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Exponential convergence rates for batch normalization: the power of length-direction decoupling in non convex optimization

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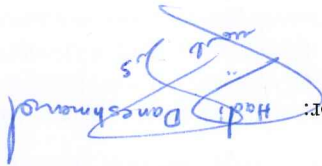
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