

Interaction Design as an Interdisciplinary Research Mindset

Author: Stefan Wölwer

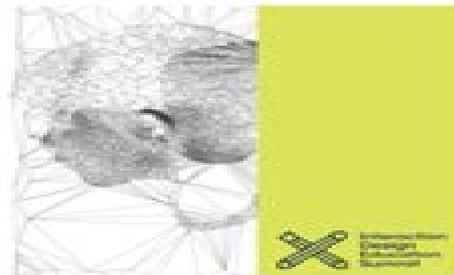
(Script and slides of the talk by invitation held at the Interaction Design Education Summit 23 in Zurich, Switzerland, on the 25th of February 2023)

Interaction Design as an Interdisciplinary Research Mindset

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HAWK University of Applied Sciences and Arts, Winterthur

HAWK

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Slide 1: Interaction Design as an Interdisciplinary Research Mindset

Hello everyone, thanks a lot for inviting me to this summit. I've been really looking forward to it and it's great to be here meeting all of you. My talk is about Interaction Design as an interdisciplinary research mindset, a topic I am very interested in as I have been working in this field for quite some time now. So please allow me to share my position on what interaction design is all about.

Interaction Design is about designing the parameters which frame the interactions between us, space and things.



Slide 2: Interaction Design is about designing the parameters which frame the interactions between us, space and things.

Interaction design is about designing the parameters that frame the interactions between us, space and things. A game of chess helps to illustrate what I mean. First of all, we can't design the interactions between the players in detail. It's all based on their knowledge, experiences and skills. We may have an idea of how they will play, but at the end of the day it's not possible to predict the outcome. What we can do is design the artefacts, rules and mental models needed to play a game of chess. First there are the chess pieces. Here we can shape the figures in great detail, as it is of course important to distinguish between the queen and the king. As well as basic recognisability, we can also consider aesthetic qualities for these pieces. In other words, the chess pieces represent the products in interaction design.

Interdisciplinary Interaction Design Pdf

**Sebastiano Bagnara, Gillian Crampton
Smith**



Interdisciplinary Interaction Design Pdf:

Interdisciplinary Interaction Design James Pannafino,2018-02 **Interdisciplinary Interaction Design** James Pannafino,2012 Interaction design has many dimensions to it It addresses how people deal with words read images explore physical space think about time and motion and how actions and responses affect human behavior Various disciplines make up interaction design such as industrial design cognitive psychology user interface design and many others It is my hope that this book is a starting point for creating a visual language to enhance the understanding of interdisciplinary theories within interaction design The book uses concise descriptions visual metaphors and comparative diagrams to explain each term s meaning Many ideas in this book are based on timeless principles that will function in varying contexts Provided by author

Interactive Media: The Semiotics of Embodied Interaction Shaleph O'Neill,2008-09-18 The author discusses the existing theoretical approaches of semiotically informed research in HCI what is useful and the limitations He proposes a radical rethink to this approach through a re evaluation of important semiotic concepts and applied semiotic methods Using a semiotic model of interaction he explores this concept through several studies that help to develop his argument He concludes that this semiotics of interaction is more appropriate than other versions because it focuses on the characteristics of interactive media as they are experienced and the way in which users make sense of them rather than thinking about interface design or usability issues [Bridging Disciplines in the Brain, Behavioral, and Clinical Sciences](#) Institute of Medicine,Division of Neuroscience and Behavioral Health,Committee on Building Bridges in the Brain, Behavioral, and Clinical Sciences,2000-08-24 Interdisciplinary research is a cooperative effort by a team of investigators each an expert in the use of different methods and concepts who have joined in an organized program to attack a challenging problem Each investigator is responsible for the research in their area of discipline that applies to the problem but together the investigators are responsible for the final product The need for interdisciplinary training activities has been detailed over the last 25 years in both public and private reports The history of science and technology has even shown the important advances that arose from interdisciplinary research including plate tectonics which brought together geologists oceanographers paleomagnetists seismologists and geophysicists to advance the ability to forecast earthquakes and volcanic eruptions In recognition of this the need to train scientists who can address the highly complex problems that challenge us today and fully use new knowledge and technology and the fact that cooperative efforts have proved difficult the National Institute of Mental Health NIMH the National Institutes of Health NIH Office of Behavioral and Social Sciences Research OBSSR the National Institute on Nursing Research NINR and the National Institute on Aging NIA requested that an Institute of Medicine IOM Committee be created to complete several tasks including examining the needs and strategies for interdisciplinary training in the brain behavioral social and clinical sciences defining necessary components of true interdisciplinary training in these areas and reviewing current educational and training programs to identify elements of

model programs that best facilitate interdisciplinary training Bridging Disciplines in the Brain Behavioral and Clinical Sciences provides the conclusions and recommendations of this committee Due to evaluations of the success of interdisciplinary training programs are scarce the committee could not specify the necessary components or identify the elements that best facilitate interdisciplinary training However after reviewing existing programs and consulting with experts the committee identified approaches likely to be successful in providing direction for interdisciplinary endeavors at various career stages This report also includes interviews training programs and workshop agendas used

