

# **2024 IEEE International Conference on Computational Photography (ICCP 2024)**

**Lausanne, Switzerland  
22-24 July 2024**



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# Program

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## DAY 1 (Monday, July 22<sup>nd</sup>)

### Opening Remarks — 09:00

### Keynote — 09:30

Davide Scaramuzza  
*Event Cameras, a New Way of Sensing*

### Coffee break — 10:30

### Invited Talk — 11:00

Amir Zamir  
*Multimodal Foundation Models*

### Session A: Neural Implicit/Radiance Fields — 11:30

NeMF: Neural Microphysics Fields.....N/A  
*Inbal Kom Betzer (Technion)\*; Roi Ronen (Technion); Vadim Holodovsky (Technion); Schechner Yoav (Technion); Ilan Koren (Weizmann Inst. of Science)*  
**PAMI Special Issue DOI:** papers/tpami/014.pdf

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**PAMI Special Issue DOI:** papers/tpami/041.pdf

### Lunch; Affinity Group Meetings — 12:30

## **Invited Talk — 14:00**

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*Aryan Garg (IIT Madras)\*; Raghav Mallampalli (Microsoft India Pvt. Ltd.); Akshat Joshi (IIT Madras); Shrisudhan Govindarajan (Simon Fraser University); Kaushik Mitra (IIT Madras)*

## **Invited Talk — 15:15**

Emma Alexander  
*Reverse-Engineering Evolved Camera*

## **Spotlight Session A — 15:45**

## **Coffee Break — 16:00**

## **Poster and Demo Session A — 16:30**

## **Outreach — 18:00**

## **Community Drink — 18:30**

## DAY 2 (Tuesday, July 23<sup>rd</sup>)

### Keynote — 09:00

Jannick Rolland

*Augmented and Virtual Reality: Shaping Tomorrow's World*

### Coffee break — 10:00

### Invited Talk — 10:30

Fei Xia

*AI-Enhanced Volumetric Optical Microscopy for Faster Imaging in Living Tissues*

### Session C: 3D — 11:00

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*Siyuan Shen (ShanghaiTech University)\*; Suan Xia (ShanghaiTech University); Xingyue Peng (ShanghaiTech University); Ziyu Wang (ShanghaiTech University); Yingsheng Zhu (ShanghaiTech University); Shiyong Li (ShanghaiTech University); Jingyi Yu (Shanghai Tech University)*

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### Invited Talk — 12:00

Jiamin Wu

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### Lunch; Industry Consortium lunch — 12:30

## **Invited Talk — 14:00**

Alexandre Alahi

*7 Foundational Principles to Learn Representations*

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*Ke Li (ETH Zurich); Dengxin Dai (Huawei Zurich)\*; Luc Van Gool (ETH Zurich)*

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## **Spotlight Session B — 15:30**

## **Coffee Break — 15:40**

## **Poster and demo Session B — 16:00**

## **Open visit of the Olympic Museum — 18:00**

## **Drinks on the terrace of the Olympic Museum — 19:00**

## **Reception at the Olympic Museum restaurant — 20:00**

## **DAY 3 (Wednesday, July 24<sup>th</sup>)**

### **Keynote — 09:00**

Imaging with scattered light: wavefront shaping for fluorescence imaging in complex media  
*Sylvain Gigan*

### **Coffee Break — 10:00**

### **Invited Talk — 10:30**

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*Ivo Ihrke*

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*Guangyuan Zhao (CUHK)\*; Xin Shu (the Chinese University of Hong Kong); Renjie Zhou (The Chinese University of Hong Kong)*

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### **Invited Talk — 11:45**

Nothing Lasts Forever: Harnessing Ephemeral Signals for Dynamic Perception  
*Mark Sheinin*

### **Closing remarks and Award ceremony — 12:15**

### **Lunch / Committee Lunch / End of the Conference — 12:45**