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DESIGN & INNOVATION

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DESIGN INNOVATION



AAP faculty explore design innovation, resilience

"The event, originally intended to be held in person over two days at UCL, was hosted by the Bartlett School of Architecture at UCL and UCL Engineering and co-organized by AAP and the Swinburne University of Technology. When FABRICATE switched to an online format, Cornell provided a virtual platform for streaming, expanding the conference's reach to a broader audience."

Source: Cornell Chronicle

Herald Design Forum envisions next 10 years of design, innovation

"The annual Herald Design Forum kicked off Thursday morning, marking its 10th edition by envisioning how design could change the world in the coming decade. Under the slogan "Another 10 Years," the largest design forum in Asia brought together prominent designers, architects, artists, curators and directors. The event was held virtually for the first time due to the COVID-19 pandemic, with over 1,400 participants livestreaming the sessions."

Source: The Korea Herald

Inside AD's Ultimate Guide to the Best Design in Transport

"We pored over the offerings across existing and impending categories

DESIGN THINKING



Design Thinking for Social Innovation in an Era of Social Distancing: a proposal for a workshop programme

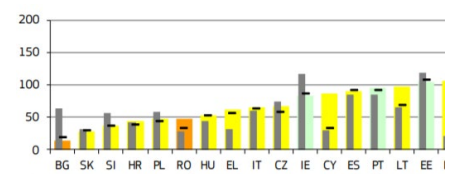
"The current study is about the application of Design Thinking (DT) for Social Innovation (SI) during a period of social distancing. The investigation started by reviewing the literature regarding DT, SI, and societal states (social distancing, social isolation and social interaction) to understand, related to the Covid-19 pandemic, how could look like a Social Innovation process based on a Design Thinking method through a workshop programme built on the Social Evolution 6 model."

Source: U PORTO

Entrepreneurial design framework. How design thinking methodologies can help pursuing corporate entrepreneurship

"This study argues that specific Design Thinking approaches and methodologies can help corporations in achieving such aims. Thus, the research provides a deep analysis of both Corporate Entrepreneurship and Design Thinking literatures. Then, from an empirical standpoint, qualitative data has been gathered in the form of semi-structured interviews upon selected case studies' in the Italian Fintech

DESIGN THINKING



Design Thinking Market 2020

"The report published on the global Design Thinking market is a comprehensive analysis of a variety of factors that are prevalent in the Design Thinking market. An industrial overview of the global market is provided along with the market growth hoped to be achieved with the products that are sold. Major companies who occupy a large market share and the different products sold by them in the global market are identified and are mentioned in the report."

Source: Aerospace Journal

INNOVATION



Open Innovation Outlook – 2020 Report

"The approach to Open Innovation is definitively evolving over time. While a few years ago the main goal of companies was to communicate their activities in support of innovation, targeting attention from the media and, generally, their startup-friendliness, today it is all about producing collaborations with startups that have

and culled this list of the coolest, most interesting, most inventive, and sometimes most fantastical iterations of transport. Our personal jetpacks aren't here yet, and may never be, but major change is creeping in and will continue to shape individual and group travel in the decade to come."

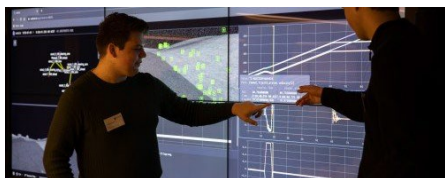
Source: Architectural Digest

Why the world needs innovative design more than ever

"Newlab, Fast Company's Design Company of the Year, is an inspiring example. The Brooklyn tech hub's sprawling network of designers, engineers, makers, and others convened online, after a spike of COVID-19 diagnoses shuttered New York, to devise solutions to everything from medical supply shortages to inaccurate case counts. One project was Spiro Wave, an emergency ventilator that has fewer parts than a traditional one in an ICU, making it easier to manufacture locally (in Queens) and incorporate into the city's strategic stockpile at a time when COVID-19 had severely strained global trade and shipments from overseas were stymied. Newlab's success is a testament to the power of creative collaboration that values people over profits."

