

**Manuscripts soumis pour publication et publications avec comité de lecture (juin 2011)**

1. Ait Aoudia, Djilali, Marchand, Éric, Perron, François (2011). **Linear forms, quadratic forms and the normal distribution.** Rapport de recherche #103, Département de mathématiques, Université de Sherbrooke. Soumis pour publication.
2. Kortbi, Othmane & Marchand, Éric (2011). **Truncated linear estimation of a bounded multivariate normal mean.** Rapport de recherche #101, Département de mathématiques, Université de Sherbrooke. Soumis pour publication.
3. Marchand, Éric & Payandeh Najafabadi, Amir T. (2011). **Bayesian improvements of a MRE estimator of a bounded location parameter.** Rapport de recherche #98, Département de mathématiques, Université de Sherbrooke. Soumis pour publication.
4. Fourdrinier, Dominique, Marchand, Éric, Righi, A., & Strawderman, W.E. (2011). **On improved predictive density estimation with parametric constraints,** *Electronic Journal of Statistics*, **5**, 172-191.
5. Marchand, Éric & Strawderman, William (2010). **A unified minimax result for restricted parameter spaces,** à paraître dans *Bernoulli*.
6. Marchand, Éric & Payandeh Najafabadi, Amir T. (2010). **Improving on minimum risk equivariant and linear minimax estimators of bounded location parameters,** *REVSTAT-Statistical Journal*, **8**, 125-138.
7. Marchand, Éric ; Jafari Jozani, Mohammad & Tripathi, Yogesh M. (2010). **On the inadmissibility of various estimators of normal quantiles and on applications to two-sample problems with additional information,** à paraître dans *Contemporary Developments in Bayesian analysis and Statistical Decision Theory : A Festschrift for William E. Strawderman*, Institute of Mathematical Statistics Volume Series.
8. Ait Aoudia, Djilali & Marchand, Éric (2010). **On the number of runs for Bernoulli arrays,** *Journal of Applied Probability*, **47**, 367-377.
9. Fourdrinier, Dominique & Marchand, Éric (2010). **On Bayes estimators with uniform priors on spheres and their comparative performance with maximum likelihood estimators for estimating bounded multivariate normal means,** *Journal of Multivariate Analysis*, **101**, 1390-1399
10. Jafari Jozani, Mohammad ; Marchand, Éric & Parsian, Ahmad (2010). **Bayesian and Robust Bayesian Analysis Under a General Class of Balanced Loss Functions,** à paraître dans *Statistical Papers*.
11. Kucеровsky, Dan ; Marchand, Éric ; Payandeh Najafabadi, Amir & Strawderman, William (2009). **On the bayesianity of maximum likelihood estimators of restricted location parameters under absolute value error loss,** *Statistics & Decisions*, **27**, 145-168.
12. Ahmadi, Jafar ; Jafari Jozani, Mohammad ; Marchand, Éric & Parsian, Ahmad (2009). **Prediction of  $k$ -records from a general class of distributions under balanced type loss functions,** *Metrika*, **70**, 19-33.
13. Marchand,Éric & Perron, F. (2009). **Estimating a bounded parameter for symmetric distributions,** *Annals of the Institute of Statistical Mathematics*, **61**, 215-234.
14. Ahmadi, Jafar ; Jafari Jozani, Mohammad ; Marchand, Éric & Parsian, Ahmad (2009). **Bayes Estimation Based on  $K$ -record Data From a General Class of Distributions Under Balanced Type Loss Functions,** *Journal of Statistical Planning and Inference*, **139**, 1180-1189.

