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computer vision and pattern recognition. It provides a systematic way of synthesizing and analyzing object detection and pattern recognition systems. Incorporating "learning" into recognition systems will enable these systems to automatically generate new features on the fly (evolve) and cleverly select a good subset of features according to the type of objects and images to which they are applied.

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Pattern recognition receptor - Wikipedia

E-Net is a new distributed evolutionary learning system that evolves neural-network-based pattern recognition systems (PRSs) with limited human interaction. This system orchestrates a multiplicity of evolutionary and classical learning techniques to synthesize feature detectors, select sets of cooperative features, and assemble classifiers.

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E-Net: Evolutionary neural network synthesis - ScienceDirect

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Title: Deep Learning with Darwin: Evolutionary Synthesis of Deep Neural Networks. Authors: Mohammad Javad Shafiee, Akshaya Mishra, Alexander Wong (Submitted on 14 Jun 2016 , last revised 6 Feb 2017 (this version, v3))

Title: Deep Learning with Darwin: Evolutionary Synthesis

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Evolutionary feature synthesis for facial expression recognition
Jiangang Yu *, Bir Bhanu Center for Research in Intelligent Systems, University of California, Riverside, CA 92521, USA
Available online 10 January 2006 Abstract Feature extraction is one of the key steps in object recognition.

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With each individual evolved by a population of GP, a composite operator is evolved. By applying composite operators to the primitive features filtered from images, composite feature vectors are obtained. These composite feature vectors are fed into a classifier for recognition.

Evolutionary feature synthesis for facial expression ...

Appeared in Proceedings of Computer Vision and Pattern Recognition Conference, Workshop on Learning in Computer Vision, June 2003. 1 Coevolutionary Computation for Synthesis of Recognition Systems Krzysztof Krawiec¹ and Bir Bhanu Center for Research in Intelligent Systems University of California, Riverside, CA 92521-0425, USA

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Coevolutionary Computation for Synthesis of Recognition

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The most effective well-known methods in the context of static machine learning offer no alternative to evolution and dynamic adaptation to integrate new data or to restructure problems already partially learned. In this area, the incremental learning represents an interesting alternative and constitutes an open research field, becoming one of the major concerns of the machine learning and ...

Incremental supervised learning: algorithms and ...

Bir Bhanu is the Marlan and Rosemary Bourns Endowed University of California Presidential Chair in Engineering, the Distinguished Professor of Electrical and Computer Engineering, and Cooperative Professor of Computer Science and Engineering, Mechanical Engineering and Bioengineering, at the Marlan and

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