Source: Fast Company

DESIGN EDUCATION



Design facility pushes innovation boundaries

"A new design facility, located at the University of Adelaide, will offer organisations and individuals a space in which to push the boundaries of technical, industrial and business innovation. Launched today, the Collaborative Design Facility which is the first of its type in Australia, will be used by the people who will shape the future of Australia's participation in the global economy in key sectors such as defence, energy, AgTech, life sciences or health."

Source: University of Adelaide

INNOVATION



environment. From these observations, an Entrepreneurial Design Framework has been synthesized as a comprehensive map that associates Design Thinking methods to Corporate Entrepreneurship processes. The proposed model sheds a light on existing literature gaps, while providing a valuable aid to practitioners in fostering and pursuing different types of Corporate Entrepreneurship initiatives."

Source: Politecnico

Building Design Thinking into Content Strategy

"This experience report demonstrates how to build design thinking into content strategy practices. Design thinking is an innovation process of empathizing, ideating, and prototyping for the optimal user experience. Content strategy is a process of analyzing and strategizing for optimal content that meets user goals and business objectives. This report compares the processes of design thinking and content strategy. It reports two approaches, user journey mapping and storyboarding, which effectively apply the advantages of design thinking to enrich content strategy."

Source: SIGDOC '20: Proceedings of the 38th ACM International Conference on Design of Communication

The Intersection of Design Thinking and Website Creation: Findings from Two Case Studies

"The study finds that DT works as an effective process for designing websites and is particularly effective at uncovering user pain points and generating innovative solutions to address those problems."

Source: SIGDOC '20: Proceedings of the 38th ACM International Conference on Design of Communication

Application of design thinking to product-configuration projects

"This article argues that developing configurators may be understood by distinguishing between the problem and solution spaces using design thinking (DT)."

Source: Journal of Manufacturing Technology Management

The Backside of the Loop: Design Thinking as a Strategic Resource For Change

"Through a review of literature, this paper contains a brief history of strategy and the different schools of formation and formulation of strategy. It then contrasts two different organizational capabilities, strategic thinking and design thinking, in order to explain how they fit

an impact on the company's EBITDA."

Source: Mind the Bridge

State of Corporate Innovation Report

"The report features responses from 114 participants spanning several sectors from across the globe, with more than half of participating organizations employing a workforce greater than 1,000 employees, and half of which have an annual revenue exceeding \$1B. Nearly half of respondents reported working in innovation-specific roles such as innovation leaders, innovation specialists, and Chief Innovation Officers."

Source: Planbox

KPMG Digital Delta Innovation Trends 2020

"KPMG Digital Delta's Innovation Trends 2020 provides research data and analysis to provide an understanding of the changing perceptions of innovation through this turbulent and uncertain period. The report aims to help inform future priorities and investment decisions."

Source: KPMG

Report: Intelligence, information & innovation – how UK financial services is shaping up for 2020

"Nuxeo and Censuswide conducted comprehensive new research into the challenges, concerns and opportunities facing UK financial services providers, as perceived by those working inside the industry. The study, which predicts market conditions in 2020, was conducted among 501 respondents working in UK banking and finance."

Source: Fintechfutures

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Source: Fintechfutures

Innovation spins spider web architecture into 3D imaging technology

"Organised by the Institute of Materials, Minerals and Mining and the Worshipful Company of Horners, and industry headline sponsored by Covestro, DIP challenged students to come up with a brand new product on the theme of urban living, which would enhance life in a city environment, for use in flats or whilst commuting."

Source: Purdue University

Embrace a Little Chaos When Innovating Under Pressure

"Our recent research suggests a simple yet counterintuitive strategy to do just that: Teams tasked with rapid innovation should forego time-consuming upfront processes and embrace a mindset of minimal and adaptive coordination."

