Prof. Pierre Dillenbourg

Rolex Learning Center

CHILI
Human Computer Interaction in Learning & Instruction
Dual Eye Tracking
DUET - Dual Eye-Tracking
Pair programming experiment

Low gaze recurrence

High gaze recurrence

P. Jermann, M.-A. Nüssli & P. Dillenbourg
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Supported by the Swiss National Science Foundation
(grants #K-12K1-117909 and #P200P_126611)
EPFL MOOCs

1,800,000

“Online education never sleeps”
Is this hand useful?

Kshitij Sharma, Patrick Jermann, Pierre Dillenbourg

EPFL Center for Digital Education
Eye tracking experiment on MOOC Video

Following teacher’s references

Gaze of students’ watching Scala course by Prof. Martin Odersky (EPFL, Switzerland)

K. Sharma, P. Jermann, P. Dillenbourg
@ CHILI – http://chili.epfl.ch
 Supported by the Swiss National Science Foundation
(Grants CR1211_132996 and PZ00P2_126611)
« withmeness »

Kshitij Sharma, Patrick Jermann, Pierre Dillenbourg
EPFL Center for Digital Education
Cellulo

Ayberk Ozgur, Wafa Johal, Francesco Mondada; Ehsan Karim. Pierre Dillenbourg
Cellulo (Ayberk Ozgur, Wafa Johal)
Swarm Cellulo (Ayberk Ozgur, Wafa Johal)
ANIMATAS – International Training Network EU Project
https://chili.epfl.ch/animatas

15 PhD positions EU

3 positions @CHILI Lab EPFL
Automatic assessment of engagement during multi-party interactions

Teacher orchestration of child-robot interaction

Which mutual-modelling mechanisms to optimize child-robot interaction
Augmented Reality for Training Carpenters (L. Lucignano)
Epidemiology of Training Needs
Bayesian Knowledge Tracing

$p(K_t = \text{'understand'} \mid B_t = \text{'nods'})$

$p(K_{t+1} \mid B_{t+1}, K_t)$
Computational Biology
Computational Linguistics
Computational Sociology
Computational Education
Positions in CHILI @ Rolex

1 PhD Epidemiology of training needs (me + B. West)
3 PhD Human-Robot Interaction