Upgrade meeting

07/12/2018

• Rosenblatt web sources:

- https://github.com/mscavnicky/copula-matlab
- $\ \, \text{http://openturns.github.io/openturns/master/theory/numerical_methods/rosenblatt_transformation.html}$

• Bibliography to study:

- from Tiziano's paper: 'Adaptive Polynomial Chaos for Gas Turbine Compression System Performance Analysys'

Equation 9 defines a random process as follow:

$$Y(\theta) = c_0 I_0 + \sum_{i_1=1}^{\infty} (c_{i_1} I_1(\xi_{i_1}(\theta))) + \sum_{i_1=1}^{\infty} \sum_{i_2=1}^{i_1} (c_{i_2} I_2(\xi_{i_1}(\theta), \xi_{i_2}(\theta))) + \dots$$
 (1)