Source: Harvard Business Review

Define what innovation means for your company or it won't happen

"Define what marketing innovation means to your organization, develop a tight brief based on an understanding of your customer's needs, and deliver effectively with the right framework and expectations in place. In this piece I'll take you through how to define marketing innovation that is relevant to your organization."

Source: The Drum

DESIGN THINKING



What Is Design Thinking? It Depends On Your Customers.

"Writing for the Harvard Business Review, Liedtka cites a seven-year study of 50 projects from business, healthcare and social services sectors, in which she found "design thinking has the potential to unleash people's full creative energies, win their commitment, and radically improve processes."

Source: Built-In

How people managers can adopt Design Thinking to re-engage their distressed workforce

"How can we craft differentiated and enduring employee experiences at a time when scores of employees are under greater pressure than ever before? Design thinking may offer some fresh solutions."

together and their value to organizations. By using two concepts, adaptive cycles and organizational ecocycles, to explore the life stages of organizations, this paper explains the necessity of creative management and design thinking as a resource for change. While business administration is used to stabilize and formalize organizational processes, design thinking can be used to disrupt old processes and empower emergent innovations. Finally, this paper argues that design thinking as a resource must be protected and handled strategically in order to be effective."

Source: OCAD University

Building on Design Thinking to Work Creatively with Knowledge: A tale of two paradigms

"Creative problem solving is an important 21st century skill, and design thinking has found application in a range of sectors including education, driven by its promise as a catalyst for innovation."

Source: DS 104: Proceedings of the 22nd International Conference on Engineering and Product Design Education (E&PDE 2020)

The Effect of Creative Potential on Innovation Behavior: focusing on Design Thinking

"The purpose of study is to examine the effects of design thinking-based programs on creative potential, creativity and innovation behavior, as well as the mediating effect of creative potential and creativity. Research design, data and methodology: The study was conducted through a four-step process. First, the previous studies were investigated. Second, a total of three experts were reviewed to improve and supplement the program. Third, a workshop-based design thinking program was conducted four times. Fourth, the effectiveness of the program was reviewed through data analysis."

Source: The Journal of Distribution Science

Design thinking and workplace innovation interface

"This chapter proposes that design thinking or human centred design and its focus on creating more desirable futures, captures the imagination, energy and human ingenuity to stimulate, nurture and shape new ways of thinking and working, delivering collaborative new improved solutions across multiple organisational contexts, and enabling workplace innovation."

Source: The Palgrave Handbook of Workplace Innovation

How To Apply Design Thinking To A RevOps World

"Two concepts that probably sound like buzzwords for many are "design thinking" and "revenue operations." Why? Possibly because both of them have been hot topics in the last couple of years. Revenue operations (RevOps), though, has seen its real debut in the past three years, with companies now rebranding themselves as "revenue operations platforms.""

Source: Forbes

To Build More-Inclusive Technology, Change Your Design Process

"To address this, organizations, experts, and regulators have worked to make technology more accessible for people with different physical and cognitive abilities; the tech industry has taken meager steps to diversify its workforce. But technology products and services are still largely built by a narrow slice of society, and it shows: from racial prejudice in artificial intelligence to the harassment of Black, Indigenous, and people of color, as well as gender minorities in digital spaces, technology often exacerbates exclusion."

Source: Harvard Business Review

The Importance Of Design Process To Build Inclusive Technology

"If an education upheaval will happen through the adoption of innovations, right now is an ideal opportunity to start the design process so as to make this new educational paradigm as comprehensive as possible. Robotisation, automation, artificial intelligence and immersive learning tools will prompt new opportunities in education with wide-going implications, as we make students ready for this move-in employment opportunities, social activities and broader engagement with the world."

