ERPsim SAP & ERPsim for Research

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Panel Discussion Online | Sep 27, 2022



Serious games to learn enterprise systems and business analytics

Agenda

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1. Opening address

- Sindhu Gangadharan 10 am Singapore Time
- Karina Edmonds 1 pm Montréal Time
- 2. Panel discussion
- 3. **Q&A**
- 4. Closing remarks

Keynote speaker (1 pm Montréal Time)



Karina Montilla Edmonds, PhD

SVP, Global Head of Academies and University Alliances, SAP

Keynote speaker (10 am Singapore Time)



Sindhu Gangadharan SVP & MD, SAP Labs India and Head, SAP User Enablement

Moderators





Michael Bliemel

Ontario Tech University



Panelists (1 pm Montréal Time)



Karina Edmonds

SAP Academies and University Alliances



Mark Angolia East Carolina University



Jeff Mullins University of Arkansas



Mark Hwang Central Michigan University



Bih-Ru Lea Missouri University of S&T



Burak Oz HEC Montréal

Panelists (10 am Singapore Time)









Nadia Faisal

Ramesh Behl

SVK Bharathi International Management Institute Symbiosis Intl. (Deemed University)

Mehmood A. Chadhar

Federation University Australia







Burak Oz **HEC Montréal**



Jeff Mullins University of Arkansas



Bih-Ru Lea Missouri University of S&T

Program to stimulate Research

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ERPsim program to encourage research

Free use for research

- Allows the use of ERPsim for a qualified experimental research project
- Experimental setting: research conducted under scientifically acceptable conditions with experimental methods
- Project must be approved by your Research Ethics Board (REB)
- Project must be approved by the ERPsim Lab Research Committee
- Submit your research project description and REB certificate to: erpsim@hec.ca

erpsim.hec.ca/research

Experimental Research Examples

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ERPsim for Research

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(HTML] Business intelligence serious game participatory development: lessons from ERPsim for big data <u>E Labonte-LeMoyne</u> , <u>PM Leger</u> , <u>J Robert</u> Business Process, 2017 - emerald.com Purpose A major trend in enterprise resource planning software (ERP) is to embed business analytics tools within user-centered roles in enterprise software. This integration allows ☆ Save 99 Cite Cited by 19 Related articles All 3 versions ≫	[HTML] er Full Viev	mera v	ald.co	m		
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The pupils' academy of serious gaming: Strengthening study skills with ERPsim M Utesch, <u>R Heininger</u> , <u>H Krcmar</u> - 2016 13th International, 2016 - ieeexplore.ieee.org Since we look at deploying the business game ERPsim in the context of a German school curriculum, it is appropriate to examine the related German research briefly. The concept ☆ Save 99 Cite Cited by 14 Related articles All 2 versions	[PDF] iee	e.or	g			



Jeffrey K. Mullins Ӓ 🖾, Timothy Paul Cronan 🖾







 Towards a Hybrid Passive BCI for the Modulation of Sustained Attention Using EEG and FNIRS

Objective: Test the effectiveness of a brain-computer interface in regulating users' attention in monitoring tasks

Methods:

Participants as individuals, logistics introduction game with only stock transfer decisions, **simulation speed is very slow**

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Karran, Alexander, Theophile Demazure, Pierre-Majorique Léger, Elise Labonte-LeMoyne, Sylvain Sénécal, Marc Fredette, and Gilbert Babin. "Towards a Hybrid Passive BCI for the Modulation of Sustained Attention Using EEG and FNIRS." Frontiers in Human Neuroscience 13, no. 393 (2019). https://doi.org/10/ggt5z9.





