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1. arXiv:2305.06966 [pdf, other] CS.RD

Real-Time Joint Simulation of LiDAR Perception and Motion Planning for Automated Driving
Authors: Zhanhong Huang, Xiao Zhang, Xinming Huang
Abstract: ...meets the real-time requirement. The LiDAR perception system has high accuracy within 20 meters when evaluated with the ground truth. The motion planning results in consistent **safe** distance keeping when tested in CARLA urban driving scenarios. [More](#)
Submitted 11 May, 2023; **originally announced** May 2023.

2. arXiv:2305.06537 [pdf, other] CS.RD

Visuotactile Sensor Enabled Pneumatic Device Towards Compliant Oropharyngeal Swab Sampling
Authors: Shoujie Li, Mingshan He, Wenbo Ding, Lingji Ye, Xueqian Wang, Junbo Tan, Jinqiu Yuan, Xiao-Ping Zhang
Abstract: ...force sensors. Besides, by imitating the doctor's fingers, a soft pneumatic actuator with a rigid skeleton structure is designed, which is demonstrated to be reliable and **safe** via finite element modeling and experiments. Furthermore, we propose a sampling method that adopts a compliant control algorithm based on the adaptive virtual force to enhance the...
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Submitted 10 May, 2023; **originally announced** May 2023.
Comments: 8 pages

3. arXiv:2305.06432 [pdf, other] eess.SY CS.LG

A Generalizable Physics-informed Learning Framework for Risk Probability Estimation
Authors: Zhuoyuan Wang, Yorie Nakahira
Abstract: Accurate estimates of long-term risk probabilities and their gradients are critical for many stochastic **safe** control methods. However, computing such risk probabilities in real-time and in unseen or changing environments is challenging. Monte Carlo (MC) methods cannot accurately evaluate the probabilities and their gradients as an infinitesimal devisor can a...
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Submitted 10 May, 2023; **originally announced** May 2023.
Comments: Accepted at the 5th Annual Learning for Dynamics & Control (L4DC) Conference, 2023

