



Contribution ID: 24

Type: **Contributed Talk**

Automatic differentiation with Stochastic Rounding in Julia

Tuesday, December 9, 2025 11:00 AM (20 minutes)

Stochastic rounding is a pivotal technique to perform scientific computation in reduced precision and is becoming available on modern hardware. This talk will briefly introduce stochastic rounding and demonstrate automatic differentiation on several case studies using a software implementation of stochastic rounding in Julia.

Author: Dr CHURAVY, Valentin (University of Augsburg)

Co-author: Dr GIORDANO, Mose

Presenter: Dr CHURAVY, Valentin (University of Augsburg)

Session Classification: Contributed Talks