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GREYDIENT

Newsletter N°3

Network-wide event: Leibniz Uni. Hannover



In October the GREYDIENT project gathered in Hannover, Germany for its third Network-wide event. On the program: four days of trainings including interventions from M. Liebscher from SCALE CAE and H.Zimmermann from HDI insurance as well as a training in Julia programming. Those events are also the occasion for the PhD students to present their progress and discuss the common grounds of their research.

Dissemination: conference activities

GREYDIENT organized a dedicated mini-sumposium during the ISMA/USD conference in Leuven, Belgium. Five ESRs presented their progress and published an associated paper. The articles are available for download bellow, make to sure to check them!

ISMA/USD - Leuven, Belgium:

Damien Bonnet-Eymard:
 Physics informed neural network as surrogate model to quantify the uncertainty of the elastic response of a



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near-real-time online monitoring of dynamic processes.

• Giada Colella:

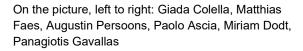
Transfer learning for metamodel construction to enable uncertainty quantifications in crash design based on scarce data availability.

Paolo Ascia:

A finite element model of component solution space for early stage design uncertainties.

Panagiotis Gavallas:

Response statistics of composite structures with stochastic material properties based on microstructure.





Dissemination: First journal publications

Two of the GREYDIENT PhD students had their first journal paper published

<u>First-passage probability estimation of high-dimensional nonlinear stochastic dynamic systems by a fractional moments-based mixture distribution approach</u>

C. Ding, C. Dang, M. Valdebenito, M. Faes, M. Broggi, M. Beer

Journal: Mechanical Systems and Signal Processing, Volume 185, 15 February 2023, 109775

The effect of random field parameter uncertainty on the response variability of composite structures

George Stefanou, Dimitrios Savvas, Panagiotis Gavallas, Iason Papaioannou

Journal: Composites Part C: Open Access, Volume 9, October 2022, 100324, 109775

Welcoming a new ESR!

Luo Yi has been recruited for the ESR position number 3 with Leibniz university Hannover. We are very glad to welcome her to the network!

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