-012-0401-0)), 76, 495-519.
45. Somkhuean, R., Niwitpong, S. and Niwitpong, Sa. Upper bounds of generalized p-values for testing the coefficients of variation of lognormal distributions, to appear in Chiang Mai Journal of Sciences.
46. Somkhuean, R., Niwitpong, S. and Niwitpong, Sa. (2014) On upper bound of the generalized p - value for the mean of lognormal distribution when the coefficient of variation is known, *Advances and Applications in Statistics*, 41(2), 97-107.
47. Wongkhao, A., Niwitpong, S. and Niwitpong, Sa. (2014) Confidence intervals for the inverse of mean in a normal distribution with a known coefficient of variation, *Advances and Applications in Statistics*, 41(1), 1-14.
48. Niwitpong, S. (2015) Confidence interval for standard deviation of normal distribution with known coefficients of variation, *International Journal of Mathematics Trends and Technology*, 17(2), 11-118.
49. Niwitpong, S. (2015) Confidence intervals for the normal mean with known coefficient of variation, *Far East Journal of Mathematical Sciences*, 97(6), 711-727.