• Using Digital Nudges on Analytics Dashboards to Reduce Anchoring Bias

Objective: Test the effectiveness of digital nudging in mitigating anchoring bias **Methods:**

Participants as individuals, logistics introduction game with only stock transfer decisions, **simulation speed is very fast, decisions only made in-between rounds**



			Digital Nuaging on Analytics Dashboaras					
Using Digital Nudges on Analytics Dashboards to Reduce Anchoring Bias								
Burak Oz HEC Montréal	Kevin Ti HEC I	ran-Nguyen Montréal	Constantinos K. Coursaris HEC Montréal					
burak.oz@hec.ca Jacques Robe HEC Montréa jacques.robert@h	kevin.tran-n rt il ec.ca	guyen@hec.ca Pie	coursaris@hec.ca erre-Majorique Léger HEC Montréal pml@hec.ca					
ABSTRACT This study investigates the effectiveness: on reducing the anchoring bias observ supply chain management (SCM) softy subjects experiment with 61 participant comparing a control group with two types implemented on an SCM analytics das show that digital madging can belep mitig bias in several use conditions. Theoret contributions are discussed, which inclus to indrividual-level outcomes, digital mus- ppled in batasis, environment	of digital nudging ed in the use of vare. A between- is was conducted s of digital nudges hboard. Findings gate an anchoring cal and practical le that in addition guing can also be s to improve	issues, such as e consumption, en increased donati (Hummel and Ma this set of studiec increase employee aims to bring atter costly impacts of these objectives, software packago resource planning study poses the fo	energy consumption reduction, healthy vironmentally conscious consumption on amounts, or increased saving edeche, 2019. This study aims to extent l objectives by using digital nudging to si decision-making performance. It also tition to a potential solution to reduce this study focuses on digital nudging it se used in SCM, such as enterpriss (ERP) and forecasting applications. This llowing research questions:					
Keywords		RQ1. Can anchoring bias be mitigated through the use of digital nudging?						
Digital nudging, anchoring effect, decisi chain management, ERPsim	sion bias, supply	RQ2. Does digital nudging have an increased effect over time on aiding performance?						
INTRODUCTION		RQ3. Is the observ anchoring bias is	ved effect of digital nudging greater when greater?					
A cognitive bias can be defined as "syste from rational judgment" (Caraban, Karap	ematic deviations panos, Gonçalves,	BACKGROUND	AND THEORY					
(SCM) literature draws attention to the c	costly effects of a	Cognitive Biases	in Management Domains					
defined as market usis, use unstituting of defined as market and the second second second probability of the second second second second in the SCM practice contribute to the same example, the initial forecasts from a cor- serve as anchers that influence the decisio Goodwin, Lawrence, and Nikolopoulos. Ginodwin, Lawrence, and Nikolopoulos, aims to identify the conditions that incre- effect in the interactions with an I	cc, mining ten of influence of first Bode, 2011). systems (IS) used horing effect. For uputer application n-makers (Fildes, 2009). This study ase the anchoring IS and test the cing the negative	which increased unplanned chang Therefore, despit decisions, people the decision-maki initial forecasts ar for the decision-m contribute to the o in the sales foreca	suppry summs have vectore inder global the importance of adaptability to see (Petit, Croxton, and Fiksel, 2019) the de automation of many repetitivy are considered as the crucial elements of ing process (Jeng, 2018). The systems is identified as systems-generated anchors nakers (Fildes et al., 2009). Such anchors versetimation or underestimation errors sts of the individual levels in the chain.					
impact of this cognitive bias. Digital nudging is "the use of user- elements to guide people's behavior i environments" (Weinmann, Schneider, a p. 433). There is a considerable amount of in the IS domain investigating the design dioital mudges (Caraban et al. 2019- ML	interface design in digital choice nd Brocke, 2016, fresearch activity as and impacts of rsch. Lehrer, and	Research on SC information from the whole system an operations man increased variabil supply side in the several inefficience stock levels, over	M shows that a piece of distorted one stage of the supply chain will impace 's performance. The bullwhip effect' is nagement phenomenon that refers to the ity in the orders as one goes towards the e chain. The bullwhip effect introduces cies to the supply chains: increased safety production. increased expediting costs					

Oz, Burak; Tran-Nguyen, Kevin; Coursaris, Constantinos K.; Robert, Jacques; and Léger, Pierre-Majorique, "Using Digital Nudges on Analytics Dashboards to Reduce Anchoring Bias" (2020). SIGHCI 2020 Proceedings. 3.





Thank You!

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