박 찬 석 교수

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연구분야

Robustification
Noise Removal
Competing Risks Model

수상

Outstanding Professor by Clemson University Student Government
Marquis Who's Who in the World

대표연구

- Robustness
  - Minimum distance method
  - Graphical interpretation of robustness
  - Weighted likelihood method
  - Density power divergence
- Competing Risks
  - Identificaiton of masked data
  - Nonparametric tests for cause specific hazard rates
  - Inference of incomplete data with competing risks
- Reliability
  - Cumulative damage model
  - Bayesian analysis of Birnbaum-Saunders distribution
  - Stochastic Degradation Models

주요 연구실적

- Statistical Inference: The Minimum Distance Approach. Chapman & Hall/CRC, 2011(doi:10.1201/b10956)
- Robust Design Under Normal Model Departure. Computers and Industrial Engineering, Vol. 113, pp.206-220, 2017(doi:10.1016/j.cie.2017.09.010)
- Statistical Analysis of Parameter Estimation of a Probabilistic Crack Initiation Model for Alloy 182 Weld Considering Right-Censored Data and the Covariate Effect Nuclear Engineering and Technology, Vol.50, pp.107-115, 2018(doi:10.1016/j.net.2017.09.005)
- Ensemble modeling technique for micro-drilling process based on two-stage bootstrap. Engineering Optimization, To Appear in 2018(doi:10.1080/0305215X.2018.1472251)
- Reliability analysis of load-sharing systems with memory. Lifetime Data Analysis, To Appear in 2018(doi:10.1007/s10985-018-9425-8)

주요 연구과제

- Development of Stochastic Degradation and Reliability Models, 한국연구재단(National Research Foundation of Korea), 2억9천6백만원

학회 활동

- On the Editorial Board of Journal of Probability and Statistics(2008~2016)
- Associate Editor of International Journal of Quality Engineering and Technology(2009~2014)

산학 협력 활동

- 자투리 목재를 활용한 소형 서류 거치대 (대학창의적자산 실용화지원사업 개발지원사업)