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# Computer Vision Systems

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Proceedings

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# Preface

Computer vision research has taken great strides over the past decade. To deploy research results in large-scale, real-world applications, progress on scientific frontiers must be complemented by corresponding research and development concerning issues such as systems integration, scalable architectures and representations, automated configuration, adaptation and recovery, closing perception-action-loops, real-time and embedded implementations, benchmarking, etc. The International Conference on Computer Vision Systems (ICVS) is a regular forum with this perspective on systems. It brings together researchers and developers from academia and industry, fostering research and technology transfer relevant to real-world, deployed computer vision systems.

This volume contains the papers presented at ICVS 2009 in Liège, Belgium, continuing the established series of conferences held so far in Europe and North America.

A total of 96 submissions were received. Each of them was reviewed by at least 3 program committee members in a double-blind procedure. Overall, 45 contributed papers were accepted, 21 for oral presentation and 24 as posters. The contributions cover a broad spectrum of aspects related to computer vision systems such as learning, recognition, HCI, robotic applications, real-time constraints, cognitive systems, and architectures, to name just a few.

In addition, ICVS 2009 featured two invited speakers who presented complementary issues of high importance to computer vision systems. James M. DiCarlo from the Massachusetts Institute of Technology is a leading researcher in computational models of brain mechanisms that underlie biological vision, the ultimate example of deployed vision systems and an important source of inspiration for artificial systems. Jay Yagnik is the Head of Computer Vision and Audio Understanding Research at Google Inc., overseeing research and development in computer vision aimed at extremely large-scale application.

We wish to thank the program committee for providing their reviews as well as feedback to the authors. We would also like to thank the local organizers for the local arrangements.

August 2009

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