# ACTUALLY USED IN THESIS:

|  |
| --- |
| "How smoke detector is made," Advameg Inc., 2020. [Online]. Available: http://www.madehow.com/Volume-2/Smoke-Detector.html. [Accessed 02 02 2020]. |
| "Global Smoke Detector Industry," Global Industry Analysts, 2019. [Online]. Available: https://www.reportlinker.com/p05799669/Global-Smoke-Detector-Industry.html?utm\_source=PRN. [Accessed 02 02 2020]. |
| D. Laws, "Who Invented The Transistor? -CHM," Computer History Museum, 04 12 2013. [Online]. Available: https://computerhistory.org/blog/who-invented-the-transistor/?key=who-invented-the-transistor. [Accessed 02 02 2020]. |
| M. Ahrens, "Smoke Alarm Executive Summary," 09 2015. [Online]. Available: https://www.nfpa.org/-/media/Files/News-and-Research/Fire-statistics-and-reports/Fact-sheets/SmokeAlarmsFactSheet.ashx?la=en. [Accessed 02 02 2020]. |
| C. Beyler and e. al., "Fire Science Reviews The Affordable Home Smoke Alarm," 2017. [Online]. Available: https://firesciencereviews-1springeropen-1com-10003428p0a2c.han.technikum-wien.at/articles/10.1186/s40038-016-0015-0. [Accessed 29 01 2020]. |
| International Code Council, "IFC - ICC," Internation Code Council Inc., 2018. [Online]. Available: https://www.iccsafe.org/products-and-services/i-codes/2018-i-codes/ifc/. [Accessed 02 02 2020]. |
| Österreichisches Institut für Bautechnik, "OIB Richtline 2 | OIB," 04 2019. [Online]. Available: https://www.oib.or.at/sites/default/files/richtlinie\_2\_12.04.19\_0.pdf. [Accessed 02 02 2020]. |
| Österreichischer Bundesfeuerwehrverband , "TRVB-122-13-ohne-Anhang-3," 06 06 2013. [Online]. Available: https://www.bundesfeuerwehrverband.at/wp-content/uploads/2017/07/TRVB-122-13-ohne-Anhang-3.pdf. [Accessed 02 02 2020]. |
| A. Merschbacher, Brandschutzfibel, Planegg, Deutschland: Springer Vieweg, 2018. |
| E. Smith, "The Best Smoke Detectors Of 2020," reviews.org, 03 01 2020. [Online]. Available: https://www.reviews.org/safety/best-smoke-detectors/. [Accessed 29 01 2020]. |
| Hekatron Vertriebs GmbH, "produktinformation-genius-plus-und-genius-plus-x," Hekatron Vertriebs GmbH, 16 03 2018. [Online]. Available: https://www.hekatron-brandschutz.de/fileadmin/hekatron\_elo/eloid/produktinformation-genius-plus-und-genius-plus-x\_9708245.pdf. [Accessed 29 01 2020]. |
| M. J. Gollner, "Fire Technol (2016) 52," 13 06 2016. [Online]. Available: 1193. https://doi-1org-1000342kg0478.han.technikum-wien.at/10.1007/s10694-016-0606-2. [Accessed 29 01 2020]. |
| J. Fleming, "Smoke Detector Technlogy Research," The World Safety Foundation, 2010. [Online]. Available: https://de.scribd.com/document/14390291/Smoke-Detector-Technology-Research-Chief-Jay-Fleming. [Accessed 11 02 2020]. |
| Encyclopaedie Britannica In.c, "Combustion - Physical and chemical aspects of combustion," Encyclopaedie Britannica In.c, 2020. [Online]. Available: https://www.britannica.com/science/combustion/Physical-and-chemical-aspects-of-combustion. [Accessed 11 02 2020]. |
| J. W. e. al., Verbrennung - Physikalisch-Chemische Grundlagen, Modellierung, Berlin: Springer Berlin, 2001. |
| United States Nuclear Regularty Commission, "NRC Backgrounder of Smoke Detectors," United States Nuclear Regularty Commission, 22 05 2017. [Online]. Available: https://www.nrc.gov/reading-rm/doc-collections/fact-sheets/smoke-detectors.html. [Accessed 02 02 2020]. |
| Bundesamt für Strahlenschutz, "BfS - Ionisationsrauchmelder (IRM)," Bundesamt für Strahlenschutz, 07 06 2019. [Online]. Available: https://www.bfs.de/DE/themen/ion/anwendung-alltag/rauchmelder/rauchmelder\_node.html. [Accessed 29 01 2020]. |
| K. Girschweiler, "Die Ionisationsrauchmelder müssen weg," Siemens Schweiz AG, [Online]. Available: https://www.siemens.ch/solutions/article/212. [Accessed 29 01 2020]. |
| Bundesministerium für Landwirtschaft, Regionen und Tourismus, "Bauartzulassungen," Bundesministerium für Landwirtschaft, Regionen und Tourismus, 07 01 2019. [Online]. Available: https://www.bmlrt.gv.at/umwelt/strahlen-atom/rechtsvorschriften/weitere-rechtliche-infos/bauart.html. [Accessed 29 01 2020]. |
| Hochiki Europe (UK) Ltd., "Understanding Different Fire Detection," [Online]. Available: https://www.hochikieurope.com/whitepapers/Applications.pdf. [Accessed 02 02 2020]. |
