Foreword

This volume contains the proceedings of the 2005 IEEE International Workshop on Computer Architecture for Machine Perception. CAMP05 is the seventh in the series of workshops which began with CAMP91 in Paris and followed by CAMP93 in New Orleans, CAMP95 in Como, CAMP97 in Boston, CAMP00 in Padova, CAMP03 in New Orleans. The CAMP workshops represent a continuation of the very successful IEEE CAPAMI (Computer Architectures for Pattern Analysis and Machine Intelligence) workshops held during the 1970's and 1980's. Besides the traditional topics of highly parallel architectures, distributed computing, real time systems, VLSI architectures and image analysis algorithms, this edition of the workshop emphasis non-conventional architectures biological inspired, evolutionary programming, mining applications in astronomy. The conference has had the benefit of sponsorship by multiple organizations, reflecting the interdisciplinary nature. These includes: Centro interdipartimentale Tecnologie della Conoscenza, Regione Sicilia, University of Palermo, Ministry of Education University and Research.

The present edition offers an excellent collection of papers, all given marks by our panel reviewers, who where notably through. The accepted papers rate was of 67% (51 of 78 submitted papers were accepted). Papers offer a wide range of valuable results and, taken together, provide a snapshot of the state of the art in perception architectures and algorithms that will be of interest to researchers from many different fields. Several papers present working practical systems that have been designed for real applications and scientific investigation in physics and biomedicine and biology.

Following its tradition CAMP05 continues to be an international event. Nine countries are represented by the accepted authors: France, Germany, Japan, Korea, Spain, Switzerland, United Kingdom, United States of America, and Italy.

It has been our pleasure to serve as Co-chairs for this workshop. We are greatly indebted to the organizer of the previous workshops for the groundwork that they have done, which helped greatly our job. The program Committee and reviewers did an excellent job of supplying very through and thoughtful reviews on a very tight schedule. We are also grateful to the member of the Steering committee for their valuable input, and especially: Virginio Cantoni, Steven Tanimoto, Guna Seetharaman, and Bertrand Zavidovique for their frequent suggestions and advice. We would like to thank Cesare Valenti, Giosuè Lo Bosco, and all students to help with the conference logistics.

Welcome to Palermo, city rich of history and cultural spirit.

Vito Di Gesù
Domenico Tegolo