

Kje in kako poiskati odprtodostopne vire za vašo raziskavo?

Jerneja Grašič, Univerzitetna knjižnica Maribor
12. 6. 2025



Projekt sofinancirata Republika Slovenija, Ministrstvo za visoko šolstvo, znanost in inovacije, in Evropska unija – NextGenerationEU. Projekt se izvaja skladno z načrtom v okviru razvojnega področja Pametna, trajnostna in vključujoča rast, komponente Krepitev kompetenc, zlasti digitalnih in tistih, ki jih zahtevajo novi poklici in zeleni prehod (C3 K5), za ukrep investicija F. Izvajanje pilotnih projektov, katerih rezultati bodo podlaga za pripravo izhodišč za reformo visokega šolstva za zelen in odporen prehod v družbo 5.0: projekt Pilotni projekti za prenovu visokega šolstva za zelen in odporen prehod.





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Coffee bean sorting is currently based primarily on visual appearance and near-infrared techniques that probe the bean's skin. However, sorting based on compositional differences has significant ...
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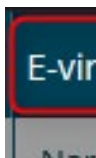
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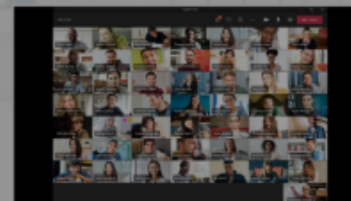
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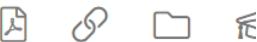
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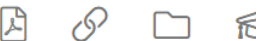
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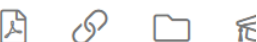
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1600 - 1649

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9

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33

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111

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Ostalo

167



Kraj izida: Maribor
Založnik: Konzorcij
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Jezik: slovenski
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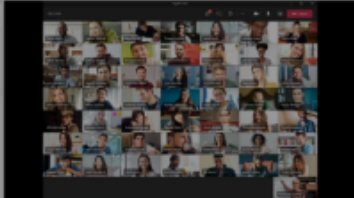
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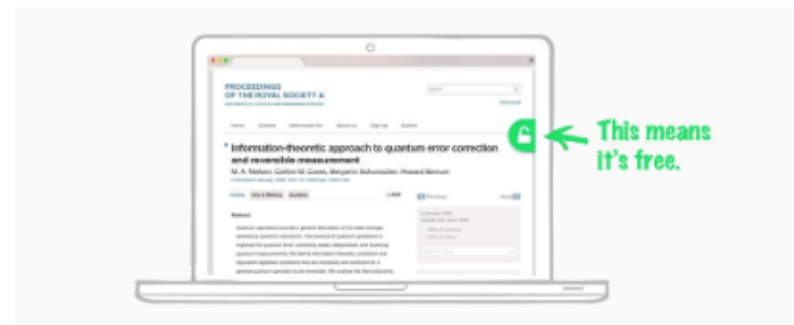
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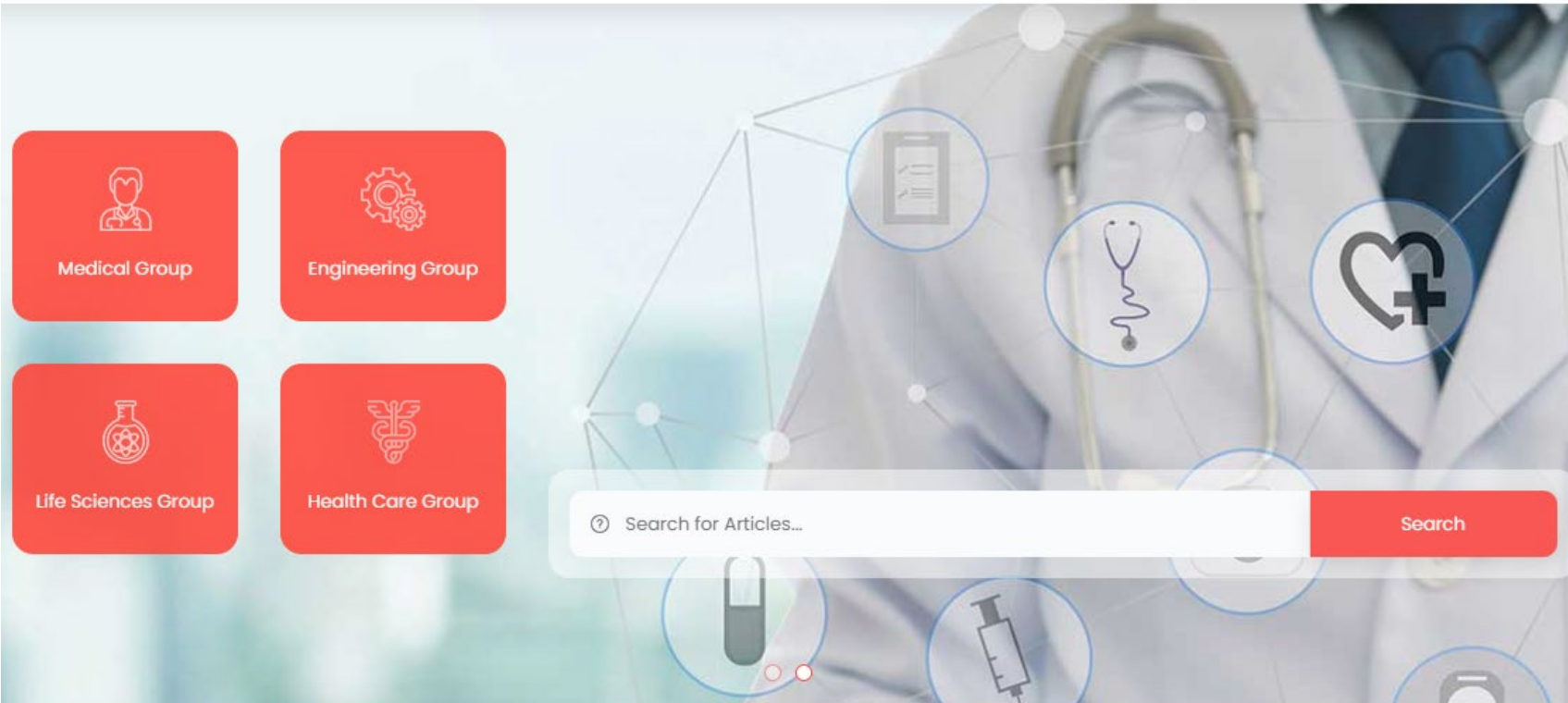
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Modeling and Optimizing Fluid Flow in A Channel Using Nanoparticles to Improve Channel Wettability; Potential Application in Nanomedicine and Human Respiratory System

