

cases	doc_1		doc_2		decision	id
			<div>authors</div> <div><ul style="list-style-type: none">Shin KamadaTakumi Ichimura</div>	DUPLICATES	148	
			<div>title</div> An Object Detection by using Adaptive Structural Learning of Deep Belief Network			
			<div>publication_date</div> 2019-09-30 05:49:02+00:00			
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			<div>urls</div> <div><ul style="list-style-type: none">http://arxiv.org/pdf/1909.13465v1http://arxiv.org/abs/1909.13465v1http://arxiv.org/pdf/1909.13465v1</div>			
			<div>id</div> id-5518709614437186411			
			<div>abstract</div> Deep learning forms a hierarchical network structure for representation of multiple input features. The adaptive structural learning method of Deep Belief Network (DBN) can realize a high classification capability while searching the optimal network structure during the training. The method can find the optimal number of hidden neurons for given input data in a Restricted Boltzmann Machine (RBM) by neuron generation-annihilation algorithm. Moreover, it can generate a new hidden layer in DBN by the layer generation algorithm to actualize a deep data representation. The proposed method showed higher classification accuracy for image benchmark data sets than several deep learning methods including well-known CNN methods. In this paper, a new object detection method for the DBN architecture is proposed for localization and category of objects. The method is a task for finding semantic objects in images as Bounding Box (B-Box). To investigate the effectiveness of the proposed method, the adaptive structural learning of DBN and the object detection were evaluated on the Chest X-ray image benchmark data set (CXR8), which is one of the most commonly accessible radio-logical examination for many lung diseases. The proposed method showed higher performance for both classification (more than 94.5% classification for test data) and localization (more than 90.4% detection for test data) than the other CNN methods.			
			<div>versions</div>			
	<div>authors</div> <div><ul style="list-style-type: none">Kamada, S.Ichimura, T.</div>					
	<div>title</div> An Object Detection by using Adaptive Structural Learning of Deep Belief Network					
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	<div>doi</div> 10.1109/ijcnn.2019.8852145					
	<div>urls</div> <div><ul style="list-style-type: none">http://xplorestaging.ieee.org/ielx7/8840768/8851681/08852145.pdf?arnumber=8852145http://dx.doi.org/10.1109/ijcnn.2019.8852145</div>					
	<div>id</div> id-5742767139521203869					
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