Source: Analytics Insight

The Significance Of Practicing Design Thinking In Your Personal Life

"If I have to simply explain what design thinking is, I would say it is a process in which one identifies a problem finds creative solution and put it's to practice. In professional spaces, the process of design thinking has about 5 stages which the experts have pointed down as the empathize stage, problem definition stage, solutions ideating stage, prototype stage and the final, testing stage. In your personal space though, you

The User Innovation Toolkit: Project-Based Learning For Non-Designers

"we have developed an online wizard, intended for use by novice non-design students that provides a curated selection of tools to support students in project-based learning, with an emphasis on end-user involvement. The toolkit follows an iterative approach, with checks on whether intermediate requirements are met (i.e.: problem definition, knowledge of the user or stakeholders). Our article will present this toolkit and its use among a group of students who did not follow a traditional design education (n=18). We expand on the rationale for the toolkit and reflect on the results of the evaluation."

Source: INTERNATIONAL CONFERENCE ON ENGINEERING AND PRODUCT DESIGN EDUCATION

The Methodology of Design Thinking as a Tool for Forming Innovative Solutions

"This paper examines in detail some of the most interesting decisions in planning, modeling, and strategic thinking, from process design and adaptation of the methodology to achieve the objectives. The authors consider such factors as personal experience, language, thought processes, preferences, and prejudices as integral and essential factors of design thinking. The research methodology includes a comparison and analysis of available information on the methods of the formation of innovative solutions, their effectiveness, and their initial focus. The research methodology includes analysis of the results obtained for their implementation in the company's practical activities."

Source: Frontier Information Technology and Systems Research in Cooperative Economics

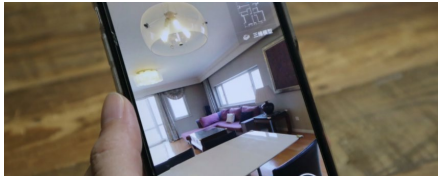
Designing Collaboration Learning Work Experiences

"This chapter discusses the importance of collaboration as a skill for leadership in an age of technology disruptions. It introduces a community-based framework for creating collaborative environments that has applications for a variety of contexts. The framework includes the following elements: a common goal related to a mutual work challenge or interest; a collaborative co-design mindset where participants cooperatively work together to gain new information and insights; a network of people connected in ways that build relationships based on shared needs and experiences; a structured, guided process to ensure a disciplined game plan; a variety of tools, techniques, and methods from

need not go about every stage to find solutions."

Source: Youth Incorporated

ENTREPRENEURSHIP



How Apple Is Organized for Innovation

"Here we discuss the innovation benefits and leadership challenges of Apple's distinctive and ever-evolving organizational model, which may be useful for individuals and companies wanting to better understand how to succeed in rapidly changing environments."

Source: Harvard Business Review

From innovative to invincible: how successful companies blend startup spirit with corporate management

"Invincible companies have an 'explore' as well as 'exploit' portfolio. Successful new offerings ('rising stars') are shifted from the 'search' portfolio to the 'grow' portfolio."

Source: Yourstory

TRANSFORMATION



Business Innovation Can Transform Health Care Technology: A Two-Stage Approach

"Looking at the rising trend of world complexities, it sure looks like a fair way to drive comprehensive solutions and tap larger markets. In my opinion, this is not only relevant but a mandatory practice to nurture within health care tech and data sharing. I believe it will help to better organize the health care system and drive new patient management pathways."

Source: Forbes

various disciplines including such as and Design Thinking to enable a disciplined yet flexible approach for finding solutions; a technology-based platform for knowledge management and communications; and an intentional focus on learning."

Source: The Oxford Handbook of Lifelong Learning, Second Edition

DESIGN EDUCATION



The Effectiveness of Design Thinking Course in Promoting Critical Thinking Skills

"This study uses questionnaire on 114 undergraduates of a private university in Malaysia. The result shows that Design Thinking course does help to enhance critical thinking skills, in which the implication brings positive impact on teaching and learning in higher education Malaysia"

Source: International Perspectives on Policies, Practices & Pedagogies for Promoting Social Responsibility in Higher Education, Volume 32

Cultivating creativity in a high-performing education system: The example of Singapore

"this article examines the teaching and learning of creativity in Singapore. It is argued that "everyday creativity" and creativity as innovation are privileged by educators in Singapore. Creativity is promoted through a harmonized approach that is manifested in two main ways."

