Simulator-based inference

Jukka Corander, UiO, HIIT, WSI, FCAI
Simulators are taking over engineering R & D
Inference for interpretable models

ELFI – Engine for Likelihood-Free Inference

http://www.elfi.ai

Lintusaari et al. (2018, JMLR)
Towards community-driven ELFI

- Massive opportunities to collaborate and drive development
- Bring in your machine learning expertise to make ELFI even greater
- World-class real benchmark simulators available for testing new ideas
GANs & Friends

Prof. Jaakko Lehtinen coordinates

The New York Times
New friends for GANs

• Realistic synthetic data in place of real, sensitive data for safe ML research?

• Image, video and audio synthesis for content generation in film & games?