



博学

Study extensively, Enquire accurately, Reflect carefully,
Discriminate clearly, Practise earnestly.
博学、审问、慎思、明辨、笃行

DESIGN: WEB DESIGNER: HANRONG
FOR OPTIMIZING YOUR WEB OPTICATING WEB FOR OPTIMIZING YOUR WEB 4
DESIGN: HANRONG: FOR OPTIMIZING YOUR
WEB SITE: CREATING WEB DESIGN
FOR OPTIMIZING YOUR WEB WITH QUALITY WEB DESIGN
FOR OPTIMIZING YOUR WEB SITE

当前位置: 博导风采 > 教师资料

黄继武

• 基本情况

性别:	男
研究方向:	多媒体取证、多媒体信息安全、数字水印与信息隐藏、多媒体信号处理
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• 详细介绍

基本情况

工学博士。中山大学信息科学与技术学院教授。国家杰出青年科学基金、政府特殊津贴获得者。

教育

西安电子科技大学电子对抗专业, 工学学士;
清华大学通信与电子系统专业, 工学硕士;
中国科学院自动化研究所模式识别与智能系统专业, 工学博士。

研究兴趣

多媒体取证、数字水印与信息隐藏、多媒体信息安全、多媒体信号处理

主要学术活动与兼职

Associate editor, IEEE Transactions on Information Forensics and Security
Associate editor, EURASIP Journal on Information Security (Hindawi),
Associate editor, LNCS Transactions on Data Hiding and Multimedia Security (Springer)
Associate editor, Digital Signal Processing (Elsevier)
Associate editor, APSIPA Transactions on Signal and Information Processing (Cambridge University Press)
编委: 计算机学报、通信学报、软件学报、计算机研究与发展。
BoG (Board of Governors) 成员, Asia-Pacific Signal and Information Processing Association (AP SIPA)

IEEE 电路与系统学会 (CASS) 多媒体系统与应用技术委员会 (MSA TC) 成员(2002~)
IEEE 信号处理学会 (SPS) 信息取证与安全技术委员会 (IFS TC) 成员(2012.1~2014.12)
IEEE Circuits & Systems Society Guangzhou Chapter 主席, 2008-2011

• 服务指南

学院地图 办事指南 团委
资源下载 校友会 联系我们

• 常用功能

网络硬盘

• 精品课程

数据挖掘 操作系统
数据库原理 系统分析与设计
电路与电子技术 微机原理与应用

• 相关链接

计算机技术开放式综合实践
硕士生导师选择系统
软件学院

IEEE Signal Processing Society Guangzhou Chapt5 主席, 2010-现在

信息安全国家重点实验室学术委员会委员

主讲课程

图象信息处理、信息处理技术应用、信号与系统

研究生、博士后招生

硕士生、博士生、博士后: 计算机科学与技术、信息与通信工程

近年所承担的主要科研项目

- 1) NSFC-广东联合基金重点项目“网络媒体内容服务安全理论与关键技术”, (2012.1-2015.12) (U1135001).
- 2) 国家自然科学基金重点项目“数字媒体内容安全关键技术及评测方法的研究”(2007.1-2010.12) (60633030)
- 3) 国家973计划项目“网络媒体智能处理的理论与方法”(2011CB302200) 课题4“网络可视媒体安全”(2011CB302204) (2010.1-2014.8)
- 4) 国家973计划项目“可视媒体智能处理的理论与方法”(2006CB303100) 课题4“基于内容的可视媒体安全”(2006CB303104) (2006.9-2010.8)。

获奖

稳健数字水印方法。教育部提名国家科学技术奖自然科学一等奖(第一), 2004。

可视媒体几何计算的理论与方法。教育部高校科研优秀成果奖自然科学一等奖(第二), 2012。

Best Student Paper Award, IWDW2008 (Rui Yang, Xiangui Kang, Jiwu Huang. Robust Audio Watermarking Based On Log-polar Frequency Index. IWDW2008), 2008.

