Big Data Summarization for Computer Vision

Guest Editors:

Dr. Ibrahim Jubran
Department of Computer Science, University of Haifa, Haifa, Israel

Prof. Dr. Dan Feldman
Robotics & Big Data Lab, Computer Science Department, University of Haifa, Haifa 3498838, Israel

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Message from the Guest Editors

The increase in both quantity and quality of sensors, and specifically cameras, in the past decade has made huge streams of high-resolution visual data available. Such data can be utilized for localization, mapping, scene understanding, 3D modeling, and training neural networks, just to name a few. However, to leverage big data, one must overcome a series of challenging tasks, including efficient (and possibly parallel) computation, efficient storage, and tackle streaming and dynamic data.

While the common approach is to design faster and more efficient algorithms, an alternative and modern approach is to provably approximate the big data via a much smaller data. Such compression schemes are often called a coreset or a sketch.

The aim of this Special Issue, "Big Data Summarization for Computer Vision", is to attract original and innovative research results which successfully manage to reduce the computational and storage overload of computer vision tasks via designated compression and approximation schemes.

Special Issue

Editor-in-Chief

Prof. Dr. Willy Susilo
School of Computer Science and
Software Engineering, University
of Wollongong, Northfields
Avenue, Wollongong, NSW 2522,
Australia

Message from the Editor-in-Chief

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