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Deep Self-Paced Learning for Person Re-Identification

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Highlights

- We propose a novel deep self-paced learning algorithm to supervise the learning of deep neural network, in which a soft polynomial regularizer term is proposed to gradually involve the faithful samples into training process in a self-paced manner.
- We optimize the gradient back-propagation of relative distance metric by introducing a symmetric regularizer term, which can convert the back-propagation from the asymmetric mode to a symmetric one.
- We build an effective part-based deep neural network, in which features of different body parts are first discriminately learned in the convolutional layers and then fused in the fully connected layers.

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