Materialized Views in a Distributed Event Stream Processing Environment

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[Suzanne W. Dietrich](#)
Principal Investigator
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Short Bio: Suzanne Dietrich is a Professor in the Applied Computing program within the School of Mathematical and Natural Sciences at Arizona State University. She has an established research foundation covering materialized view maintenance in various environments including active rules and event processing. These environments include relational extended with deductive and active rules as well as object-oriented databases. Her research has also included event-based application integration using rules. This research is investigating materialized view maintenance in a distributed event stream processing environment for optimizing enterprise applications.

Mahesh B. Chaudhari
Post-doctoral Research Associate and Ph.D. Student
Short Bio: Mahesh Chaudhari contributed to the project as a Ph.D. student in the School of Computing, Informatics, and Decision Systems Engineering and as a post-doctoral research associate in the School of Mathematical and Natural Sciences at ASU. His research interests are distributed databases, events and stream processing, data integration and query optimization. Mahesh was also a recipient of a Preparing Future Faculty Emeriti Fellowship for excellence in research, teaching & mentorship. Dr. Chaudhari is currently a senior software engineer at Zephyr Health Inc.

Jennifer Ortiz
Undergraduate Student
Short Bio: Jennifer's contributions to the project were as an undergraduate student in the Applied Computing program within the School of Mathematical and Natural Sciences. Jennifer assisted in various aspects of the project, including data and query design, events and streaming, and benchmarking. Jennifer's research was also funded by the New College Inquiry and Research Experience (NCUIRE) program. Jennifer Ortiz graduated with her Bachelor of Science in Spring 2012 as the Outstanding Graduate for the New College of Interdisciplinary Arts and Sciences. Jennifer is also the recipient of a prestigious National Science Foundation Graduate Fellowship and is pursuing a doctoral degree in computer science from the University of Washington.

Spencer Pearson
Undergraduate Student
Short Bio: Spencer contributed to the project as an undergraduate student in the Applied Computing program within the School of Mathematical and Natural Sciences. Spencer worked on the benchmark framework for performance evaluation and the recording of the performance measurements. Spencer graduated in the Spring of 2014 with his Bachelor of Science degree as part of Barrett, the Honors College at ASU.