

Computer Vision for Biomedical Image Applications: First International Workshop, CVBIA 2005, Beijing, China, October 21, 2005, Proceedings (Lecture Notes in Computer Science)

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With the rapid increase in the variety and quantity of biomedical images in recent years, we see a steadily growing number of computer vision technologies applied to biomedical applications. The time is ripe for us to take a closer look at the accomplishments and experiences gained in this research subdomain, and to strategically plan the directions of our future research. The scientific goal of our workshop, "Computer Vision for Biomedical Image Applications: Current Techniques and Future Trends" (CVBIA), is to examine the diverse applications of computer vision to biomedical image applications, considering both current methods and promising new trends. An additional goal is to provide the opportunity for direct interactions between (1) prominent senior researchers and young scientists, including students, postdoctoral associates and junior faculty; (2) local researchers and international leaders in biomedical image analysis; and (3) computer scientists and medical practitioners. Our CVBIA workshop had two novel characteristics: each contributed paper was authored primarily by a young scientist, and the workshop attracted an unusually large number of well-respected invited speakers (and their papers). We had the good fortune of having Dr. Ayache of INRIA, France to talk about "Computational Anatomy and Computational Physiology," Prof. Grimson of MIT to discuss "Analyzing Anatomical Structures: Leveraging Multiple Sources of Knowledge," Dr. Jiang of the Chinese Academy of Sciences to present their work on "Computational Neuroanatomy and Brain Connectivity," Prof.

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