From: **everymorning** fresh@stemem.info
Subject: Top3 Fresh STEM Papers
Date: February 3, 2026 at 10:41 PM
To: xodn348@gmail.com

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everymorning

Daily STEM Paper Digest

01

Self-adaptive physics-informed neural networks for solving the heat transfer problem in wet friction components of transmission system

Selected for: 43 citations in 2 days, published this week

- Researchers developed a self-adaptive physics-informed neural network to solve the he transfer problem in wet friction components.
- The proposed method achieved high accuracy and efficiency in predicting temperature distributions and heat fluxes.
- This approach has significant implications for improving the design and optimization of transmission systems in various engineering applications.

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Paper: Self-adaptive physics-informed neural networks for solving the heat
transfer problem in wet friction
(https://www.semanticscholar.org/paper/d42d11bfc303a4595bfc328adcb46cbed1377f
Field: Physics
Summary: • Researchers developed a self-adaptive physics-informed neural netw
to solve the heat transfer problem in wet friction components.
• The proposed method achieved high accuracy and efficiency in pr

Analyze key findings, how they connect to my research in [YOUR TOPIC], and
suggest novel research directions.
```

02

Navigating the quantum computing threat landscape for blockchains: A comprehensive survey

Selected for: 14 citations in 2 days, published this week

- The authors conducted a comprehensive survey of the quantum computing threat lands for blockchains, analyzing various quantum attack models and their potential impacts.

- The survey reveals that quantum computers can potentially break certain blockchain cryptographic primitives, compromising the security of blockchain networks.
- This research matters because it highlights the urgent need for blockchain developers to adopt quantum-resistant cryptographic techniques to ensure the long-term security and integrity of blockchain systems.

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Paper: Navigating the quantum computing threat landscape for blockchains: A
comprehensive survey
(https://www.semanticscholar.org/paper/4cb3cbdfc7b7b8ea802022291a4b5378c131a5
Field: Computer Science
Summary: • The authors conducted a comprehensive survey of the quantum comput
threat landscape for blockchains, analyzing various quantum attack models and
their potential impacts.
• The survey reveals that

Analyze key findings, how they connect to my research in [YOUR TOPIC], and
suggest novel research directions.
```

03

On the parameterized complexity of diverse SAT

Selected for: 7 citations in 2 days, published this week

- The authors investigated the parameterized complexity of diverse SAT using various techniques such as kernelization and treewidth.
- They found that diverse SAT is fixed-parameter tractable with respect to certain parame including the number of diverse solutions.
- This result matters because it sheds light on the computational complexity of finding div solutions to SAT instances, with implications for applications in AI and computer science

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Paper: On the parameterized complexity of diverse SAT
(https://www.semanticscholar.org/paper/1dd14020ea1dcf299f9742695463a9a2a1b888
Field: Computer Science
Summary: • The authors investigated the parameterized complexity of diverse S
using various techniques such as kernelization and treewidth.
• They found that diverse SAT is fixed-parameter tractable with res

Analyze key findings, how they connect to my research in [YOUR TOPIC], and
suggest novel research directions.
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