

A central graphic featuring a dark blue rounded rectangle with the text "Award Session" in white. This rectangle is flanked by two light gray rectangles, one on the left and one on the right, all centered horizontally.

Award Session

Learning Efficient Feature Representation for Temporal Action Localization

Chenglu Wu*, Xuefeng Yang*, Fuzhi Duan, Yanxun Yu, Yayun Wang, Jun Yin
Zhejiang Dahua Technology Co., Ltd.
Hangzhou City, Zhejiang Province, China

`duanfz@whu.edu.cn`

`{wu_chenglu, yang_xuefeng, yu_yanxun}@dahuatech.com`



Challenge and Workshop on Localized and Detailed Understanding of Human Actions in Videos

1st Place Award

in FineAction Challenge on Temporal Action Localization

is proudly presented to

**Chenglu Wu, Xuefeng Yang, Fuzhi Duan,
Yanxun Yu, Yayun Wang, Jun Yin**

Duhua Technology



南京大學
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Limin Wang



中国科学院深圳先进技术研究院
SHENZHEN INSTITUTE OF ADVANCED TECHNOLOGY
CHINESE ACADEMY OF SCIENCES

SIGNED Dr. Limin Wang
On behalf of organizers



上海人工智能实验室
Shanghai Artificial Intelligence Laboratory

Limin Wang Yali Wang Jing Shao Wei Wu Junjie Yan Yu Qiao

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Track1: 2nd Place Winner

An Empirical Study of Feature Representation for Actionness based Temporal Action Localization

Qiang Wang and Rongliang Cheng

Institute of Automation, Chinese Academy of Sciences.

qiang.wang@nlpr.ia.ac.cn, chengrongliang@hotmail.com



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Person-Context Cross Attention for Spatio-Temporal Action Detection

Zhiqing Ning^{1*} Qiaokang Xie^{2†*} Wengang Zhou² Liangwei Wang¹ Houqiang Li²

¹Huawei Noah's Ark Lab ²University of Science and Technology of China

{ningzhiqing3, wangliangwei}@huawei.com

xieqiaok@mail.ustc.edu.cn {zhwg, lihq}@ustc.edu.cn



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Liangwei Wang, Houqiang Li**

Huawei Noah's Ark Lab, University of Science and Technology of China



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Track2: 2nd Place Winner

**DeeperAction workshop at ICCV 2021:
MultiSports Challenge on Spatio-Temporal Action Detection Track
Technical Report: A Solution to Detect Key Actions in
Complicated Multi-person Scene**

Yanbin Chen, Jiangyuan Mei, Zhicai Ou, Feifei Feng and Jian Tang

AIIC vision group, Midea Group

2388 Houhai avenue, Shenzhen, Guangdong, China

{chenyb60, meijy3, zhicai.ou, feifei.feng and tangjian22}@midea.com

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AIRC vision group, Midea Group



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LCTS: Longest Continuous Temporal Sequences for Action Detection

Shaomeng Wang, Yan Song, Keke Chen, Zeyu Zhou, Rui Yan, Xiangbo Shu, Jinhui Tang

School of Computer Science and Engineering, Nanjing University of Science and Technology, China
Nanjing, China

wangshaomen@gmail.com



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3rd Place Award

in MultiSports Challenge on Spatio-Temporal Action Detection

is proudly presented to

**Shaomeng Wang, Yan Song, Keke Chen,
Zeyu Zhou, Rui Yan, Xiangbo Shu, Jinhui Tang**

Nanjing University of Science and Technology



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Kinetics-TPS Track on Part-level Action Parsing and Action Recognition Technical Report

Zheming Yu, Lin Li, Jietian Guo

Hikvision Research Institute

{yuzheming, lilin37, Guojietian}@hikvision.com

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A Baseline Framework for Part-level Action Parsing and Action Recognition

2nd place solution for Kinetics-TPS Track in ICCV DeeperAction Workshop 2021

Xiaodong Chen^{1*} Xincheng Liu² Kun Liu² Wu Liu² Tao Mei²

¹University of Science and Technology of China, Hefei, China

²JD AI Research, Beijing, China

`cxdl230@mail.ustc.edu.cn, liuxinchen1@jd.com, liu_kun@bupt.edu.cn, liuwu@live.cn, tmei@live.com`



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Challenge and Workshop on Localized and Detailed Understanding of Human Actions in Videos

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in Kinetics-TPS Challenge on Part-level Action Parsing

is proudly presented to

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Wu Liu, Tao Mei**

University of Science and Technology of China, JD AI Research



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Technical Report: Disentangled Action Parsing Networks for Accurate Part-level Action Parsing

Xuanhan Wang¹ Xiaojia Chen¹ Lianli Gao¹ Lechao Cheng² Jingkuan Song¹

¹ Center for Future Media, University of Electronic Science and Technology of China, Chengdu, China

² Zhejiang Lab, Hangzhou, China

wxuanhan@hotmail.com, josonchan1998@163.com, lianli.gao@uestc.edu.cn

chenglc@zhejianglab.com, jingkuan.song@gmail.com



之江实验室
ZHEJIANG LAB

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University of Electronic Science and Technology of China, Zhejiang Lab



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Discussion Forward

- ☐ **Fine-grained classes**
- ☐ **Multi-label confusion**
- ☐ **Occlusion & localization difficulty**
- ☐ **Context and interaction object**

- ☐ **Action is relatively high-level and complex concept**
- ☐ **More dense annotations for detailed understanding**
- ☐ **More context reasoning with knowledge**
- ☐ **Combine CV & NLP**

Over & Thank you !



Homepage: <https://deeperaction.github.io>