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Published Date: August 23, 2024

Abstract

Fluid flow has played a vital role during the COVID-19 pandemic. Several approaches have been investigated such as the generation and aerosolization process of virus-laden respiratory droplets from the host, its airborne dispersion and surface deposition, as well as inhalation of bioaerosols. In recent times, more focus has shifted towards theoretical and empirical investigations of fluid flow physical properties which involved virus-laden particle prevention by facemasks. There are externally driven factors that depend on external parameters like temperature, density, viscosity and pressure. More efforts should be directed towards minimizing the risk of failure of the human lung during COVID-19 infection by modeling and optimizing internally driven parameters (respiratory stress, strain, creep, stress relaxation and elasticity) in the human respiratory system which is the main cause of COVID-related deaths. Therefore, the objective of this research is to minimize the risk of failure of the human lungs during COVID-19 infection. In the current study, a fluid flow model in the human respiratory system was developed and optimized by using fluid dynamics principles. The modeling process mimics an artificial activity on how impurities in the respiratory tract due to COVID-19 reduce fluid flow in the respiratory tract. The concept of biomechanics, fluid flow, and computational fluid dynamics (CFD) was used to model and optimize the flow of fluid. During the modeling and optimization process, it was revealed that nanoparticles increase fluid flow in the respiratory tract. It was also shown that nanoparticles lower the surface energy of the fluid and increase the surface tension of the fluid. Finally, the potential research directions for modeling and analyzing the fluid flow behavior during severe COVID-19 infection are highlighted.

Keywords: Fluid flow properties; biomechanics properties; respiratory system; COVID-19

Introduction

Scientific evidence in recent years has shown that the transmission of respiratory infections such as COVID-19 is primarily

usually formed in the respiratory system of an infected person and expelled from the mouth and nose during breathing, talking, coughing and sneezing (Jones & Brosseau 2015). It could be concluded that the recipient of aerosolized droplet nuclei from the expiratory ejecta area is usually transferred or delivered by ambient air during the transmission of the virus. Sometimes it is difficult to control airborne transmission due to the infinite size of air molecules. This has sparked global debate if a face mask can effectively control the transmission of airborne viruses.

Most respiratory infections lead to respiratory stress, strain, creep, stress relaxation, elasticity, viscosity, and viscoelasticity. This often leads to problems such as the frequency and intensity

events, such as sneezing and coughing, which in more generation and dispersion of virus-carrying l flow is a complex and dynamic process due to al processes such as temperature, density, viscosity, This makes the transmission process of COVID to

help to improve the airflow through the lungs.

