

Publications by Iason Papaioannou

November 2023

HIGHLIGHTS

66 refereed journal papers; 2 book chapters; 62 refereed conference papers
> 3000 citations; h-index 26; i10-index 51 ([Google scholar profile](#))

JOURNAL MANUSCRIPTS IN REVIEW

Carrera B., **Papaioannou I.** Covariance-based MCMC for high-dimensional Bayesian updating with sequential Monte Carlo. *Probabilistic Engineering Mechanics*, in review.

Ellingwood B., Maes M., Beck A. T., Caprani C., Der Kiureghian A., Duenas-Osorio L., Galvao N., Gilbert R. B., Li J., Matos J., Mori Y., **Papaioannou I.**, Parades R., Straub D., Sudret B. Development of methods of structural reliability. *Structural Safety*, in review.

Chan J., **Papaioannou I.**, Straub D. Bayesian improved cross entropy method with categorical mixture models. *Reliability Engineering & System Safety*, in review.

Althaus K., **Papaioannou I.**, Ullmann E. Consensus-based rare event estimation. *SIAM Journal on Scientific Computing*, in review.

REFEREED JOURNAL PUBLICATIONS

[J66] Zwirgmaier K., Chan J., **Papaioannou I.**, Song J., Straub D. Hybrid Bayesian networks for reliability assessment of infrastructure systems. *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering*, in print.

[J65] Ehre M., **Papaioannou I.**, Straub D. (2024). Variance-based reliability sensitivity under dependent inputs using failure samples. *Structural Safety*, 106: 102396.

[J64] Kamariotis A., Sardi L., **Papaioannou I.**, Chatzi E., Straub D. (2023). On off-line and on-line Bayesian filtering for uncertainty quantification of structural deterioration. *Data-Centric Engineering*, 4: e17.

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- [J54] Chan J., **Papaioannou I.**, Straub D. (2022). An adaptive subset simulation algorithm for system reliability analysis with discontinuous limit states. *Reliability Engineering & System Safety*, 225: 108607.
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DISSERTATION

[D1] **Papaioannou I.** (2013). *Non-intrusive finite element reliability analysis – Structural reliability analysis with “black box” finite element programs*. SVH-Verlag, Saarbrücken.

BOOK CHAPTERS

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