| Confederation of Fire Protection Associations Europe, "CFPA-E Guideline No 10:2008 F," Confederation of Fire Protection Associations Europe, 12 09 2008. [Online]. Available: http://cfpa-e.eu/wp-content/uploads/files/guidelines/CFPA\_E\_Guideline\_No\_10\_2008.pdf. [Accessed 02 02 2020]. |
| Österreichischer Bundesfeuerwehrverband, "TRVB 123 / 11 (S) Brandmeldeanlagen," [Online]. Available: https://www.bundesfeuerwehrverband.at/produkt/trvb-123-11-s-brandmeldeanlagen/. [Accessed 17 02 2020]. |
| Firewize Holdings Pty Ltd., "Heat Detectors," Firewize Holdings Pty Ltd., [Online]. Available: http://firewize.com/learn/principle/heat-detectors. [Accessed 15 02 2020]. |
| T. W. Davies, "FOURIER'S LAW," Thermopedia TM, 14 02 2011. [Online]. Available: 10.1615/AtoZ.f.fourier\_s\_law. [Accessed 15 02 2020]. |
| O. Khayal, "Thermal conductivity values for various materials at 300K," 07 2017. [Online]. Available: https://www.researchgate.net/figure/1-Thermal-conductivity-values-for-various-materials-at-300-K\_tbl1\_318456109. [Accessed 15 02 2020]. |
| Hekatron Vertriebs GmbH, "Produktinformation CO-Brandmelder," [Online]. Available: https://www.hekatron-brandschutz.de/fileadmin/hekatron\_elo/eloid/produktinformation-co-melder\_12308530.pdf. [Accessed 29 01 2020]. |
| K. Toko, "Biomimetic Sensor Technology," Measurement Science and Technology, Volume 12, Number 2, 02 2001. |
| detectcarbonmonoxide.com, "CO Health Risks," detectcarbonmonoxide.com, [Online]. Available: https://www.detectcarbonmonoxide.com/co-health-risks/. [Accessed 16 02 2020]. |
| United States Environmental Protection Agency, United States Environmental Protection Agency, [Online]. Available: https://www.epa.gov/indoor-air-quality-iaq/what-about-carbon-monoxide-detectors. [Accessed 16 02 2020]. |
| Hekatron Vertriebs GmbH, "Katalog 2020 CO- und Rauchwarnmelder," Brühlmatten 9, 79295 Sulzburg, 2020. |
| Schrack Seconet AG, "Schrack Seconet Brandmeldesysteme," [Online]. Available: https://www.metrixsecurity.com/images/Products/fire%20detection/firealarm.pdf. [Accessed 17 02 2020]. |
| Hekatron Vertriebs GmbH, "Datenblatt Mehrfachsensormelder MTD 533X," 15 02 2013. [Online]. Available: https://www.brand-feuer.de/images/2/2f/Db\_mtd\_533x.pdf. [Accessed 17 02 2020]. |
| Hekatron Vertriebs GmbH, "Integral IP," Hekatron Vertriebs GmbH, [Online]. Available: https://www.hekatron-brandschutz.de/fileadmin/hekatron\_elo/eloid/systemuebersicht-integral-ip\_6118593.pdf. [Accessed 02 02 2020]. |
| Hekatron Vertriebs GmbH, "Prospekt Brandmelder," [Online]. Available: https://www.hekatron-brandschutz.de/fileadmin/hekatron\_elo/eloid/prospekt-brandmelder\_8549781.pdf. [Accessed 02 02 2020]. |
| Google LLC, "Nest Protect - Intelligenter Rauchmelder," [Online]. Available: https://store.google.com/product/nest\_protect\_2nd\_gen\_specs. [Accessed 17 02 2020]. |
| Abus August Bremicker Söhne KG, "Abus Rauchwarnmelder RWM450," [Online]. Available: https://www.abus.com/ger/Sicherheit-Zuhause/Brandschutz/Funk-Rauchmelder/RWM450-Funk. [Accessed 17 02 2020]. |
| Securiton AG, "SecuriRAS ASD aspirating smoke detectors," 05 2019. [Online]. Available: https://www.securiton.com/en/products/fire-detection/smoke-detection-systems/securiras-asd.html. [Accessed 17 02 2020]. |
| D. Allen, "Fire Protection Association Australia," 2017. [Online]. Available: http://www.fpaa.com.au/media/229743/d3-fp1-p8-allen.ppt.pdf. [Accessed 17 02 2020]. |
| P. B. C. C. P. e. a. Johnson, "Very Early Smoke Detection Apparatus (VESDA)," Fire Science Reviews 6, 2017. |
| Earth System Research Laboratory, "Aerosol Instrumentation - Nephelometer," U.S. Department of Commerce , [Online]. Available: https://www.esrl.noaa.gov/gmd/aero/instrumentation/neph\_desc.html. [Accessed 19 02 2020]. |
| Siemens Building Technologies, "SWING Funk-Brandmeldesystem," 02 11 2018. [Online]. Available: https://www.downloads.siemens.com/download-center/Download.aspx?pos=download&fct=getasset&id1=A6V10381325. [Accessed 21 02 2020]. |
| Siemens AG, "SWING – Funk-Brandmelder," 13 07 2017. [Online]. Available: https://new.siemens.com/global/. [Accessed 26 02 2020]. |
| Hekatron Vertriebs GmbH, "Bedienungsanleitung Funkmodul Basis X Pro X," 18 11 2018. [Online]. Available: https://www.hekatron-brandschutz.de/. [Accessed 21 02 2020]. |
| NXP Freescale Semiconductor, "Photoelectric Smoke Detector IC," 11 2006. [Online]. Available: https://www.nxp.com/docs/en/data-sheet/MC145012.pdf. [Accessed 12 02 2020]. |