Conclusion and Recommendation

The viscous flow in the lung channels impacts the flow of fluids in the lung during the respiration process. To study the surface

et al (2020). The derived expression in this study follows from the Hagen Poiseuille formula used for viscous flow. Therefore, the derivation of the Hagen Poiseuille Formula in the design membrane channel is given as

The viscous flow in the lung channels impacts the flow of fluids in the lung during the respiration process. To study the surface

Methodology

It is important to understand fluid dynamics and flow properties in the respiratory system to model and simulate the internally driven parameters in the human respiratory system. The fluid flow usually occurs through the trachea diameter, which varies with humans due to age as a main driven parameter (adult approximately d0=1.8 cm or 0.71 inch). More air is carried to the lungs by the tracheae in an adult. Airflow through the tracheae also depends on the alveoli properties. This is because there is a process in which the blood exchanges oxygen and carbon dioxide when breathing in and breathing out. This causes a change in pressure. The change in pressure due to varying stress intensity on the alveoli into the blood depends on fluid viscosity, density, flow diameter, and kinematic viscosity. To model these parameters, the model of Reynolds number given by equation [1] was utilized,

$$Re = \frac{\text{Inertia Forces}}{\text{Viscous Forces}} = \frac{\rho V D}{\mu} \quad (1)$$

help to improve the airflow through the lungs.

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$$\frac{[P_1 - P_2]}{\rho g} = h_f = \frac{8L\mu\bar{v}}{\rho\mu S_3 D^2} \quad (7)$$

The viscous flow in the lung channels impacts the flow of fluids in the lung during the respiration process. To study the surface

Conflict of Interest

No conflict of interest.

References

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What's the Deal with Birds?

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Abstract

Many people wonder: what's the deal with birds? This is a common query. Birds are pretty weird. I mean, they have feathers. WTF? Most other animals don't have feathers. To investigate this issue, I looked at some birds. I looked at a woodpecker, a parrot, and a penguin. They were all pretty weird! In conclusion, we may never know the deal with birds, but further study is warranted.

Keywords: birds, ornithology, behavior, phenotype, WTF, genomics, climate change

Introduction

Birds are very strange. Some people are like "whoa they're flying around and stuff, what's the deal with that?" This sentiment is shared by people across socioeconomic backgrounds. Figuring out what the deal is with birds is of the utmost scientific importance. It is now widely appreciated that the majority of socially monogamous passerine species are weird [1]. In species with moderately high extra-pair mating and paternal care, we need to understand what is going on with them [2]. In territorial species, what are they even doing [3] and they do all sorts of weird stuff [4] (but see [5]). In addition, there is a rich body of literature on how birds – which are very strange feathered creatures [6] – can strengthen the pair bond and sexual commitment, or directly avoid conflict with

Material and Methods

Study species and general field methods

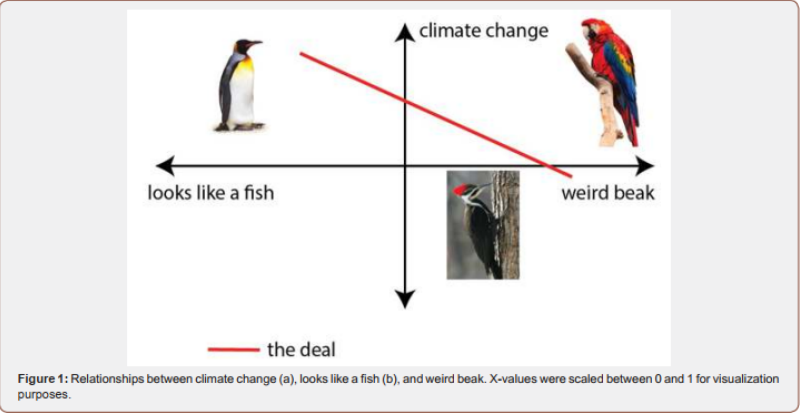
I looked at three different birds: a woodpecker, a parrot, and a penguin. I looked really close at them, squinting and everything, to try and figure out what was up with them. I conducted these experiments at our long-term study site in Samsonvale, Queensland (GPS = 27°16'S, 152°51'E). Detailed population monitoring and paternity assignment methods are described elsewhere [10]. Briefly, I watched them really close for quite a while [13-15]. To eliminate potential confounds, I thus conducted my experiments only on animals that I knew for sure were birds, and no other things

Repeatability of weird behaviors

I used three subsets of the data to analyze repeatability in male response across the multiple trials. Because the PCA data were non-Gaussian, I calculated repeatability using an overdispersed binomial GLMM in the R v3.1.1 [20] package *rptR* [21]. First, I chose the subset of males that received all six treatments ($N = 44$ males, six trials per male), and calculated repeatability in aggression

behaviors as the response variable, and average Aggression PC1 and trial date as fixed effects. For this model, I used the two-trial dataset for males with at least one successful nest ($N = 35$). Similarly, I analyzed duetting using the same model, but with average Duet PC1 and trial date as fixed effects. For this model, I used the two-trial, female-present dataset for males with at least one successful nest ($N = 13$).

