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# Jun Wang

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## PERSONAL DETAILS

I have excellent professional skills, together with a strong academic background in the field including image digital watermarking and deep learning. I now wish to use my skills and undertake further training with a view to moving into more research works about information hiding and security, especially deepfake video forensic.

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## EDUCATION

**University of Siena (UNISI)** 11/2020 - now

- Ph.D., Major in Information Science and Engineering
- *Advisor: Prof. Mauro Barni*
- Anticipated Graduation: June 2024

**Shandong Normal University (SDNU)** 09/2017 – 06/2020

- Master of Engineering, Major in Communication and Information System
- *Advisor: Wenbo Wan (Associate Professor)*

**Shandong Normal University (SDNU)** 09/2013 – 06/2017

- Bachelor of Engineering, Major in Electronic and Information Engineering

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## PUBLICATION (selected)

*Advisor: Wenbo Wan*

- Color Image Watermarking Based on Orientation Diversity and Color Complexity  
**Jun Wang**, Wenbo Wan, Xiaoxiao Li, Jiande Sun, Huaxiang Zhang  
*Expert Systems with Applications*, 140, 112868, 2020. (IF: 4.292)
- A novel attention-guided JND Model for improving robust image watermarking  
**Jun Wang**, Wenbo Wan  
*Multimedia Tools and Applications*, 79(33), 24057-24073, 2020. (IF: 2.101)
- Robust Image Watermarking Based on Two-Layer Visual Saliency-Induced JND Profile  
Wenbo Wan, **Jun Wang**, Meiling Xu, Jing Li, Jiande Sun, Huaxiang Zhang  
*IEEE Access*, 7, 39826-39841, 2019. (IF: 4.098)
- Pattern complexity-based JND estimation for quantization watermarking  
Wenbo Wan, **Jun Wang**, Jing Li, Lili Meng, Jiande Sun, Huaxiang Zhang, Ju Liu  
*Pattern Recognition Letters*, 130, 157-164, 2018. (IF: 2.810)
- Hybrid JND model-guided watermarking method for screen content images  
Wenbo Wan, **Jun Wang**, Jing Li, Jiande Sun, Huaxiang Zhang, Ju Liu  
*Multimedia Tools and Applications*, 79(7), 4907-4930, 2018. (IF: 2.101)
- Orientation-Aware Saliency Guided JND Model for Robust Image Watermarking

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Jing Li, Huaxiang Zhang, **Jun Wang**, Yifan Xiao, Wenbo Wan  
*IEEE Access*, 7, 41261-41272, 2019. (IF: 4.098)

- No-Reference Stereoscopic Image Quality Assessment Based on Visual Attention and Perception  
 Yafei Li, Feng Yang, Wenbo Wan, **Jun Wang**, Min Gao, Jia Zhang, Jiande Sun  
*IEEE Access*, 7, 46706-46716, 2019. (IF: 4.098)

## **RESEARCH EXPERIENCE**

*Advisor: Wenbo Wan*

### **DEEP WATERMARKING EXPLORATION**

04/2019 – 06/2020

- Designing robust watermarking scheme based on convolutional neural network (CNN)
- Information embedding achieved by the defined loss function and effective CNN model automatically
- Enhancing the model robust by incorporating various image processing

### **CONVENTIONAL ROBUST WATERMARKING**

09/2017 – 04/2019

- **For Natural Images** 09/2017 – 04/2019
  - Exploring effective just noticeable difference (JND) model for robust watermarking scheme
  - Incorporating robust feature that is sensitive to human beings into JND construction and applied into watermarking framework
- **For Screen Content Images (SCIs)** 02/2018 – 11/2018
  - SCIs, which consists of nature image, graphs, and text, will be the majority form of digital image
  - Embedding information according to the characteristics of pictorial and textual content separately
  - Distinguishing the image content through the difference of statistical characteristic

## **PROFESSIONAL SKILL**

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Programming and Tools: Matlab, Python (Keras, Tensorflow), Latex

## **HONORS & AWARDS**

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Excellent Postgraduate, 2018 & 2019, SDNU

The Second Prize Scholarship of Postgraduate (Top 5%-15%), 2017, SDNU

National Scholarship (Top 2%), 2019, China