

#### **Tutorial**



# Recent Advances and Challenges in Facial Micro-Expression Analysis Data Annotation

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#### ME annotation is very laborious and time-consuming

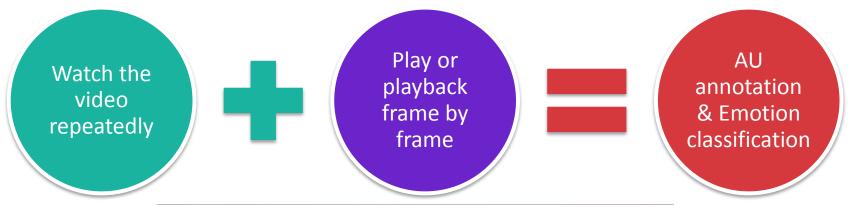
- Brief, subtle local facial movement
- → hard to be detected in the video with naked human eyes.
- The coder needs to <u>be professionally</u> <u>trained</u> and the coding process requires <u>at least two coders</u> for a reliable result control.

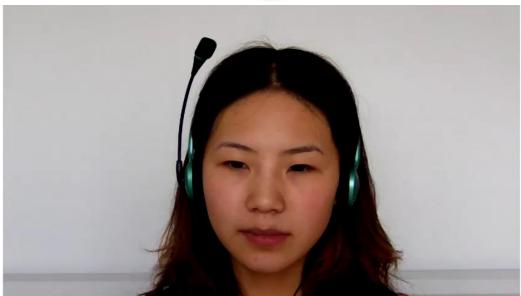






#### ME annotation is very laborious and time-consuming





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## Micro-expression coding and sharing system - Our goal

- Multiplayer online coding, which breaks through the limitations of time and space.
- Efficiently collect more accurately coded micro expression data:
  - Scientific researchers: be able to organize and code large amounts of micro-expression data
  - Coding amateurs: provide a platform for communication and cooperation



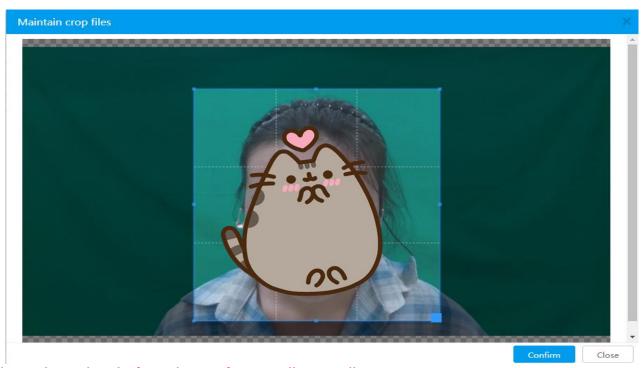
#### Micro-expression coding and sharing system (mecss.psych.ac.cn)



CASME database Introduction



 Upload and pre-process for video samples to be coded

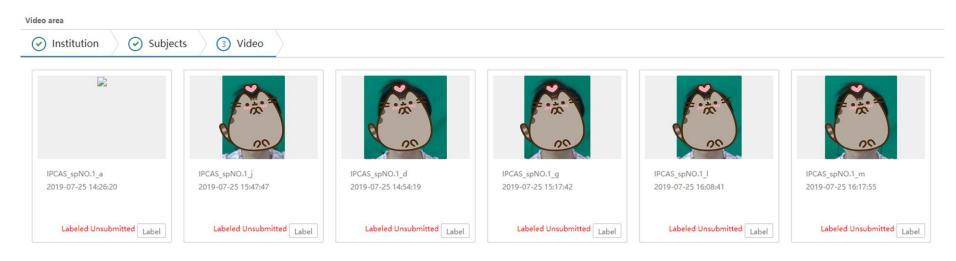


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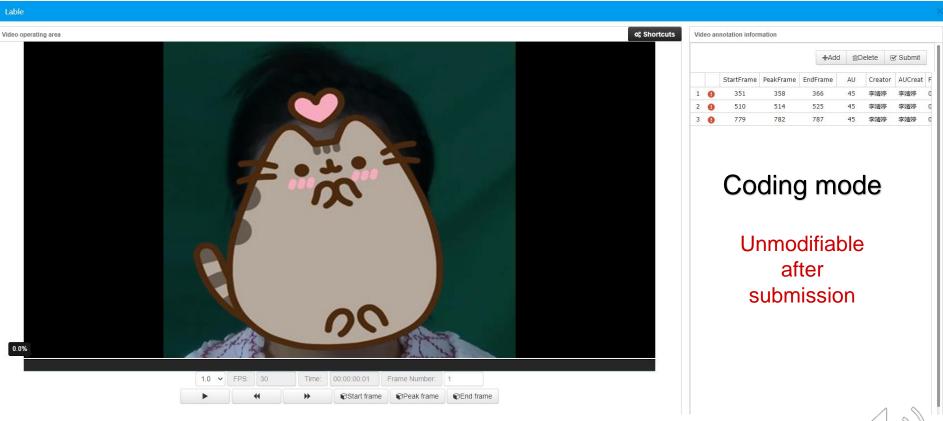
#### Multiplayer online coding



The second function is the multiplayer online coding. Here are some videos sequences which have been uploaded on the website. The coding amateurs could choose one video and begin the coding process.