arXiv.org

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A practical seedless infrared-safe cone jet algorithm
[GP Salam, G Soyez](#) - Journal of High Energy Physics, 2007 - iopscience.iop.org
... the IR **safety** of the rest of the **algorithm** ... **safety** of the **algorithm** As a byproduct, we will obtain a measure of the IR unsafety of various commonly used formulations of the cone **algorithm** ...
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Nonblocking algorithms and preemption-safe locking on multiprogrammed shared memory multiprocessors
[MM Michael, ML Scott](#) - Journal of parallel and distributed computing, 1998 - Elsevier
... preemption-**safe** locking in Section 2 and nonblocking **algorithms** in Section 3. In Section 4, we discuss nonblocking queue **algorithms** and present two concurrent queue **algorithms** of ...
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A safe approximate algorithm for interprocedural aliasing
[W Landi, BG Ryder](#) - ACM SIGPLAN Notices, 1992 - dl.acm.org
... We present an **algorithm** for the Conditional May Alias problem, which can be used to **safely** approximate interprocedural May Alias in the presence of pointers. This **algorithm** is as ...
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An improved safety algorithm for artificial intelligence enabled processors in self driving cars
[S Manoharan](#) - Journal of artificial intelligence, 2019 - irojournals.com
... proposed **algorithm** for using real time data ensures the competence of the **safety algorithm** in ... is arranged with the related works in the section 2, the proposed **safety algorithm** in the ...
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A safe, efficient algorithm for regression test selection
[Q Rothemel, MJ Harold](#) - 1993 Conference on Software ..., 1993 - ieeeexplore.ieee.org
... retest **algorithm**, and an **algorithm** that meets these criteria. Our **algorithm**, SelectTests, is **safe**, ... **algorithms** aimed at achieving **safe** solutions, partly because it does not base its selection ...
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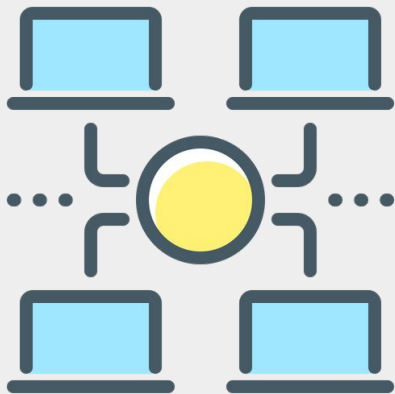
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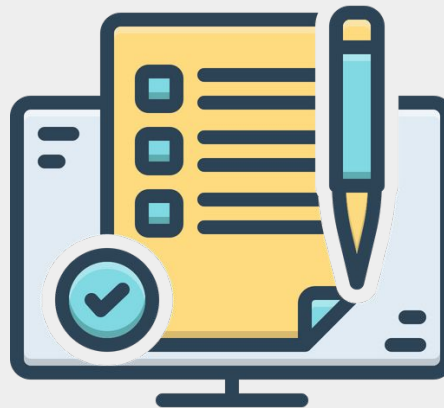
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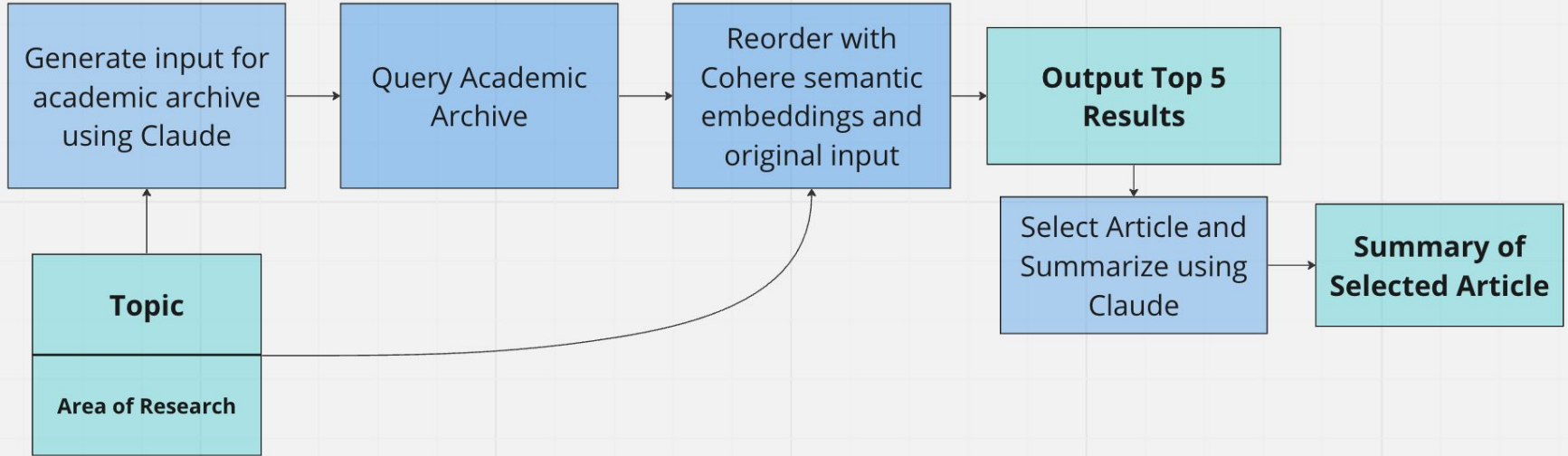
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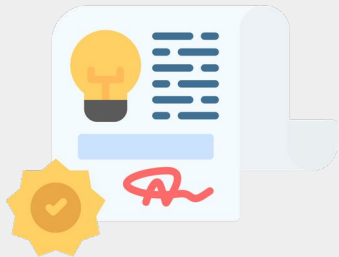
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Here is the top 20% of learnings to understand 80% of the paper:

1. **mRNA Design Problem Formulation** The paper formulates the mRNA design problem as an optimization to maximize stability (measured by minimum free energy or MFE) and codon optimality (measured by codon adaptation index or CAI) of the mRNA sequence. The stability objective aims to find the mRNA sequence with the lowest MFE among all sequences that encode the target protein. The codon optimality objective aims to find the sequence with the highest CAI. The paper proposes optimizing a joint objective that balances these two factors.



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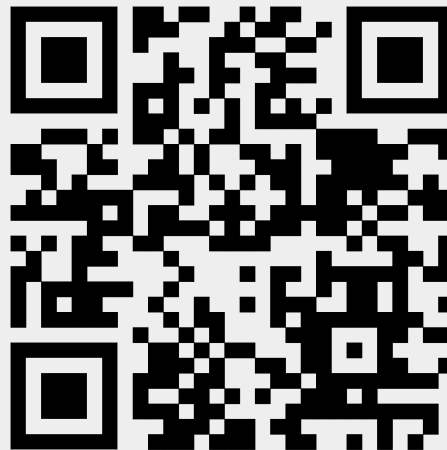
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