



Stochastic Port-Hamiltonian Systems

Francesco Cordonì¹ · Luca Di Persio² · Riccardo Muradore²

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Abstract

In the present work we formally extend the theory of port-Hamiltonian systems to include random perturbations. In particular, suitably choosing the space of flow and effort variables we will show how several elements coming from possibly different physical domains can be interconnected in order to describe a dynamic system perturbed by general continuous semimartingale. Relevant enough, the noise does not enter into the system solely as an external random perturbation, since each port is itself intrinsically stochastic. Coherently to the classical deterministic setting, we will show how such an approach extends existing literature of stochastic Hamiltonian systems on pseudo-Poisson and pre-symplectic manifolds. Moreover, we will prove that a power-preserving interconnection of stochastic port-Hamiltonian systems is a stochastic port-Hamiltonian system as well.

Keywords Stochastic geometric mechanics · Port-Hamiltonian systems · Stochastic equations on manifold · Dirac manifold

Mathematics Subject Classification 34G20 · 34F05 · 37N35

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Francesco Cordonì
francesco.cordonì@unitn.it
Luca Di Persio
luca.dipersio@univr.it
Riccardo Muradore
riccardo.muradore@univr.it

¹ Department of Civil, Environmental and Mechanical engineering, via Mesiano 77, 38123 Trento, Italy

² Department of Computer Science, University of Verona, Strada le Grazie, 15, 37134 Verona, Italy

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