

Requirements Engineering for the Development of Disruptive Systems Engineering Innovations



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Introduction and Setting

VHS Cassette



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[1] https://en.wikipedia.org/wiki/Videotape_format_war#/media/File:VHS_vs_Betamax_size.jpg

Betamax Cassette

[1]



Introduction and Setting

Betamax versus VHS Models Available per Year



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[2] https://www.digital-scrapbooking-storage.com/beta-tapes.html



Introduction and Setting



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[3] https://www.cnbc.com/2019/11/08/the-death-of-the-dvd-why-sales-dropped-more-than-86percent-in-13-years.html



Previous Work and Foundation

Impact Assessment and Simulation

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[4] C. M. Christensen, The Innovator's Dilemma. Cambridge, MA: Harvard Business School Press, 2013.

- **Innovator's Dilemma**_[4]
- ⇒ Displace Incumbent Technologies in Market

Mathematical Modeling Tipping Point Including Resilience Index



Previous Work and Foundation





Continuation and Adaptation





Technology Potential Drivers and Influences



Underlying Dynamics







Concept and Process









Possibilities and Opportunities

Potential Adjustment





Consideration

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Conclusion and Outlook

- **Applicability Tests Successful**
- 2 Case Study Tests Are Currently Being Conducted
- Transfer to Other Areas and Domains Under Evaluation 3
- 4

Ultimate Goal: Quantified Inclusion in Decision Making Process



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