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2. Sign in: (with your account created under 1.)
3. Click **Module 2: AI in Education**

NB:

All 5 modules are worth following!

INTRODUCTION



Agnes Surry

Deputy Head of Capacity Building
Asian Development Bank Institute



Shu Tian

Principal Economist
Asian Development Bank

MODULE 1: AI Technology



Maarten Lamers, PhD

Computer Scientist
Leiden University

MODULE 3: AI and Cybersecurity



Olga Gadyatskaya, PhD

Associate Professor
Leiden University

MODULE 2: AI in Education



Marc Cleiren, PhD

Associate Professor
Leiden University

MODULE 4: AI, Diversity and Inclus



Bart Barendregt, PhD

Anthropologist
Leiden University



Ingrid Samset, PhD

Assistant Professor
Leiden University

MODULE 5: AI in the Workplace



Carlotta Rigotti, PhD

Assistant Professor
Leiden University



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Seizing the Full Potential of AI

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Course Information

Title

Seizing the Full Potential of AI



**Universiteit
Leiden**
The Netherlands



AI in Education

Leiden University is in the forefront of the worldwide development of Artificial Intelligence in education & research. We explored and discovered psychoneurological aspects leading to understanding why AI has a massive impact on humans and society.

In collaboration with the *Asian Development Bank Institute*, Leiden University has created a *state-of-the art* online E-learning, that empowers teachers and learners to stay in the *lead* for education and human development: *collaborating* with AI, rather than merely being a human in the loop.

Our scientific approach will empower teachers as well as governing bodies to keep humans in the *lead* in a time where AI capabilities accelerate.

Enjoy the experiential insights we gained on AI and education over the past years!

Sign up and learn for free! <https://elearning-adbi.org/courses/seizing-the-full-potential-of-ai/>

Kindest,
Ingrid Samset (FGGA) and Marc Cleiren (FSW)

Module A: Human Ways of Relating to AI

Psychosocial and motivational aspects of human interaction with AI

SEIZING THE FULL POTENTIAL OF AI

AI in Education

es addressed in Module A

Human Ways of Relating to AI

Module duration: 45 minutes
Learning mode: Self-paced

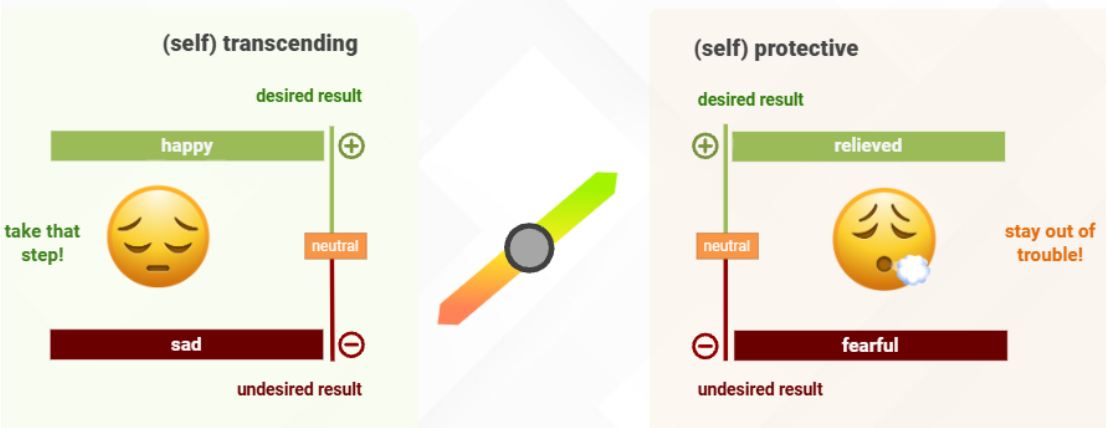
Presenters:

Marc Cleiren, PhD
Associate Professor
Leiden University

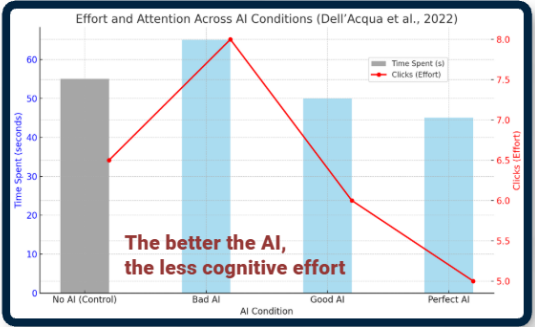


Ingrid Samset, PhD
Assistant Professor
Leiden University





Falling asleep at the wheel



Themes addressed in Module A: Human Ways of Relating to AI

- 1**
AI's psychological impact: understanding how AI interacts with human motivational systems
- 2**
Human-AI Collaboration skills: how to develop Human-AI Collaboration (HAIC) as a core competency



Module B: A New Pedagogy for the Age of AI

Theoretical background & results of 3 UL pilots



Pedagogical Artificial Intelligence Assistants

PAIAs are purpose driven, course embedded assistants that scaffold individual learning processes with the goal to foster and maintain student autonomy, competence, and relatedness, countering dependency-driven, merely output-oriented AI use.

Creating PAIAs

Pedagogical Artificial Intelligence Assistants



LUCA

Leiden University
Cognitive Agent



Julian van der Kraats

SDT Aspect

Autonomy

Promotes agency by offering **personalized, manageable steps to learning**. Poses strategic questions that do not coerce the student's decision, ensuring the student retains ownership of the revision process.

Competence

Focuses on guiding the **process** (understanding, inquiry, reflection) rather than perfect output. Provides "cognitive friction" by scaffolding tasks, enhancing critical thinking and self-efficacy.

Relatedness

Designed to honour and further relatedness. The process emphasizes the necessity of human dialogue (in "AI-free" meetings) and to root ideas alongside engaging AI.

PAIA Support (fostering human learning)

General-Purpose AI (potentially undermining learning)

Risks **dependency** and "cognitive offloading" by unguided AI use.

Incites **control by being output oriented**. Risks undermining human critical thinking skills and self-confidence as intellectually capable beings.

Risks **social alienation / isolation** by sidestepping contextual and interactive learning situations



Danny Liu