



## New Trends in Image Restoration and Enhancement Workshop

Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 18<sup>th</sup> 2023

presents

# Winner Award

in

NTIRE 2023 HR NonHomogeneous Dehazing Challenge

to the Authors

JUNE 18-22, 2023

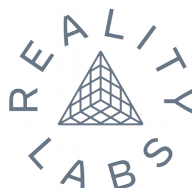
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# Han Zhou, Wei Dong, Yangyi Liu, Jun Chen

McMaster University, Canada

University of Alberta, Canada



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## New Trends in Image Restoration and Enhancement Workshop

Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 18<sup>th</sup> 2023

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# Winner Award

in

NTIRE 2023 HR NonHomogeneous Dehazing Challenge

to the Authors

**Yangyi Liu, Huan Liu, Liangyan Li,  
Zijun Wu, Jun Chen**

McMaster University, Canada



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## New Trends in Image Restoration and Enhancement Workshop

Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 18<sup>th</sup> 2023

presents

# Winner Award

in

NTIRE 2023 Challenge on  
Lens-to-Lens Bokeh Effect Transformation

to the Authors

**Xiangyu Kong, Dafeng Zhang,  
Jinlong Wu, Fan Wang**

Samsung Research China - Beijing (SRC-B)

JUNE 18-22, 2023

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# Winner Award

in

NTIRE 2023 Challenge on  
Lens-to-Lens Bokeh Effect Transformation

to the Authors

**Juewen Peng, Zhiyu Pan, Chengxin Liu, Xianrui Luo,  
Huiqiang Sun, Liao Shen, Zhiguo Cao, Ke Xian**

Huazhong University of Science and Technology  
Nanyang Technological University

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## New Trends in Image Restoration and Enhancement Workshop

Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 18<sup>th</sup> 2023

presents

# Winner Award

in

NTIRE 2023 Challenge on  
360° Omnidirectional Image Super-Resolution

to the Authors

**Xiaopeng Sun, Weiqi Li, Zhenyu Zhang, Xuhan Sheng,  
Bin Chen, Haoyu Ma, Ming Cheng, Shijie Zhao**

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## New Trends in Image Restoration and Enhancement Workshop

Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 18<sup>th</sup> 2023

presents

# Runner-Up Award

in

NTIRE 2023 Challenge on  
360° Omnidirectional Image Super-Resolution

to the Authors

## Huaibo Huang, Xiaoqiang Zhou, Yuang Ai, Ran He

MAIS&CRIPAC, Institute of Automation, Chinese Academy of Sciences;  
School of Artificial Intelligence, University of Chinese Academy of Sciences;  
University of Science and Technology of China;  
Beijing Institute of Technology;  
School of Information Science and Technology ShanghaiTech University



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## New Trends in Image Restoration and Enhancement Workshop

Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 18<sup>th</sup> 2023

presents

# Winner Award

in

NTIRE 2023 Challenge on  
360° Omnidirectional Video Super-Resolution

to the Authors

# Wanwan Cui, Tianyu Xu, Chunyang Li, Long Bao, Heng Sun

Xiaomi Inc.

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presents

# Runner-Up Award

in

NTIRE 2023 Challenge on  
360° Omnidirectional Video Super-Resolution

to the Authors

**Renlong Wu, Yi Yang, Zhilu Zhang, Shuohao Zhang,  
Junyi Li, Yunjin Chen, Dongwei Ren, Wangmeng Zuo**

Harbin Institute of Technology, China



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## New Trends in Image Restoration and Enhancement Workshop

Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 18<sup>th</sup> 2023

presents

# Winner Award

in

NTIRE 2023 Challenge on  
Quality Assessment of Video Enhancement

to the Authors

**Yilin Li, Wei Wu, Shuming Hu, Sibin Deng,  
Pengxiang Xiao, Ying Chen, Kai Li**

Department of Tao Technology, Alibaba Group



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## New Trends in Image Restoration and Enhancement Workshop

Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 18<sup>th</sup> 2023

presents

# 2<sup>nd</sup> Place Award

in

NTIRE 2023 Challenge on  
Quality Assessment of Video Enhancement

to the Authors

## Kai Zhao, Kun Yuan, Ming Sun

Kuaishou Technology

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## New Trends in Image Restoration and Enhancement Workshop

Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 18<sup>th</sup> 2023

presents

# 3<sup>rd</sup> Place Award

in

NTIRE 2023 Challenge on  
Quality Assessment of Video Enhancement

to the Authors

**Heng Cong, Hao Wang, Lingzhi Fu,  
Yusheng Zhang, Rongyu Zhang**

Interactive Entertainment Group of Netease Inc, Guangzhou, China

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## New Trends in Image Restoration and Enhancement Workshop

Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 18<sup>th</sup> 2023

presents

# Honorable Award

in

NTIRE 2023 Challenge on  
Quality Assessment of Video Enhancement

to the Authors

## Hang Shi, Qihang Xu, Longan Xiao

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## New Trends in Image Restoration and Enhancement Workshop

Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 18<sup>th</sup> 2023

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# Winner Award

in

NTIRE 2023 Challenge on Video Colorization

to the Authors

**Yixin Yang, Jinshan Pan, Zhongzheng Peng,  
Qiyang Zhang, Jiangxin Dong, Jinhui Tang**

Nanjing University of Science and Technology, China



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## New Trends in Image Restoration and Enhancement Workshop

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# Winner Award

in

NTIRE 2023 Challenge on Video Colorization

to the Authors

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**Shuai Liu, Hao Wang, Chaoyu Feng, Furui Bai,  
Yuqian Zhang, Guangqi Shao, Xiaotao Wang, Lei Lei**

Xiaomi Inc., China



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## New Trends in Image Restoration and Enhancement Workshop

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# Runner-Up Award

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NTIRE 2023 Challenge on Video Colorization

to the Authors

JUNE 18-22, 2023

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**Jinjing Li, Chichen Lin, Qipei Li, Qirong Liang,  
Ruipeng Gang, Xiaofeng Liu, Shuang Feng**

Communication University of China, Beijing 100024, China;  
Academy of Broadcasting Science, NRTA, Beijing 100866, China;  
UHDTV Research and Application Laboratory, Beijing 100176, China



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## New Trends in Image Restoration and Enhancement Workshop

Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 18<sup>th</sup> 2023

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# Winner Award

in

NTIRE 2023 Challenge on Light Field Image Super-Resolution

to the Authors

JUNE 18-22, 2023

**CVPR**



**Kai Jin, Zeqiang Wei, Angulia Yang,  
Sha Guo, Mingzhi Gao, Xiuzhuang Zhou**

Bigo Technology Pte. Ltd.

Smart Medical Innovation Lab, Beijing University of Posts and Telecommunications

Global Explorer Ltd., Suzhou China

National Engineering Research Center of Visual Technology, School of Computer Science, Peking University

School of Artificial Intelligence, Beijing University of Posts and Telecommunications



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## New Trends in Image Restoration and Enhancement Workshop

Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 18<sup>th</sup> 2023

presents

# Runner-Up Award

in

NTIRE 2023 Challenge on Light Field Image Super-Resolution

to the Authors

**Vinh Van Duong, Thuc Nguyen Huu,  
Jonghoon Yim, Byeungwoo Jeon**

Department of Electrical and Computer Engineering, Sungkyunkwan University



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## New Trends in Image Restoration and Enhancement Workshop

Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 18<sup>th</sup> 2023

presents

# Honorable Award

in

NTIRE 2023 Challenge on Light Field Image Super-Resolution

to the Authors

**Yutong Liu, Zhen Cheng, Zeyu Xiao,  
Ruikang Xu, Zhiwei Xiong**

University of Science and Technology of China



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## New Trends in Image Restoration and Enhancement Workshop

Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 18<sup>th</sup> 2023

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# Winner Award

in

NTIRE 2023 Challenge on Image Denoising

to the Authors

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**Zhijun Tu, Kunpeng Du, Hailing Wang, Hanting Chen,  
Wei Li, Xiaofei Wang, Jie Hu, Yunhe Wang**

Huawei Noah'Ark Lab  
Huawei Consumer Business Group



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## New Trends in Image Restoration and Enhancement Workshop

Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 18<sup>th</sup> 2023

presents

# Runner-Up Award

in

NTIRE 2023 Challenge on Image Denoising

to the Authors

**Xiangyu Kong, Jinlong Wu,  
Dafeng Zhang, Jianxing Zhang**

Samsung Research China - Beijing (SRC-B)

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## New Trends in Image Restoration and Enhancement Workshop

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# Honorable Award

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NTIRE 2023 Challenge on Image Denoising

to the Authors

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**Shuai Liu, Furui Bai, Chaoyu Feng, Hao Wang,  
Yuqian Zhang, Guangqi Shao, Xiaotao Wang, Lei Lei**

Xiaomi Inc., China



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## New Trends in Image Restoration and Enhancement Workshop

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# Honorable Award

in

NTIRE 2023 Challenge on Image Denoising

to the Authors

**Rongjian Xu, Zhilu Zhang, Yunjin Chen,  
Dongwei Ren, Wangmeng Zuo**

Harbin Institute of Technology, China

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## New Trends in Image Restoration and Enhancement Workshop

Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 18<sup>th</sup> 2023

presents

# Winner Award

in

NTIRE 2023 Challenge on  
Stereo Image Super-Resolution: Track 1

to the Authors

**Ming Cheng, Haoyu Ma, Qiufang Ma,  
Xiaopeng Sun, Shijie Zhao, Xuhan Sheng**

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## New Trends in Image Restoration and Enhancement Workshop

Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 18<sup>th</sup> 2023

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# Winner Award

in

NTIRE 2023 Challenge on  
Stereo Image Super-Resolution: Track 1

to the Authors

## Yukang Ding, Ming Sun, Xing Wen

Kuaishou Technology

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# Winner Award

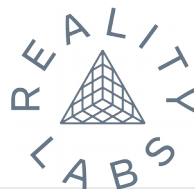
in

NTIRE 2023 Challenge on  
Stereo Image Super-Resolution: Track 1

to the Authors

## Dafeng Zhang, Jia Li, Fan Wang, Zheng Xie

Samsung Research China - Beijing



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## New Trends in Image Restoration and Enhancement Workshop

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# Winner Award

in

NTIRE 2023 Challenge on  
Stereo Image Super-Resolution: Track 2

to the Authors

## Dafeng Zhang, Jia Li, Fan Wang, Zheng Xie

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# 2<sup>nd</sup> Place Award

in

NTIRE 2023 Challenge on  
Stereo Image Super-Resolution: Track 2

to the Authors

**Zongyao He, Zidian Qiu, Zilin Pan, Zhihao Zhan,  
Xingyuan Xian, Zhi Jin**

Sun Yat-sen University, China

JUNE 18-22, 2023

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## New Trends in Image Restoration and Enhancement Workshop

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presents

# Winner Award

in

NTIRE 2023 Challenge on  
Stereo Image Super-Resolution: Track 3

to the Authors

**Kexin Zhang, Junpei Zhang, Rui Peng,  
Yanbiao Ma, Licheng Jiao**

Xidian University

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## New Trends in Image Restoration and Enhancement Workshop

Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 18<sup>th</sup> 2023

presents

# Winner Award

in

NTIRE 2023 Challenge on Efficient Super-Resolution

to the Authors

JUNE 18-22, 2023

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**Lei Yu, Xinpeng Li, Youwei Li, Qi Wu, Ting Jiang,  
Mingyan Han, Wenjie Lin, Chengzhi Jiang,  
Jinting Luo, Tong Peng, Haoqiang Fan, Shuaicheng Liu**