Best Student Paper Award Nominated. (Ligang Zheng, Guoping Qiu Jiwu Huang, Hao Fu. Salient Covariance For Near-duplicate Image And Video Detection. Prof. of IEEE Int. Conf. on Image Processing, 2585-2588, 2011), 2011

论文引用

论文被引用4400多次 (google scholar) . H-index: 37

著作

王育民、张彤、黄继武、董庆宽 编著。信息隐藏技术——理论与应用。清华大学出版社, ISBN 7302119252. 2006.3。

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- [2] Yanqiang Lei, Weiqi Luo, Yuangen Wang, Jiwu Huang. Video Sequence Matching Based on the Invariance of Color Correlation. *IEEE Trans. on Circuits and Systems for Video Technology*. 22 (9): 1332-1343, 2012
- [3] Chuntao Wang, Jiangqun Ni, Jiwu Huang. An Informed Watermarking Scheme Using Hidden Markov Model in the Wavelet Domain. *IEEE Trans. on Information Forensics & Security*. 7(3):853-867, 2012.
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- [5] Rui Yang, Zhenhua Qu, Jiwu Huang. Exposing MP3 Audio Forgeries Using Frame Offsets. *ACM Trans. on Multimedia Computing, Communications, and Applications*. Volume 8, Issue 2S, Article No. 33, p. 1-20, September 2012
- [6] Zhongwei He, Wei Lu, Wei Sun, Jiwu Huang. Digital image splicing detection based on Markov features in DCT and DWT domain. *Pattern Recognition*, 45(12): 4292-4299, 2012
- [7] Haotian Wu and Jiwu Huang. Reversible Image Watermarking on Prediction Errors by Efficient Histogram Modification. *Signal Processing*. **Volume 92, Issue 12**, Pages 3000-3009, 2012.
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- [10] Xiangui Kang, Yinxiang Li, Zhenhua Qu and Jiwu Huang. Enhancing Source Camera Identification Performance with a Camera Reference Phase Sensor Pattern Noise. *IEEE Trans. on Information Forensics & Security*. 7(2): 393-402, 2012.
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- [12] Yanqing Lei, Yunagen Wang, Jiwu Huang. Robust Image Hash in Radon Transform Domain for Authentication. *Signal Processing: Image Communication*. 26 (2011) 280 – 288
- [13] Xiangui Kang, Member, IEEE, Rui Yang, Student Member, IEEE, and Jiwu Huang. Geometric Invariant Audio Watermarking Based on an LCM Feature. *IEEE Trans. on Multimedia*, 13(2): 181-190, April, 2011.
- [14] Weiqi Luo, Jiwu Huang. Security Analysis on Spatial ± 1 Steganography for JPEG Decompressed Images. *IEEE Signal Processing Letters*, 18(1): 39-42, 2011.
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- [30] Xiangui Kang, Jiwu Huang, Wenjun Zeng. Improving Robustness of Quantization-Based Image watermarking via Adaptive Receiver. *IEEE Trans. on Multimedia*, vol.10, no.6, pp. 953-959, Oct. 2008.
- [31] Shijun Xiang, Hyoung-Joong Kim, Jiwu Huang. Invariant Image Watermarking Based on the Statistical Features in the Low-Frequency Domain. *IEEE Trans. on Circuits and Systems for Video Technology*, 18(6): 777-790, 2008.
- [32] Shijun Xiang, HJ Kim and Jiwu Huang "Audio Watermarking Robust to Time-Scale Modification and MP3 Compression" *Signal Processing*, vol. 88, pp. 2372-2388. 2008.
- [33] Bin Li, Yanmei Fang and Jiwu Huang. Steganalysis of Multiple-Base Notational System Steganography. *IEEE Signal Processing Letter*, vol.15, pp.493-496.2008
- [34] Shijun Xiang, Jiwu Huang. Histogram-Based Audio Watermarking against Time-Scale Modifications and Cropping Attacks. *IEEE Trans. on Multimedia*. 9(7): 1357-1372, 2007.
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- d on Multiband Wavelets and Empirical Mode Decomposition. *IEEE Trans. on Image Processing*. 2007, 16(8):1956-1966.
- [36] Yongjian Hu, Sam Kwong, Jiwu Huang. A new method of reversible visible watermarking. *IEEE Trans. on Circuits and Systems for Video Technology*. 16(1): 129-133, 2006.
- [37] Shaoquan Wu, Jiwu Huang, Daren Huang, Yun Q. Shi, Efficiently Self-Synchronized Audio Watermarking for Assured Audio Data Transmission. *IEEE Trans. on Broadcasting*. 2005, 51(1): 69-76.
- [38] Xiangui Kang, Jiwu Huang, Yun Q. Shi, Yan Lin. A DWT-DFT composite watermarking scheme robust to both affine transform and JPEG compression. *IEEE Trans. on Circuits and Systems for Video Technology*. 2003, 13(8): 776-786.
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- [40] Jiwu Huang, Yun Q. Shi, Yi Shi, Embedding image watermarks in DC components, *IEEE Trans. on Circuits and Systems for Video Technology*. 2000, 10(6), pp. 974-979.

