

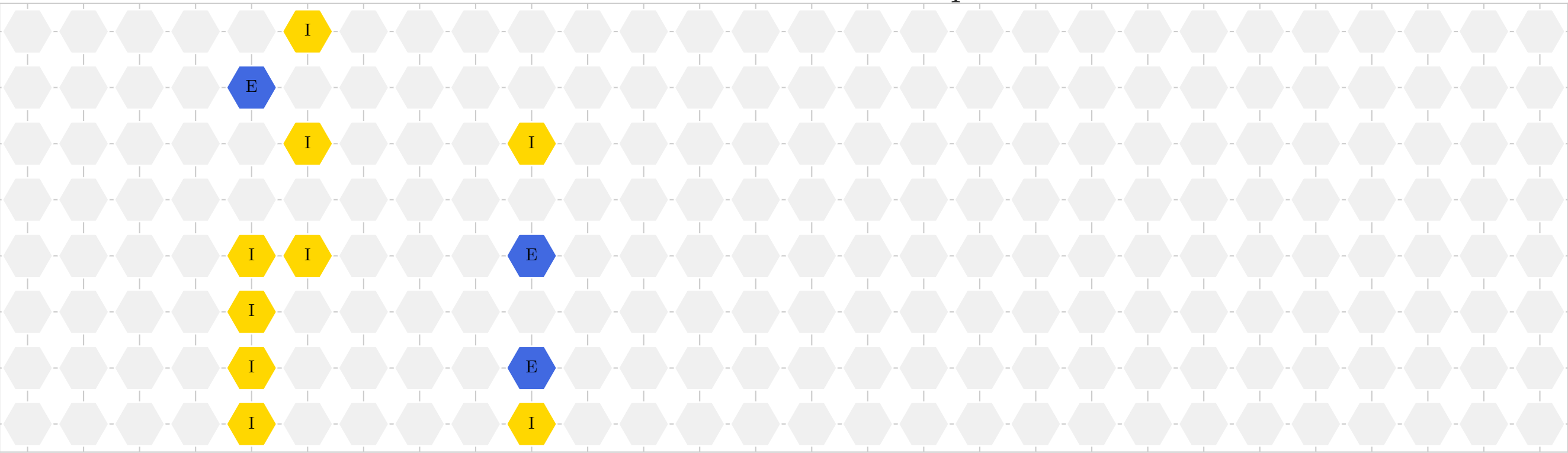
Is Model Collapse Explicitly Defined?

Explicit Definition



Which Definitions of Model Collapse Are Used?

Appearance of Hallucinated Data Over Time  
Disappearance of Real Tail Data over Time  
Entanglement of Real Data Mode(s) over Time  
Collapsing Variance  
Change in Scaling Law  
Asymptotically Diverging Risk  
Any Increase of Population Risk  
Catastrophic Increase of Population Risk



Taori & Hashimoto (2022 Sep)  
Hataya et al. (2022 Nov)  
Martinez et al. (2023 Nov)  
Martinez et al. (2023 Feb)  
Alemohammad et al. (2023 Jun)  
Bertrand et al. (2023 Jul)  
Guo et al. (2023 Sep)  
Bohacek & Farid (2023 Nov)  
Briesch, Sobania & Rothlauf (2023 Nov)  
Shumailov et al. (2023 Nov)  
Jain, Montanari & Sasoglu (2023 May)  
Dohmatob et al. (2024 Feb)  
Fu et al. (2024 Feb)  
Gerstgrasser et al. (2024 Feb)  
Marchi et al. (2024 Feb)  
Seddik et al. (2024 Feb)  
Chen et al. (2024 Apr)  
Xing et al. (2024 Apr)  
Feng et al. (2024 Apr)  
Shumailov et al. (2024 Apr)  
Ferbach et al. (2024 May)  
Dohmatob et al. (2024 Jun)  
Kazdan et al. (2024 Jul)  
Chen et al. (2024 Jul)  
Dey & Donoho (2024 Sep)  
Suresh et al. (2024 Oct)  
Zhu et al. (2024 Dec)