Megvii Technology

University of Electronic Science and Technology of China (UESTC)

MicroBT



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Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 18<sup>th</sup> 2023

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# 2<sup>nd</sup> Place Award

in

## NTIRE 2023 Challenge on Efficient Super-Resolution

to the Authors

# Yucong Wang, Minjie Cai

College of Computer Science and Electronic Engineering, Hunan University

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Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 18<sup>th</sup> 2023

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# 3<sup>rd</sup> Place Award

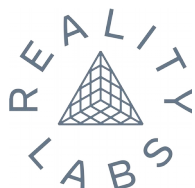
in

NTIRE 2023 Challenge on Efficient Super-Resolution

to the Authors

## Mingxi Li, Yuhang Zhang, Xianjun Fan, Yankai Sheng

AttrSense



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## New Trends in Image Restoration and Enhancement Workshop

Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 18<sup>th</sup> 2023

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# Winner Award

in

NTIRE 2023 Challenge on Efficient Super-Resolution:  
GPU Memory

to the Authors

**Magauiya Zhussip, Nikolay Kalyazin,  
Dmitry Vyal, Xueyi Zou, Youliang Yan**

Noah's Ark Lab, Huawei Technologies



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# Winner Award

in

NTIRE 2023 Challenge on Efficient Super-Resolution:  
Model Complexity

to the Authors

## Yanyu Mao, Nihao Zhang, Qian Wang

Xian University of Posts and Telecommunications, China  
National Engineering Laboratory for Cyber Event Warning and Control Technologies

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# Winner Award

in

NTIRE 2023 Challenge on Efficient Super-Resolution:  
Overall Evaluation

to the Authors

## Yan Wang, Erlin Pan, Qixuan Cai, Xinan Dai

Nankai University  
University of Electronic Science and Technology of China  
Tianjin University

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# Winner Award

in

NTIRE 2023 Challenge on  
Night Photography Rendering: People's Choice

to the Authors

**Simone Zini, Claudio Rota, Marco Buzzelli,  
Simone Bianco, Raimondo Schettini**

University of Milano - Bicocca, Italy

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NTIRE 2023 Challenge on  
Night Photography Rendering: Professional Choice

to the Authors

**Shuai Liu, Chaoyu Feng, Guangqi Shao,  
Hao Wang, Xiaotao Wang, Lei Lei**

Xiaomi Inc., China

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# Runner-Up Award

in

NTIRE 2023 Challenge on  
Night Photography Rendering

to the Authors

## Chunxia Lei, Tingniao Wang, Song Wang

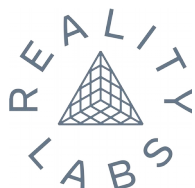
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## New Trends in Image Restoration and Enhancement Workshop

Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 18<sup>th</sup> 2023

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# Winner Award

in

NTIRE 2023 Challenge on  
Efficient Deep Models for Real-Time 4K Image Super-Resolution:

Track 1 - 1080p to 4K

JUNE 18-22, 2023



to the Authors

**Jiaming Guo, Xueyi Zou, Yuyi Chen, Yi Liu, Jia Hao, Youliang Yan**

Huawei Technologies Co., Ltd.



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## New Trends in Image Restoration and Enhancement Workshop

Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 18<sup>th</sup> 2023

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# 2<sup>nd</sup> Place Award

in

NTIRE 2023 Challenge on  
Efficient Deep Models for Real-Time 4K Image Super-Resolution:

Track 1 - 1080p to 4K

JUNE 18-22, 2023



to the Authors

## Cen Liu, Zexin Zhang, Yunbo Peng, Yue Lin

NetEase Games AI Lab



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## New Trends in Image Restoration and Enhancement Workshop

Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 18<sup>th</sup> 2023

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# 3<sup>rd</sup> Place Award

in

NTIRE 2023 Challenge on  
Efficient Deep Models for Real-Time 4K Image Super-Resolution:

Track 1 - 1080p to 4K

JUNE 18-22, 2023



to the Authors

## Yuanfan Zhang, Gen Li, Lei Sun

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## New Trends in Image Restoration and Enhancement Workshop

Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 18<sup>th</sup> 2023

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# Winner Award

in

NTIRE 2023 Challenge on  
Efficient Deep Models for Real-Time 4K Image Super-Resolution:  
Track 2 - 720p to 4K



to the Authors

## Mustafa Ayazoglu, Bahri Batuhan Bilecen

Aselsan Research, Turkey.



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# 2<sup>nd</sup> Place Award

in

NTIRE 2023 Challenge on  
Efficient Deep Models for Real-Time 4K Image Super-Resolution:  
Track 2 - 720p to 4K

JUNE 18-22, 2023



to the Authors

**Lingshun Kong, Haoran Bai, Jinshan Pan,  
Jiangxin Dong, Jinhui Tang**

Nanjing University of Science and Technology



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NTIRE 2023 Challenge on  
Efficient Deep Models for Real-Time 4K Image Super-Resolution:  
Track 2 - 720p to 4K

JUNE 18-22, 2023



to the Authors

# Cen Liu, Zexin Zhang, Yunbo Peng, Yue Lin

NetEase Games AI Lab



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## New Trends in Image Restoration and Enhancement Workshop

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# Winner Award

in

NTIRE 2023 Challenge on Image Shadow Removal

to the Authors

JUNE 18-22, 2023

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**Shuhao Cui, Junshi Huang, Shuman Tian,  
Mingyuan Fan, Jiaqi Zhang, Li Zhu, Xiaoming Wei, Xiaolin Wei**

Meituan Group.



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# Winner Award

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NTIRE 2023 Challenge on Image Shadow Removal

to the Authors

JUNE 18-22, 2023

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**Ziwei Luo, Fredrik K. Gustafsson, Zheng Zhao,  
Jens Sjoelund, Thomas B. Schoen**

Department of Information Technology, Uppsala University, Sweden



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## New Trends in Image Restoration and Enhancement Workshop

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# Winner Award

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NTIRE 2023 Challenge on  
HR Depth from Images of Specular and Transparent Surfaces  
Track 1: Stereo

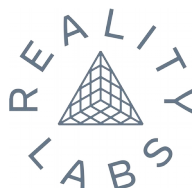
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to the Authors

# Jun Shi, Dafeng Zhang, Yong A, Yixiang Jin, Dingzhe Li

Samsung Research China - Beijing (SRC-B)



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## New Trends in Image Restoration and Enhancement Workshop

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NTIRE 2023 Challenge on  
HR Depth from Images of Specular and Transparent Surfaces  
Track 2: Mono

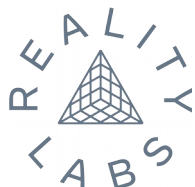
JUNE 18-22, 2023



to the Authors

**Chao Li, Zhiwen Liu, Qi Zhang, Yixing Wang**

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## New Trends in Image Restoration and Enhancement Workshop

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# Winner Award

in

NTIRE 2023 Challenge on  
Image Super-Resolution ( $\times 4$ )

to the Authors

**Junpei Zhang, Kexin Zhang, Rui Peng,  
Yanbiao Ma, Licheng Jiao**

Xidian University, China

JUNE 18-22, 2023

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## New Trends in Image Restoration and Enhancement Workshop

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# 2<sup>nd</sup> Place Award

in

NTIRE 2023 Challenge on  
Image Super-Resolution (×4)

to the Authors

JUNE 18-22, 2023

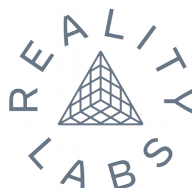
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## New Trends in Image Restoration and Enhancement Workshop

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