Source: Journal of Curriculum and Pedagogy

The use of design thinking in the creation of academic incubators

"The DT process can be very difficult to describe, but its use by the creation of a business incubator will yield many benefits and new initiatives. DT is a great solution to this problem because it relates programme activities to their effect, it helps keep stakeholders focused on achieving outcomes, while it remains flexible and open to finding the best means to enact a unique story of change. Research implications/limitations – The limitations of the described study are observer bias and difficulty of replication. The effect of this process was not implemented because there was insufficient funding and the decisions regarding the implementation of this idea have changed.

Originality/value/contribution – This

paper is a one-of-a-kind description of the implementation of design thinking methodology in the creation of an academic incubator."

Source: Journal of Economics & Management

Making an Impact: Transforming Undergraduate Business Education

"The design thinking process that underpinned the curriculum re-development is outlined and the graduate profile and curriculum structure that emerged from the process are discussed."

Source: International Perspectives on Policies, Practices & Pedagogies for Promoting Social Responsibility in Higher Education, Volume 32

Design Thinking: A Pedagogy for Higher Education?

"The design thinking process has been used in various organizations and contexts to devise creative, user-based solutions to complex problems. Design thinking can bridge the gap between theory and practice, support student outcomes such as empathy, reflection, and creativity, and encourage risk-taking and community engagement."

Source: 2020 Teaching and Learning Symposium Poster Presentations

Design As A Catalyst: A Pedagogical Framework

"There is an increasing interest in the design and creative thinking process in the Sciences, Technology, Engineering and Mathematics (STEM) and health education disciplines. Many new degree programs are integrating design thinking into their syllabi."

Source: DS 104: Proceedings of the 22nd International Conference on Engineering and Product Design Education (E&PDE 2020)

Design as a means of aesthetic education

"The article considers design as a means of aesthetic education. Due to the design, products and the environment become adapted to Psychology, Physiology, anthropometric data, socio-cultural needs and preferences of a person. All this is enriched by life experience and the development of various strategies of thinking. The features of design thinking are stable activity, intellectual initiative, flexibility, originality, striving for completeness of form, and the realization of ideas. No matter what age the design study begins, the teacher of additional education will first always face the first level of thinking. The earlier the student begins to receive targeted design training, the faster he will get out of the stage of spontaneous thinking."

Source: ACADEMICIA: An International Multidisciplinary Research Journal

INNOVATION



Innovative Application of Bamboo in Modern Product Design

"In view of the problems existing in the development of bamboo products in China, several innovative design methods of bamboo products are proposed from the perspective of modern design, including the use of modern styling concepts, modern design concepts, and modern manufacturing techniques."

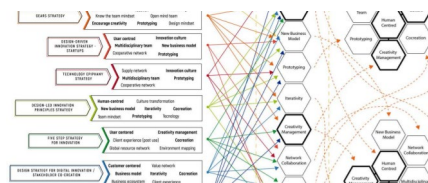
Source: 2019 International Conference on Education, Management, Social Science and Humanities Research (EMSSHR 2019)

Designing the Future: Past and Future Trajectories for Design Innovation Research

"In the context of this virtual issue, we conceptualize design in terms of a product's external appearance, which is determined by a specific configuration of visual elements such as colors, shapes, lines, proportions, and materials"

Source: The Journal of Product Innovation Management

DESIGN MANAGEMENT



Innovation strategies model in the design management

"Through a systematic literature review, following the Visual Method for Systematic Design Review presented by Blum, Merino, and Merino (2016), eight articles from the last fourteen years were selected and further analyzed with proposals for strategies for innovation promoted by design. In the end, based on the analyzed authors, a Modular Beehive Structure for Innovation model is proposed, formed by patterns of knowledge of the selected authors practices that may lead to innovation when combined according to the goals and resources of each company."

Source: Santos