15. Marchand,Éric ; Strawderman, William ; Bosa, Keven & Lmoudden, Aziz (2008). On the Frequentist Coverage of Bayesian Credible Intervals for Lower Bounded Means. *Electronic Journal of Statistics*, **2**, 1028-1042.
16. Marchand, Éric ; Ouassou, Idir ; Payandeh, Amir ; Perron, François (2007). *On the estimation of a restricted parameter for symmetric distributions* ; *Journal of the Japanese Statistical Society*, **38**, 293-309.
17. Jafari Jozani, Mohammad & Marchand, Éric (2007). **Minimax estimation of constrained parametric fucntions for discrete families of distributions** ; *Metrika*, **66**, 151-160.
18. Pham-Gia, Thu ; Turkkan, Noyan et Marchand, Éric (2006). *Density of the ratio of two normal random variables*, *Communications is Statistics : Theory and Methods*, **35**, 1569-1591.
19. Marchand, Éric & Strawderman, William E. (2006). **On the behaviour of Bayesian credible intervals for some restricted parameter space problems**, *Recent Developments in Nonparametric Inference and Probability : A Festschrift for Michael Woodroofe*, Institute of Mathematical Statistics Lecture Notes-Monograph Series, vol. 50, pp. 112-126.
20. Jafari Jozani, Mohammad ; Marchand, Éric et Parsian, Ahmad (2006). *On estimation with weighted balanced-type loss function*, *Statistics & Probability Letters*, **76**, 773-780.
21. Marchand, Éric et Parsian, Ahmad (2006). *Minimax estimation of a bounded parameter of a discrete distribution*, *Statistics & Probability Letters*, **76**, 547-554.
22. Marchand, Éric ; Perron, François et Rokhaya Gueye (2005). *Minimax Estimation of a Binomial Proportion when  $|p - 1/2|$  is Bounded*, *Sankhya*, **67**, 526-537.
23. Kucеровsky, Daniel, Marchand, Éric, Small, Robert D. (2005). **On the Equality in Distribution of the Random Variables  $X$  and  $g(X)$** , *International Journal of Pure and Applied Mathematics*, **23**, 93-114.
24. Marchand, Éric et William E. Strawderman (2005). **On Improving on the Minimum Risk Equivariant Estimator of a Scale Parameter under a Lower-Bound Constraint**, *Journal of Statistical Planning and Inference*, **134**, 90-101.
25. Marchand, Éric et William E. Strawderman (2004). *On Improving on the Minimum Risk Equivariant Estimator of a Location Parameter which is Constrained to an Interval or a Half-Interval*, *Annals of the Institute of Statistical Mathematics*, **57**, 129-143.
26. Marchand, Éric et William E. Strawderman (2004). *Estimation in Restricted Parameter Spaces : A Review*, *Festschrift for Herman Rubin*, Institute of Mathematical Statistics Lecture Notes-Monograph Series, pp. 21-44.
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28. Joffe, Anatole ; Marchand, Éric ; Perron, François ; et Popadiuk, Paul (2004). **On a particular sum of dependent Bernoulli and its relationship to a matching type problem**, *Journal of Theoretical Probability*, **17**, 285-292.
29. Fourdrinier, Dominique ; Marchand, Éric ; et Strawderman, William E. (2004). *On the inevitability of a paradox in shrinkage estimation for scale mixtures of normals*, *Journal of Statistical Planning and Inference*, **121**, 37-51.
30. Marchand, Éric et Perron, François (2002). *On the Minimax Estimator of a Bounded Normal Mean*, *Statistics & Probability Letters*, **58**, 327-333.
31. Marchand, Éric et Whitehead, James (2002). *Statistical Evaluation of Compositional Differences between Upper Eocene Impact Ejecta Layers*, *Mathematical Geology*, **34**, 5, 553-569.
32. Marchand, Éric (2002). *On the Comparison Between Standard Draw and Random Knockout Tournaments*, *Journal of the Royal Statistical Society D (The Statistician)*, **51**, 2, 169-178.

33. Marchand, Éric et Perron, François (2001). *Improving on the MLE of a Bounded Normal Mean*, *Annals of Statistics*, **29**, 1066-1081
34. Marchand, Éric (2001), *Point Estimation of the Coefficient of Determination*, *Statistics and Decisions*, **19**, 137-154.
35. Marchand, Éric et MacGibbon, Brenda (2000). *Minimax Estimation of a Constrained Binomial Proportion*, *Statistics and Decisions*, **18**, 129-167.
36. Marchand, Éric et Lamontagne, Érick (1999). *On a Surprising Covariance Identity*. *International Journal of Mathematical Education in Science and Technology*, **30**, 142-146.
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39. Scott, Richard ; Fugler, Donald ; Marchand, Éric ; and Morrell, Judy (1996). *Residential Sources of Lead in Saint John, New Brunswick*, Rapport de recherche : Société Canadienne d'Hypothèque et du Logement.
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43. Marchand, Éric (1993). *Estimation of a Multivariate Mean with Constraints on the Norm*, *Canadian Journal of Statistics*, **21**, 359-366.
44. Marchand, Éric et Giri, Narayan C. (1993). *James-Stein Estimation with Constraints on the Norm*, *Communications in Statistics : Theory and Methods*, **22**, 2903-2924.
45. Giri, Narayan C. et Marchand, Éric (1992). *Optimal Equivariant Estimators in Curved Models*, *Statistics and Probability, Selection Statistica Canadiana*, **8**, Inst. Gaussianum, 37-57.