

Accepted Manuscript

On the Joint Signature of Several Coherent Systems with Some Shared Components

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PII: S0377-2217(17)30625-2
DOI: [10.1016/j.ejor.2017.06.066](https://doi.org/10.1016/j.ejor.2017.06.066)
Reference: EOR 14548



To appear in: *European Journal of Operational Research*

Received date: 28 March 2016
Revised date: 5 May 2017
Accepted date: 30 June 2017

Please cite this article as: S. Zarezadeh, L. Mohammadi, N. Balakrishnan, On the Joint Signature of Several Coherent Systems with Some Shared Components, *European Journal of Operational Research* (2017), doi: [10.1016/j.ejor.2017.06.066](https://doi.org/10.1016/j.ejor.2017.06.066)

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Highlights

- The concept of joint signature is expanded to several coherent systems which share some components.
- A pseudo-mixture representation is given for the joint distribution of the systems lifetimes.
- Similar representation for the joint reliability function of the systems lifetimes is also derived.
- The separation of the effect of components lifetimes and the composition of systems is shown.
- Some ordering results are given for comparing two clusters of coherent systems.

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