# Article: Vision based smoke detection system using image energy and color information

**Cite this article as:**

Calderara, S., Piccinini, P. & Cucchiara, R. Machine Vision and Applications (2011) 22: 705. https://doi-1org-10003428p0681.han.technikum-wien.at/10.1007/s00138-010-0272-1

**Received** 11 May 2009 **Accepted** 27 April 2010 **First Online** 21 May 2010 **DOI** https://doi-1org-10003428p0681.han.technikum-wien.at/10.1007/s00138-010-0272-1 **Publisher Name** Springer-Verlag **Print ISSN** 0932-8092 **Online ISSN** 1432-1769

# Online PDF: <https://www.hekatron-brandschutz.de/fileadmin/hekatron_elo/eloid/systemuebersicht-integral-ip_6118593.pdf>

Systemübersicht Brandmeldesysteme

# Online PDF: https://www.hekatron-brandschutz.de/fileadmin/hekatron\_elo/eloid/prospekt-brandmeldesysteme-integral\_9735661.pdf

Übersicht Integral und Peripherie

# Website: <https://www.schrack-seconet.com/en/products_solutions/fire_alarm/special_firedetectors/linear_smokedetector/index.html>

Linearmelder

# Website: https://www.schrack-seconet.com/en/products\_solutions/fire\_alarm/special\_firedetectors/smoke\_aspirating\_systems/index.html

Rauchansaugsystem

# Website: <https://tessel.io/blog/113259439202/tessel-2-hardware-overview>

Hardwarebeschreibung des Tessel 2

# Website: <https://www.sitepoint.com/tessel-2-pairing-javascript-and-the-internet-of-things-with-ease/>

LEDS als Array anzusprechen bei Tessel 2