

## When properties of component lifetimes are inherited by system?

Barry C. Arnold<sup>a</sup>, Tomasz Rychlik<sup>b</sup> and Magdalena Szymkowiak<sup>c</sup>

<sup>a</sup>*Department of Statistics, University of California, Riverside, USA*

<sup>b</sup>*Institute of Mathematics, Polish Academy of Sciences, Warsaw, Poland*

<sup>c</sup>*Institute of Automatic Control and Robotics, Poznan University of Technology, Poznań, Poland*

We discuss distributional properties of a system with components whose lifetimes are identically distributed, and their joint distribution admits the Samaniego signature representation. We present some conditions on the system signatures under which the monotone failure rate, density and reversed failure rate of the components lifetimes are inherited by the system lifetime distribution.

### References

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