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- [1] Zhenhua Qu, Xiangui Kang, Jiwu Huang, Yinxiang Li. Forensic sensor pattern noise extraction from large image data set. 2013 IEEE Int. Conf. on Acoustics, Speech and Signal Processing, (accepted)
- [2] Haojun Wu, Yong Wang, Jiwu Huang. Blind detection of electronic disguised voice. 2013 IEEE Int. Conf. on Acoustics, Speech and Signal Processing, (accepted)
- [3] Haodong Li, Weiqi Luo, Jiwu Huang. Countering Anti-JPEG Compression Forensics. 2012 IEEE Int. Conf. on Image Processing, pp. 241-244.
- [4] Peijia Zheng, Jiwu Huang. Walsh-Hadamard Transform in the Homomorphic Encrypted Domain and Its Application in Image Watermarking. Proc. of 14th Information Hiding Conference. LNCS 7692, pp. 240-254.
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- [8] Ligang Zheng, Guoping Qiu, Jiwu Huang. Salient Covariance For Near-duplicate Image And Video Detection. Proc. of IEEE Int. Conf. on Image Processing, pp. 2585-2588, 2011.
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- [11] Jian Cao, Jiwu Huang, Jiangqun Ni. Spread Spectrum Watermarking to Achieve a Trade-off Between Security and Robustness. Proc. of Int. Workshop on Information Hiding 2010
- [12] Jian Cao, Jiwu Huang. Provably Secure Spread-spectrum Watermarking Schemes in the Known Message Attack. Proc. of Int. Workshop on Information Hiding 2010
- [13] Rui Yang, Yun Q. Shi, Jiwu Huang. Detecting double compression of audio signal. Proc. IS&T/SPIE Electronic Imaging 2010: Media Forensics and Security XII, 2010.1
- [14] Zhenhua Qu, Guoping Qiu, and Jiwu Huang. Detect Digital Image Splicing with Visual Cues. Proc. of 11th Int. Workshop on Information Hiding. LNCS 5806, pp. 247-261, 2009
- [15] Xinzhi Yao, Hongmei Liu, Wei Rui, Jiwu Huang. Content-based authentication algorithm for binary images. Proc. of 2007 IEEE Int. Conf. on Image Processing, pp. 2893-2896, 2009
- [16] Rui Yang, Yun Q. Shi, Jiwu Huang. Defeating Fake-Quality MP3. Proc. of the 11th ACM Workshop on Multimedia and Security, pp. 117-124, 2009
- [17] Yong Wang, Jiwu Huang. Robust AVS Audio Watermarking. Proc. of 8th Int Workshop on Digital Processing, LNCS 5703, pp. 29-38, 2009
- [18] Zhenhua Qu, Weiqi Luo, Jiwu Huang, "A convolutive mixing model for shifted double jpeg compression with application to passive image authentication," Proc. of IEEE Int. Conf. on Acoust, Speech and Signal Processing, 2008, 1661-1664.
- [19] Fangjun Huang, Bin Li, Jiwu Huang. Universal JPEG steganalysis based on microscopic and macroscopic calibration. Proc. of 2008 IEEE Int. Conf. on Image Processing, pp. 2068-2071, 2008
- [20] Fangjun Huang, Yun Q. Shi, Jiwu Huang. A study on security performance of YASS. Proc. of 2008 IEEE Int. Conf. on Image Processing, pp.2084-2087, 2008.
- [21] Xiangui Kang, Xiong Zhong, Jiwu Huang, Wenjun Zeng. An efficient print-scanning resilient data hiding scheme based on a novel LPM. Proc. of 2008 IEEE Int. Conf. on Image Processing, pp. 2080-2083, 2008
- [22] Weiqi Luo, Min Wu, Jiwu Huang. MPEG recompression detection based on block artifacts. Proc. of SPIE: Security, Forensics, Steganography, and Watermarking of Multimedia Contents X. Volume 6819, pp. 68190X-68190X-12, 2008.
- [23] Bin Li, Jiwu Huang, Yun Q. Shi. Textural feature based universal steganalysis. Proc. of SPIE: Forensics, Steganography, and Watermarking of Multimedia Contents X. Volume 6819, pp. 681912-681912-12, 2008
- [24] Bin Li, Yun Q. Shi, Jiwu Huang: Steganalysis of YASS. Proc. of the 10th ACM Workshop on Multimedia and Security, pp: 139-148, 2008

联系办法

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Education:

Ph.D. Pattern Recognition and Intelligent System,

Institute of Automation, Chinese Academy of Science, China, 1998

M.S. Electronic Engineering, Tsinghua University, China, 1987

B.S. Electronic Engineering, Xidian University, China, 1982,

RESEARCH INTERESTING:

Digital Watermarking and Data Hiding, Multimedia Forensics and Security, Multimedia Signal Processing

HONOR AND AWARDS:

1. The first-grade award in teaching, Guangdong Province Government, China, 2010
2. The best student paper award, 8th International Workshop on Digital Watermarking (Pusan, Korea) in 2008.
3. The first-grade award in science research, the National Ministry of Education, China, 2004
4. China National Funds for Distinguished Young Scientists, NSF of China, 2003
5. The Best Paper Award in Nature Science in Guangdong Province, 2001
6. The first-grade award for excellent journal paper, China Society and Technology Association, 2009

RECENT RESEARCH GRANTS (PI)

1. "Security Technology and Evaluation for Digital Media," NSF of China, 2007.1~2010.12.

2. "Security for Visual Media in Networks," National Basic Research Program of China (973 program), the Ministry of Science and Technology, China, 2010.1~2014.8.
3. "Content Security for Visual Media," National Basic Research Program of China (973 program), the Ministry of Science and Technology, China, 2006.9~2010.8.

Professional Activities

- Associate Editor, IEEE Trans. on Information Forensics and Security
- Associate Editor, EURASIP Journal on Information Security (Hindawi),
- Associate Editor, LNCS Transactions on Data Hiding and Multimedia Security (Springer-Verlag)
- Associate editor, Digital Signal Processing (Elsevier)
- Associate editor, APSIPA Transactions on Signal and Information Processing (Cambridge University Press)
- Member of Multimedia Systems and Applications Technical Committee, IEEE Circuits and Systems Society, 2002-present
- Member of Information Forensics and Security Technical Committee, IEEE Signal Processing Society, 2012.1-2014.12
- Chair, Guangzhou Chapter of IEEE Circuits and Systems Society, 2008-present
- Chair, Guangzhou Chapter of IEEE Signal Processing Society, 2010-present
- BoG member, Asia Pacific Signal and Information Processing Association (APSIPA), 2009-present

CITATIONS

More than 4400 citations (google scholar). H-index: 37

BOOK and BOOK CHAPTERS

1. Yumin Wang, Tong Zhang, Jiwu Huang, Qingkuan Dong. *Information Hiding Technology: Theory and Applications*. Tsinghua University Press, 2006
2. Y. Q. Shi, J. Huang, and H. K. Lee. Spread Spectrum Video Data Hiding, Interleaving and Synchronization. *Intelligent Watermarking Techniques*, Chapter 18, pp. 515-558, World Scientific Publishing Company.
3. Xiangui Kang, Jiwu Huang, Yun. Q. Shi. Image Data Hiding Robust to Both Geometric Distortion and JPEG Compression. *Multimedia Security Handbook* (Ed. Borko Furht and Darko Kirovski), Chapter 15, pp. 467-492. CRC Press. 2004.
4. Fangjun Huang, Bin Li, Y. Q. Shi, Jiwu Huang, Guorong Xuan, "Image Steganalysis", *Intelligent Multimedia Analysis for Security Applications*, (Ed. Husrev Taha Sencar), Chapter 3, pp. 275-303, Springer, 2010.

SOME SELECTED JOURNAL PAPERS

1. Ligang Zheng, Guoping Qiu, Yanqiang Lei and Jiwu Huang. Near-duplicate Image Detection in a Visually Salient Riemannian Space. *IEEE Trans. on Information Forensics & Security*. 7(5): 1578 – 1593, 2012.
2. Yanqiang Lei, Weiqi Luo, Yuangen Wang, Jiwu Huang. Video Sequence Matching Based on the Invariance of Color Correlation. *IEEE Trans. on Circuits and Systems for Video Technology*. 22 (9): 1332-1343, 2012
3. Chuntao Wang, Jiangqun Ni, Jiwu Huang. An Informed Watermarking Scheme Using Hidden Markov Model in the Wavelet Domain. *IEEE Trans. on Information Forensics & Security*. 7(3):853-867, 2012.
4. Jian Li, Hongmei Liu, Jiwu Huang, Yun Q. Shi. Reference Index-Based H.264 Video Watermarking Scheme. *ACM Trans. on Multimedia Computing, Communications, and Applications*. Volume 8, Issue 2S, Article No. 33, p1-22, September 2012
5. Rui Yang, Zhenhua Qu, Jiwu Huang. Exposing MP3 Audio Forgeries Using Frame Offsets. *ACM Trans. on Multimedia Computing, Communications, and Applications*. Volume 8, Issue 2S, Article No. 33, p. 1-20, September 2012
6. Zhongwei He, Wei Lu, Wei Sun, Jiwu Huang. Digital image splicing detection based on Markov fe

