Education Review
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June 3, 2026 ISSN 1094-5296

Horvath, J. C. (2025). *The digital delusion: How classroom technology harms our kids' learning—and how to help them thrive again.* Simon & Schuster.

360 pp. **ISBN: 979-8218880378**

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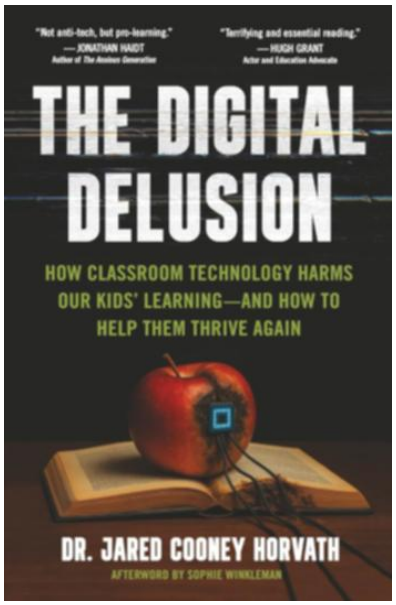

Jared Cooney Horvath's book stands as a provocative and necessary intervention in the often breathless discourse surrounding educational digitization. In an era when schools and universities are pouring vast amounts of capital into an ecosystem of laptops, tablets, and AI-driven platforms, the prevailing institutional wisdom is that technology is a primary engine of progress. However, Horvath approaches this consensus with the cold eye of a scientist. Writing as a cognitive neuroscientist, he moves past the marketing hype to evaluate these tools through the rigorous lenses of attention, memory, and cognitive load. He poses a fundamental question that many administrators have preferred to ignore: Do these digital interventions truly facilitate deep, conceptual understanding, or do they merely provide a high-tech veneer for superficial participation?

A defining strength of the book lies in its clinical deconstruction of the assumptions that drive modern ed-tech. Horvath argues that the adoption of classroom technology has occurred at a frantic pace, far outstripping the scientific evidence required to justify its use. This observation aligns with broader scholarly concerns that digital innovation in education is often implemented as a reactionary measure rather than a pedagogical one (Selwyn, 2016). By positioning himself as "pro-learning" rather than "anti-technology," Horvath avoids the trap of coming off looking like a Luddite. Instead, he advocates a disciplined selectivity, echoing the long-standing educational principle that the medium itself is merely a delivery vehicle, it is the instructional design, not the device, that dictates the quality of learning (Clark, 1983).

Madani Civi M. (2026, June 3). Review of *The digital delusion: How classroom technology harms our kids' learning—and how to help them thrive again,* by J. C. Horvath. *Education Review, 33.* https://doi.org/10.14507/er.v33.4627

Horvath further challenges the pervasive cultural narrative that traditional, "analog" education systems are inherently obsolete relics that must be discarded. He digs into long-term trends in achievement to show that educational success remains primarily rooted in the quality of the teacher-student relationship and instructional clarity. His skepticism of the "digital revolution" as a panacea mirrors historical critiques that have pointed out how computers are consistently "oversold" to the public while remaining "underused" as effective cognitive enhancing tools (Cuban, 2001). For Horvath, the infrastructure of the classroom is secondary to the cognitive activity taking place within the student's mind. This is particularly relevant for educators who find that tactile methods, e.g., physical books and handwritten notes, often yield a deeper connection to the material than their digital counterparts.

One of the book's most impactful arguments focuses on the seductive but misleading relationship between engagement and actual learning. It is undeniable that digital tools can make a lesson plan feel more dynamic and interactive, but Horvath provides a vital warning. *Visible activity is not a reliable proxy for mental processing*. Cognitive science suggests that learning occurs best when mental resources are focused on essential content rather than the "extraneous" noise of a flashier interface. This reflects the core of multimedia learning theory, which posits that digital environments only yield results when they respect the brain's limited processing capacity (Mayer, 2009). Horvath encourages educators to look beyond the surface level of a "busy" classroom to ask if conceptual change is truly occurring.

The Digital Delusion also directs a critical eye toward the "personalized learning" movement. Many platforms promise to revolutionize education by using algorithms to tailor content to individual "learning styles." However, Horvath notes that the evidence for such styles is remarkably thin. On the contrary, effective instruction for new or complex material requires a structured, guided approach. This reinforces a significant body of research suggesting that "minimally guided" or purely discovery-based digital environments often leave students confused and overwhelmed, particularly compared to the success seen in well-organized, teacher-led instruction (Kirschner et al., 2006).

Beyond individual tools, Horvath questions the shift toward autonomous digital exploration. While modern pedagogy often celebrates the student working independently with online resources, the author argues that this lack of scaffolding can be detrimental. Without the expert guidance of a teacher to help organize knowledge and filter out digital distractions, students are frequently lost in a sea of information. Horvath reasserts that technology should serve to amplify the teacher's expertise, not replace it. This theme extends to his cautious view of artificial intelligence (AI). While AI might assist with rote practice and repetition, it lacks the "interpretive flexibility" and the ability to read a room, sense frustration, and pivot a lesson that defines a skilled human educator.

A particularly persuasive element of *The Digital Delusion* is Horvath's synthesis of international data. By referencing large-scale studies like PISA and TIMSS, he shows that countries with the highest levels of classroom technology usage do not necessarily see a corresponding jump in academic performance. In fact, the data often suggest the opposite. These findings force a reconsideration of the "more is better" approach to digital access. Instead of assuming that another tablet in every

hand will close the achievement gap, Horvath suggests the relationship between technology and achievement is fraught with complexities that require careful, human-centered navigation.

Horvath concludes by urging higher education institutions to redefine how they measure innovation. If a university measures success by the number of digital tools implemented rather than the depth of student understanding, it has fallen for the "digital delusion." He argues for a shift in care, moving away from a focus on technological novelty toward a focus on cognitive results. This involves recognizing that the human brain has not changed significantly in thousands of years, and the fundamental ways we acquire knowledge through focus, repetition, and social interaction, remain constant regardless of the latest software update.

While the book is an exceptionally strong critique, it is not without its limitations. Horvath focuses primarily on ubiquitous hardware like laptops and tablets, leaving some readers to wonder if emerging, more immersive technologies might offer different cognitive outcomes. Additionally, while international data provide a broad picture, they cannot account for the myriad social and cultural variables that influence every individual classroom. Nevertheless, the book remains a cornerstone of contemporary educational debate. By prioritizing the biology of the learner over the allure of the machine, Horvath offers a vital framework for any educator looking to foster genuine, durable knowledge in a digital age.

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About the Reviewer

Manouchehr Madani Civi, MD, MHSc, MET, is an accomplished physician and educator with more than two decades of experience in university-level teaching and academic mentorship. Currently a Lecturer at the University of British Columbia (UBC), he plays a vital role in the MD Undergraduate Program. His work primarily involves small-group instruction, Case-Based Learning (CBL) facilitation, and the supervision of FLEX scholarly projects. Through these roles, he

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About the Author

Jared Cooney Horvath, PhD, is a neuroscientist, educator, and author who specializes in human learning and brain development. He is the creator of The Learning Blueprint, an international award-winning program helping educators and students understand how learning actually works. Jared has conducted research and taught at Harvard University, Harvard Medical School, and the University of Melbourne, and has worked with more than 1,000 schools around the world. His work has appeared in *The New Yorker*, *The Atlantic*, *The Economist*, *Harvard Business Review*, and PBS's NOVA. He currently serves as Director of LME Global, an organization dedicated to bringing cutting-edge brain and behavioral science to educators, students, and communities.

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