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Over the last decades, energy minimization methods have become an established paradigm to resolve a variety of challenges in the fields of computer vision and pattern recognition. While traditional methods to computer vision were often based on a heuristic sequence of processing methods and merely allowed extremely limited theoretical knowledge of the respective strategies, most state-of-the-art strategies are nowadays based on the concept of processing solutions to a given problem by minimizing respective energies. Furthermore, we were delighted that three leading professionals from the fields of variational methods and partial differential equations. General, we received 75 high-quality double-blind submissions. These papers show that energy minimization strategies have become an adult. Software areas include picture segmentation and tracking, shape optimization and registration, inpainting and picture denoising, color and consistency modeling, statistics and learning. Field of study spanning a broad selection of areas from discrete graph theoretic methods and Markov random fields. Based on the reviewer suggestions, 36 papers were selected for publication, 18 as oral and 18 as poster presentations. Both oral and poster papers had been attributed the same amount of webpages in the meeting proceedings. This volume contains the papers provided at the 7th International Conference on Energy Minimization Strategies in Computer Eyesight and Design Recognition (EMMCVPR 2009), held at the University of Bonn, Germany, August 24-28, 2009. Fields of computer eyesight and energy minimization, namely, Richard Hartley (Cberra, Australia), Joachim Weickert (Saarbrücken, Germany) and Guillermo Sapiro (Minneapolis, USA) agreed to further enrich the conference with inspiring keynote lectures.



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