The search result refers to the paper "Subpixel resolution with steerable filters" by James C. Brakefield, presented at the [IS&T/SPIE 1994 International Symposium on Electronic Imaging](https://www.google.com/search?sca_esv=bb4d93514f3ace56&cs=0&sxsrf=AE3TifM4K5aEyKIVWJIYwx34DHxzcTHxhw%3A1759892668348&q=IS%26T%2FSPIE+1994+International+Symposium+on+Electronic+Imaging&sa=X&ved=2ahUKEwjckcGKz5OQAxXNkWoFHYSqH8cQxccNegQIBRAB&mstk=AUtExfB9Cu6b4O2bxBPPi8vGTYnWi8AR1Rq82aQ9p2dGJTjzb8YJgJCBQXIs6iIv-3AO4KIOaNwFccHJRzc-PE7sj3e4k8i-a9aql6Ctocahhh3jy3T8XKU6GioZOCTibvrs9y0VUo4xGtIxB-ve3V7Y90pN2zspztdQcVYmoFM3M0k-JOtfxsd721LMXOxM2BgdfKQkW25dowDx4vJhAvY6l84x6wOSUuM--CbgIJ0tVHQu3yrktvEpBPswTOwVad-X7ltXnu3JcCR9todw5XTVIgSw&csui=3) in San Jose, CA. The paper describes an algorithm using steerable filters to determine the precise location and orientation of signal traces in stereo x-ray images, a method inspired by the hyperacuity of biological vision, according to the [SPIE Digital Library](https://www.spiedigitallibrary.org/conference-proceedings-of-spie/2182/0000/Subpixel-resolution-with-steerable-filters/10.1117/12.171082.full).

Key details about the paper and its context:

* **Paper Title**: "Subpixel resolution with steerable filters"
* **Author**: James C. Brakefield
* **Event**: IS&T/SPIE 1994 International Symposium on Electronic Imaging: Science and Technology
* **Date**: 1994
* **Location**: San Jose, CA, United States
* **Publication**: Proceedings Volume 2182, Image and Video Processing II
* **DOI**: 10.1117/12.171082

What the paper addresses:

* The paper details an algorithm that uses steerable filters to enable subpixel resolution in image analysis.
* Specifically, it demonstrates how this technique can be used for precisely locating and orienting signal traces in stereo x-ray images for diagnosing multi-layer circuit card assemblies.
* The approach is related to biological vision, particularly the concept of hyperacuity, which is the ability of the visual system to achieve greater precision than the individual receptors.