Theme on Machine Learning

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- 1 Introduction
- 2 Literature Review
- 3 Methods
- 4 Results
- 6 References

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- 2 Literature Review
- 3 Methods
- 4 Results
- 6 References

Title

Introduction

• This template can be used to approximate final page count for submission to Optica Publishing Groups journals Applied **Optics**

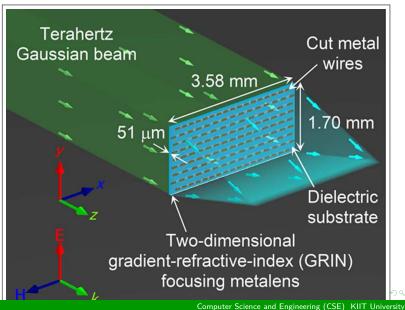
Title

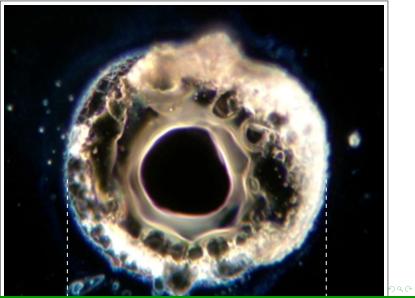
Introduction

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- In recent years, the use of machine learning techniques in various fields has revolutionized the way we approach complex problems. One area that has seen significant growth is the fitness industry, where personalized fitness apps using machine learning are becoming increasingly popular.

- 2 Literature Review

- 2 Literature Review Demo Figure





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- 3 Methods

Methods 000000

- 3 Methods Diffusion Model

• Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante.

Microsoft [®] Windows	Apple [®] Mac OS	
Windows-Kernel	Unix-like	
Arm, Intel	Intel, Apple Silicon	
Sudden update	Stable update	
Less security	More security	

11 / 20

Algorithms

Non-Numbering Formula

$$J(heta) = \mathbb{E}_{\pi_{ heta}}[G_t] = \sum_{s \in \mathcal{S}} d^\pi(s) V^\pi(s) = \sum_{s \in \mathcal{S}} d^\pi(s) \sum_{a \in \mathcal{A}} \pi_{ heta}(a|s) Q^\pi(s,a)$$

Multi-Row Formula¹

$$Q_{\text{target}} = r + \gamma Q^{\pi}(s', \pi_{\theta}(s') + \epsilon)$$

$$\epsilon \sim \text{clip}(\mathcal{N}(0, \sigma), -c, c)$$
(1)

¹If text appears in the formulause \mathrm{} or \text{} instead → ⟨≡⟩

Methods

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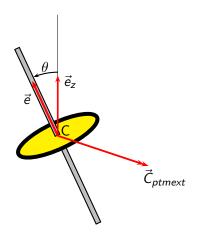
Numbered Multi-line Formula

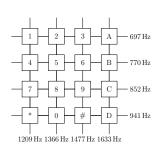
$$A = \lim_{n \to \infty} \Delta x \left(a^2 + \left(a^2 + 2a\Delta x + (\Delta x)^2 \right) + \left(a^2 + 2 \cdot 2a\Delta x + 2^2 (\Delta x)^2 \right) + \left(a^2 + 2 \cdot 3a\Delta x + 3^2 (\Delta x)^2 \right) + \dots + \left(a^2 + 2 \cdot (n-1)a\Delta x + (n-1)^2 (\Delta x)^2 \right) \right)$$

$$= \frac{1}{3} \left(b^3 - a^3 \right) \quad (2)$$



Methods ○○○○○●○





LATEX Common Commands

Commands

ackslashchapter	\setminus section	\subsection	\paragraph
chapter	section	sub-section	paragraph
\centering	\emph	\verb	\url
center	emphasize	original	hyperlink
\footnote	\item	\caption	\includegraphics
footnote	list item	caption	insert image
\label	\cite	\ref	
label	citation	refer	

Environment

table	figure	equation
table	figure	formula
itemize	enumerate	description
non-numbering item	numbering item	description



- 4 Results

- Content in the funding section will be generated entirely from details submitted to Prism. Authors may add placeholder text in the manuscript to assess length, but any text added to this section in the manuscript will be replaced during production and will display official funder names along with any grant.
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- 6 References

[1] M. Xu, "Ritsumeikan beamer theme," in How to write beautiful LATEX, 2022.

Thank You