Results



Citation: Daniel T. Baldassarre. What's the Deal with Birds?. Sci J Research & Rev. 2(3): 2020. SJRR.MS.ID.000540. DOI: 10.33552/SJRR.2020.02.000540.

Discussion

This is the first study I am aware of to attempt to quantify the deal with birds. Unfortunately, the results were ambiguous, although Bayesian approaches may prove useful in the future. This study has implications for climate change research. When presented with weird behavior, birds exhibited a multimodal response including physical aggression and duetting, both of which were repeatable across highly variable contexts. Even when including behavioral responses to heterospecific mounts and songs, which elicited relatively weak responses [19], repeatability in both behaviors was significant. This pattern suggests that although males modify their aggressive and vocal responses to intrusions representing varying threat levels, there are consistent among-individual differences in both of these behaviors (i.e., personality [22-24]). The repeatable nature of these behaviors suggests that they serve an important function, and here we examined the possibility that they are part of a behavioral strategy to ensure paternity.

Aggression did not have a significant effect on cuckoldry rate (Figure 1a), suggesting that more aggressive males are not successful at deterring rivals from intruding on their territories in search of EPCs. Alternatively, despite the fact that males are often observed foraging during the day, EPCs are rarely observed [11,12], and may occur pre-dawn, as has been observed in other fairy-wrens [25,26]. In this scenario, even if aggressive males successfully deter intruders, the resident female may still have the opportunity to evaluate the potential extra-pair mate, and copulate with him later. Aggression in this species may be more effective at defending

demonstrated in species such as Australian magpie-larks [29,30] and Costa Rican plain wrens [31]. Importantly, these hypotheses are not mutually exclusive, and duetting may serve multiple functions in the same species. In RBFW, there is strong support for territory establishment and defense, but the results presented here suggest that duetting also influences cuckoldry rates. More detailed observations of which pair member initiates a duet, and how answer rates affect cuckoldry are necessary to tease apart the various mechanisms discussed here, and are forthcoming [32].

Ethics

All work was conducted with approval from appropriate animal ethics and permitting agencies (Cornell University IACUC #0105, James Cook University Ethics Approval #A1340, Queensland Scientific Purposes Permit #WISPO7773610).

Data Accessibility

All data associated with this project are archived at Dryad.

Funding

Funding and equipment were provided by anonymous donations.

Conflict

No conflict

Acknowledgements

We thank Big Bird from Sesame Street for comments on the manuscript. Several trained monkeys transcribed videos.

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<https://doi.org/10.1037/hop0000027>

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Methodology/approach: After examining good practice examples and due to the necessity of providing the UML materials also in digitised form, we decided to establish the DR UKM. An outline and contents design were prepared, collections to be digitised were selected, the software platform, the interface, and the metadata scheme, which enables connectivity with other systems in open access, were prepared.

Results: A portal for browsing the UML digitised materials with the emphasis on open access to cultural heritage, which can be connected to other digital repositories, was established. With the DR UKM the UML contributes to shaping the virtual world of knowledge; with digitising precious cultural heritage of the university, the city and the region it ensures a wide access to cultural goods.

Originality/practical implications: The DR UKM was built by the University of Maribor professionals' own knowledge. It offers a wider accessibility and it protects rare and antiquarian materials 24/7; it also enables cooperation among libraries on the national and local level. Exchange of information and digitised objects as well as their searching are simplified.

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Play games or study? Computer games in eBooks to learn English vocabulary

Manuscript abstract

This study investigated how Chinese undergraduate college students studying English as a foreign language learned English vocabulary from computer games embedded in eBooks. The investigators specifically examined (a) the effectiveness of computer games embedded in eBooks, compared with hardcopy booklets for vocabulary retention, and (b) the relationship between students' learning performance and vocabulary test. A database recorded students' game playing behaviors in the lab. Findings showed that students who played computer games embedded in eBooks performed better on the vocabulary test than those who used hardcopy booklets. The results also showed that students' learning performance was positively related to their game playing behaviors.

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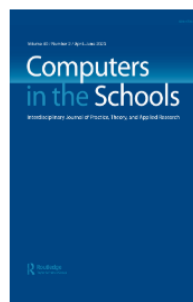
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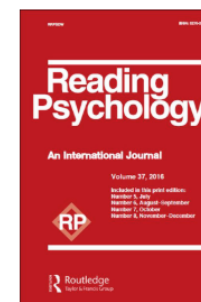
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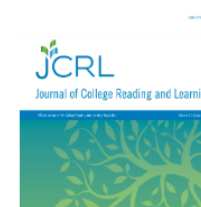


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