7. Haotian Wu and Jiwu Huang. Reversible Image Watermarking on Prediction Errors by Efficient Histogram Modification. Signal Processing. Volume 92, Issue 12, Pages 3000-3009, 2012.
8. Fangjun Huang, Jiwu Huang, Yun Q. Shi. New Channel Selection Rule for JPEG Steganography. I EEE Trans. on Information Forensics & Security. 7(4):1181-1191, 2012.
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10. Xiangui Kang, Yinxiang Li, Zhenhua Qu and Jiwu Huang. Enhancing Source Camera Identification Performance with a Camera Reference Phase Sensor Pattern Noise. IEEE Trans. on Information Forensics & Security. 7(2): 393-402, 2012.
11. Guopu Zhu, Sam Kwong, Jiwu Huang, and Jianquan Yang. Random Gray Code and Its Performance Analysis for Image Hashing. Signal Processing. 91 (2011) 2178–2193.
12. Yanqing Lei, Yunagen Wang, Jiwu Huang. Robust Image Hash in Radon Transform Domain for Authentication. Signal Processing: Image Communication. 26 (2011) 280 – 288
13. Xiangui Kang, Member, IEEE, Rui Yang, Student Member, IEEE, and Jiwu Huang. Geometric Invariant Audio Watermarking Based on an LCM Feature. IEEE Trans. on Multimedia, 13(2): 181-190, April, 2011.
14. Weiqi Luo, Jiwu Huang. Security Analysis on Spatial ± 1 Steganography for JPEG Decompressed Images. IEEE Signal Processing Letters, 18(1): 39-42, 2011.
15. Fangjun Huang, Weiqi Luo, Jiwu Huang. Steganalysis of JPEG steganography with complementary embedding strategy. IET Information Security, 5 (1) : 10-18. 2011
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17. Hongmei Liu, Xinzhi Yao, Jiwu Huang: Minority codes with improved embedding efficiency for large payloads. Multimedia Tools Applications. 52(2-3): 431-443 (2011)
18. Fangjun Huang, Jiwu Huang, Yun Q. Shi. Detecting Double JPEG Compression with the Same Quantization Matrix. IEEE Trans. on Information Forensics & Security, 5(4): 838-856.
19. Weiqi Luo, Yuangen Wang, Jiwu Huang. Detection of Quantization Artifacts and Its Applications to Transform Encoder Identification. IEEE Trans. on Information Forensics & Security, 5(4): 810-815, 2010
20. Fangjun Huang, Jiwu Huang, Yun Q. Shi. An Experimental Study on the Security Performance of YASS. IEEE Trans. on Information Forensics & Security, 5(3): 374-380
21. Weiqi Luo, Jiwu Huang. JPEG Error Analysis and Its Applications to Digital Image Forensics. IEEE Trans. on Information Forensics & Security, 5(3): 480-491
22. Weiqi Luo, Fangjun Huang, Jiwu Huang. Edge Adaptive Image Steganography Based on LSB Matching Revisited. IEEE Trans. on Information Forensics & Security, 5(2): 201-214, 2010.
23. Xiangui Kang, Jiwu Huang, Wenjun Zeng. Efficient General Print-Scanning Resilient Data Hiding Based on Uniform Log-polar Mapping. IEEE Trans. on Information Forensics & Security, 5(1): 1-12, 2010.
24. Guopu Zhu, Jiwu Huang, Sam Kwong, Jianquan Yang. Fragility Analysis of Adaptive Quantization Based Image Hashing. IEEE Trans. on Information Forensics & Security, 5(1): 133-147, 2010.
25. Yong Wang, Shaoquan Wu, and Jiwu Huang. **Audio Watermarking Scheme Robust against Desynchronization Based on the Dyadic Wavelet Transform**, EURASIP Journal on Advances in Signal Processing, Volume 2010 (2010), Article ID 232616, 17 pages
26. Hongmei Liu, Xinzhi Yao and Jiwu Huang. “Semi-Fragile Zernike Moment-Based Image Watermarking for Authentication” EURASIP Journal on Advances in Signal Processing, Volume 2010 (2010), Article ID 341856, 17 pages
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PATENTSS

To have 30 authorized patents and other 20 patents pending.
