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	authors	Aditya Balu Sergio Botelho Biswajit Khara Vinay V Rao Chinmay Hegde Soumik Sarkar Santi Adavani Adarsh Krishnamurthy Baskar Ganapathysubramanian	authors	 Aditya Balu Sergio Botelho Biswajit Khara Vinay Rao C. Hegde S. Sarkar Santi S. Adavani A. Krishnamurthy B. Ganapathysubramanian 	DUPLICATES 218	
			title	Distributed Multigrid Neural Solvers on Megavoxel Domains		
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			journal			218
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	source	SupportedSources.OPENALEX	doi	10.1145/3458817.3476218		
	journal	arXiv (Cornell University)	urls	• https://www.semanticscholar.org/paper/7c5e6b769549a83a40d4b7174c2e86d1f3835da8		
	volume					
	doi	None	id	id-6600031357365560483		
	urls	https://openalex.org/W3157360434	abstract	We consider the distributed training of large scale neural networks that serve as PDE (partial differential equation) solvers producing full field outputs. We specifically consider neural solvers for the generalized 3D Poisson equation over megavoxel domains. A scalable framework is presented that integrates two distinct advances. First, we accelerate training a large model via a method analogous to the multigrid technique used in numerical linear algebra. Here, the network is trained using a hierarchy of		
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