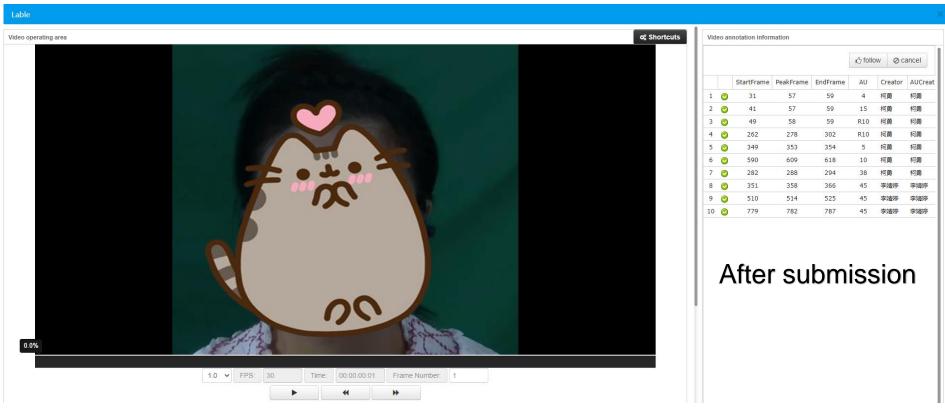
Multiplayer online coding



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Multiplayer online coding



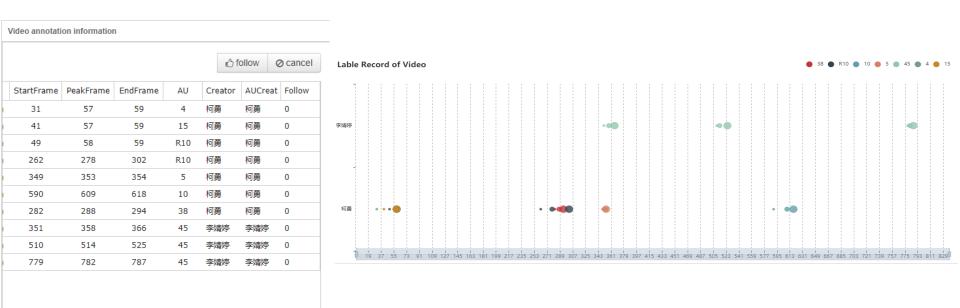
And here is the coding interface after submission. the AU annotation by other coders are also listed at the right side.

Su-Jing Wang, MELAB, Institute of Psychology, Chinese Academy of Sciences





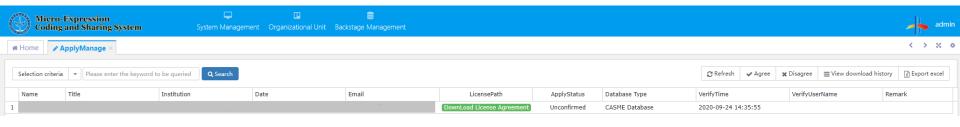
Coding result analysis and comparison





## Micro-expression coding and sharing system (mecss.psych.ac.cn) - Additional function

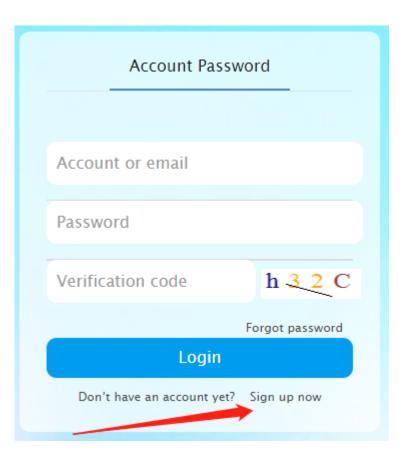
 Links to application forms of public CAS series microexpression databases







## Micro-expression coding and sharing system (mecss.psych.ac.cn) - How to sign up





- Contact us (lijt@psych.ac.cn) directly with following info:
  - Username
  - Code
  - Organization /institution
  - Role (Coder / Uploader)
  - Name
  - Email address





## Thanks for your attention!

Any questions?

