| Wavelets have become a very important tool in the field of image analysis. There are two main |
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| approaches to using wavelets: the time domain approach, and spatial domain approach. When |
| the aim of analysis is to obtain the information about the dynamics of the signal, wavelets are |
| used in the time domain. This can be helpful for analyzing smoke dynamics in an image |
| sequence. When used in spatial domain wavelets provide information about the texture property |
| of smoke. Some of the articles that use wavelets for smoke detection are listed here: |
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"Automatic Fire Smoke Detection Based on Image Visual Features",

Proceedings of the 2007 International Conference on Computational Intelligence and Security Workshops, 316-319, 2007.

http://www.computer.org/portal/web/csdl/doi/10.1109/CIS.Workshops.2007.55

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| "Wavelet based real-time smoke detection in video", |
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| EUSIPCO '05, 2005. |
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| "Contour Based Smoke Detection in Video Using Wavelets", |
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European Signal Processing Conference, 2006.

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| P. Piccinini, S. Calderara, R. Cucchiara, |
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| "Reliable smoke detection system in the domains of image energy and color", |
| International Conference on Image Processing, 2008. |
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| http://www-video.eecs.berkeley.edu/Proceedings/ICIP2008/pdfs/0001376.pdf |
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