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DESIGN 27/12/2025

BY SHENG-HUNG LEE In an era of AI, the question is no longer how fast designers can work, but what kind of design education we are cooking. 9 in X ···

From fast food to fine dining: what kind of design education are we cooking?

Find Out \rightarrow Gartner.

Gartner is the world authority on

Al strategy

How do you

ROI on AI?

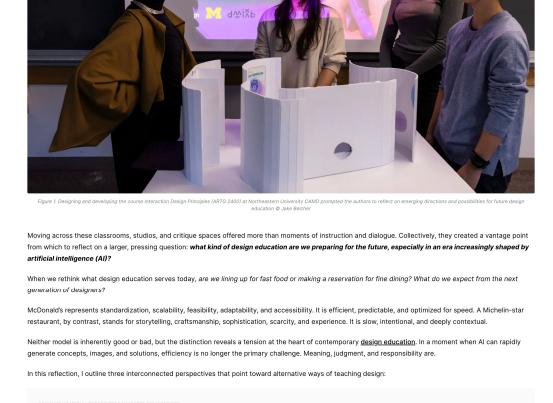
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teraction Design Principles

graduate program at the University of Illinois Urbana-Champaign (UIUC).



1. Perspectives 1. Reframing the mindset from "learning" to "unlearning" 2. Perspectives 2. Extending Human-Centered Design (HCD) toward HCD+

3. Perspectives 3. Shifting from "DESIGN" as a discipline to "design" as a situated, everyday practice

better equipping designers to navigate complexity, uncertainty, and their evolving role in the age of Al.

Perspectives 1. Reframing the mindset from "learning" to "unlearning"

Much of the current discourse across articles, research, and case studies focuses on what Al can do for designers. Integrated into conventional design processes, generative AI enables designers and students to rapidly produce ideas, concepts, and visualizations. Tools now span text-to-image generation (e.g., Midjourney, DALL-E, Stable Diffusion), writing support (e.g., ChatGPT, Jasper), UI/UX design (e.g., Uizard, Figma

Al), and marketing graphics (e.g., Microsoft Designer, Canva), accelerating ideation, improving efficiency, and transforming simple prompts into complex design

Prompt-based interfaces, in particular, have dramatically lowered the learning curve of design work, especially in stages such as ideation, CAD modeling, and

With the rise of generative AI tools, our understanding of what it means to "learn" design has fundamentally shifted. The time and effort traditionally required to

As a result, design capabilities have become more accessible, scalable, and widely distributed. However, the more critical question is no longer what designers

Unlearning, in this context, does not imply discarding knowledge. Rather, it introduces flexibility and resilience by prompting a re-examination of which forms of

Together, these three perspectives suggest how design education might move beyond speed and scale—toward depth, interpretation, and long-term impact—

Historically, designers were expected to memorize professional terminology, master specific software, and adhere to rigid manufacturing protocols. A mindset of unlearning shifts the emphasis away from accumulation and toward internalization.

knowledge truly matter for designers, for design education, and for the design process itself

Perspectives 2. Extending Human-Centered Design (HCD) toward HCD+

need to learn, but what they need to unlearn.

experiences rather than merely producing physical artifacts.

broader social, ecological, and systemic contexts.

train designers or students to master software, tools, and technical skills has been significantly reduced.

A notion of unlearning asks designers to deepen their lived experiences, critically reflect on what they have already learned, and translate that knowledge into insights that can be meaningfully articulated and shared in more accessible ways Unlearning does not impose a higher cognitive burden than learning. On the contrary, it redirects designers' expertise toward curating human-centered

Unlearning is not a loss of expertise; it is a reorientation of expertise toward judgment, interpretation, and sense-making within an Al-augmented design >> Reflection 1. Unlearning is less about adding ingredients, and more about rethinking the recipe.

Yet, despite its strengths, HCD also reveals important constraints, particularly when we consider how design processes and outcomes scale, and what kinds of In Don Norman recent book Design for a Better World: Meaningful, Sustainable, Humanity-Centered (2023), he articulates a pivotal shift from Human-Centered Design (HCD) toward what he calls Humanity-Centered Design, or HCD+.