iCEER2014-McMaster Digest Mohamed Bakr,Ahmed Elsharabasy,2014-11-18 International Conference on Engineering Education and Research Toward Sustainability National Research Council,Board on Science and Technology for International Development,Board on Agriculture,Panel for Collaborative Research Support for AID's Sustainable Agriculture and Natural Resource Management Program,1991-02-01 Toward Sustainability recommends a design for a new Collaborative Research Support Program CRSP for the U S Agency for International Development AID Currently eight CRSPs operate under legislation that supports long term agricultural research of benefit to developing countries and the United States This book defines a process by which knowledge from all relevant AID supported programs could be integrated and applied to advance profitable farming systems that improve local conditions and contribute to environmental goals It makes recommendations on the types of competitive grants that should be made available under a new program institutional participation content of research proposals and administrative procedures *ECEL 2019 18th European Conference on e-Learning* Rikke Ørngreen,Bente Meyer,Mie Buhl ,2019-11-07 **Interaction Design** Yvonne Rogers,Jenny Preece,Helen Sharp,2015 **Designing for Informed Consent** Nathaniel Stanley Good,2008 Communication Arts ,2008

Strengthening the User-centered Product Design Paradigm with Cognitive Modeling Melih Gunal,2006

Design Issues ,2010 *Cognitive Sociolinguistics* Gitte Kristiansen,René Dirven,2008 A union of Cognitive Linguistics and Sociolinguistics was bound to happen Both proclaim a usage based approach to language and aim to analyse actual language use in objective ways Whereas Sociolinguistics is by nature on the outlook for language in its variety CL can no longer afford to ignore social variation in language as it manifests itself in the usage data Nor can it fail to adopt an empirical methodology that reflects variation as it actually occurs beyond the limited knowledge of the individual observer Conversely while CL can only benefit from a heightened sensitivity to social aspects the rich bottom up theoretical framework it has developed is likely to contribute to a much better understanding of the meaning of variationist phenomena The volume brings together fifteen chapters written by prominent scholars testifying of rich empirical and theoretizing research into the social aspects of language variation Taking a broad view on Cognitive Sociolinguistics the volume covers three main areas corpus based research on language variation cognitive cultural models and the ideologies of sociopolitical and socio economic systems Social Computing Subhasish Dasgupta,2010 Social Computing Concepts Methodologies Tools and Applications

uncovers the growing and expanding phenomenon of human behavior social constructs and communication in online environments This multiple volume publication presents the latest research on social change evolving networks media and interaction with technology to offer audiences a comprehensive view **Theories and Practice in Interaction Design**
Sebastiano Bagnara,Gillian Crampton Smith,2006-06-20 Ad hoc and interdisciplinary the field of interaction design claims no unified theory Yet guidelines are needed In essays by 26 major thinkers and designers this book presents the rich mosaic of ideas which nourish the lively art of interaction design The editors introduction is a critical survey of interaction design with a debt and contribut *Educational Facility Planner* ,2007 Human Computer Interaction Panayiotis Zaphiris,2008-10-01
This reference book penetrates the human computer interaction HCI field a wide variety of comprehensive research papers aimed at expanding the knowledge of HCI Provided by publisher **New Scientist** ,2008 *ACM Transactions on Computer-human Interaction* ,2005 Presents original research that spans the field of human computer interaction The primary emphasis has been on results of broad application but the journal also publishes work focused on special domains on special requirements on ethical issues the full range of design development and use of interactive systems **Nature** Sir Norman Lockyer,2007

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web section learning objectives by the end of this section you will be able to do the following explain radioactive half life and its role in radiometric dating calculate radioactive half life and solve problems associated with radiometric dating section key terms half life and the rate of radioactive decay unstable nuclei decay

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web jul 24 2023 directions common core state standards printable worksheets and classroom aids objectives students will learn about radioactive decay and decay chains demonstrate the concept of half life calculate and chart the half life of a given sample discuss the significance of knowing the half life of radioactive elements

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web solution if we compare the time that has passed to the isotope s half life we note that 44 0 s is exactly 4 half lives so using the previous equation n 4 substituting and solving results in the following less than one third of a gram of 20 f remains skill building exercise the half life of 44 ti is 60 0 y

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web solution 7 2 2 4 3 half lives 1 2 0 125 the amount remaining after 3 half lives 100 0 g x 0 125 12 5 g remaining problem 2 pd 100 has a half life of 3 6 days if one had 6 02 x 10 atoms at the start how many atoms would be present after 20 0 days solution 20 0 3 6 5 56 half lives

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web radioactive isotopes are used for blood flow monitoring cancer treatment paper mills carbon dating and smoke alarms each isotope used in these applications has a characteristic half life