Jared Coleman

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https://www.jaredraycoleman.com

Summary

I have a broad interest in computer science. My research interests include blockchain, mobile robotics, discrete mathematics, computational geometry, game theory, graph theory, and distributed computing.

Education

University of Southern California — Los Angeles, CA
Ph.D. in Computer Science; GPA: 4.0 — *Aug 2020 – Present*

California State University, Long Beach — Long Beach, CA
Master of Science in Computer Science; GPA: 4.0 — *Aug 2018 – May 2020*

California State University, Long Beach — Long Beach, CA
Bachelor of Science in Computer Science; GPA: 3.6 — *Aug 2013 – May 2018*

Experience

The Aerospace Corporation — El Segundo, CA
Casual Member of the Technical Staff — *Aug 2020 – Present*
Member of the Technical Staff — *Mar 2020 – Aug 2020*
Associate Member of the Technical Staff — *Sep 2018 – Mar 2020*
Intern — *Jan 2018 – Aug 2018*

- Develops algorithms for optimizing data-processing pipelines to maximize time and resource efficiency.
- Helps build simulations for verifying flight software.
- Designs software that helps Aerospace rapidly develop scalable, modular, and efficient analyses for launch vehicle verification in simulation, day-of-launch, and post-flight environments.

CSULB Research Foundation — Long Beach, CA
Student Research Assistant — *Mar 2017 – May 2018*

- Developed software and simulations for systems of cooperative robots.

Publications

Robotic Sorting on the Grid
Jared Coleman, Oscar Morales-Ponce
To Appear at ICDCN 2022 - 23rd International Conference on Distributed Computing and Networking

Message Delivery in the Plane by Robots with Different Speeds
Jared Coleman, Evangelos Kranakis, Oscar Morales-Ponce, Danny Krizanc
To Appear at SSS 2021 - 23rd International Symposium on Stabilization, Safety, and Security of Distributed Systems

The Pony Express Communication Problem
Jared Coleman, Evangelos Kranakis, Oscar Morales-Ponce, Danny Krizanc
In Proceedings IWOCA 2021 - 32nd International Workshop on Combinatorial Algorithms

Minimizing The Maximum Distance Traveled To Form Patterns With Systems of Mobile Robots
In proceedings CCCG 2020, 32nd Canadian Conference on Computational Geometry, August 5-7, 2020
Jared Coleman, Evangelos Kranakis, Oscar Morales-Ponce, Jorge Urrutia, Birgit Vogtenhuber

Projects

Kubishi (https://kubishi.com) — 2020 – Present
An online dictionary and encyclopedia for Owens Valley Paiute language and culture

Aerocube @ The Beach — 2017
Distrubuted Robotics Systems for Space - A Proof of Concept