Through five guiding principles and a series of case studies, Norman reframes design not merely as a response to individual user needs, but as a responsibility to

Historically, our understanding of HCD emerged in the 1980s, closely aligned with the rise of industrialization and mass production. Designers were expected to create tailored solutions for users while optimizing standardized processes: balancing human factors, manufacturing costs, marketing demands, business value, distribution strategies, and short-term outcomes (Norman, 2023, pp. 17, 84). Within this paradigm, success was often measured by efficiency, usability, and

HCD+, by contrast, expands the scope of care. It asks designers to consider not only people, but all living beings and the interconnected systems that sustain them. While short-term results and industrial constraints still matter, the emphasis shifts toward long-term goals, life-centered values, and positive societal impact

Human-Centered Design (HCD) has long served as a powerful and necessary foundation for addressing design challenges. It remains a dominant norm across

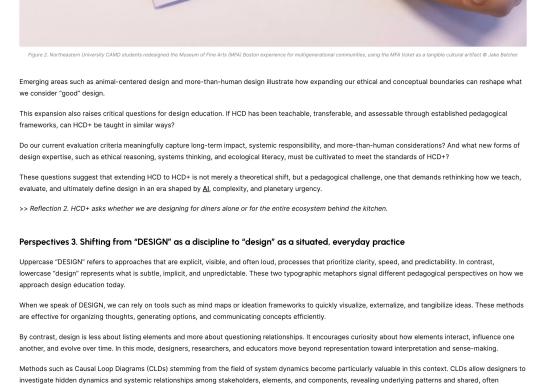
design education and practice, offering structured ways to understand users, articulate needs, and translate insights into solutions.

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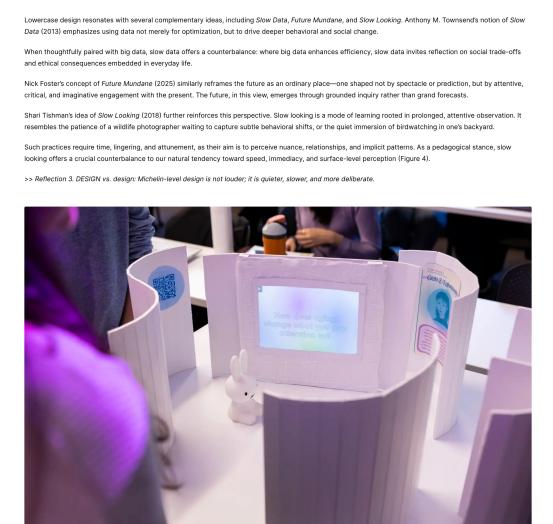
(Norman, 2023, pp. 83, 183, 299). Design, in this sense, becomes a form of stewardship concerned with sustainability, ethics, and collective well-being. HCD+ is inherently more inclusive and adaptive. At times, it even requires designers to move beyond strictly human perspectives. Can we extend empathy to non-



100

ideation

unarticulated, human needs. Through this lens, design shifts from producing artifacts to understanding systems, interdependencies, and long-term implications



This perspective article argues that design education is at a crossroads. In an era where Al can accelerate ideation, visualization, and production, the central

By reframing learning as unlearning, extending Human-Centered Design (HCD) toward HCD+, and shifting from "DESIGN" as a discipline to "design" as an

Rather than training designers to produce faster, more predictable outcomes, the future of design education lies in cultivating interpretation, ethical sensitivity,

The future of design education may not lie in choosing between McDonald's or Michelin, but in deciding when speed serves us, and when slowness is essential. In this sense, the goal is not to reject speed or technology, but to ensure that, in the age of AI, design education continues to nourish depth, care, and lasting

The metaphor of McDonald's versus Michelin reveals a deeper tension between scalable, standardized "DESIGN" and slow, situated "design"—between speed and

Figure 3. Northeastern University CAMD students using CLDs to analyze field data gathered in Boston's Seaport District, MA, USA 🕲 Sheng-Hung Lee

Conclusion: Designing education beyond speed and scale

 $\bullet \ \ \textit{Reflection 1. Unlearning is less about adding ingredients, and more about rethinking the recipe.}\\$

everyday, relational practice, the article calls for a recalibration of what we value in design education.

• Reflection 2. HCD+ asks whether we are designing for diners alone or for the entire ecosystem behind the kitchen. • Reflection 3. DESIGN vs. design: Michelin-level design is not louder; it is quieter, slower, and more deliberate.

judgment, output and responsibility. Three reflections emerge:

challenge is no longer efficiency but meaning.

systems thinking, and long-term imagination.

positive social impact.

USEFUL LINKS Sheng-Hung Lee ABOUT THE AUTHOR

Reference

TAGS

Sheng-Hung Lee is an Assistant Professor of Urban Technology at the University of Michigan and Director of the d-mix lab. Trained in both design and engineering, his work explores how technology and human-centered design can shape more equitable and longevity-ready societies

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