

# Tech Transfer Stories and Takeaways

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## Abstract

In this talk, I will share impressions from several industrial research project experiences that reached production and became part of successful products. I will go through four stories of how these systems transpired and their journey to impact. All of the stories are in the distributed computing arena, and more specifically, they revolve around the state-machine-replication paradigm. Yet, I hope that the take-aways from the experience of building foundations for these systems may be of interest and value to everyone, no matter the discipline.

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## Brief Biography

Dahlia Malkhi is the Chief Technology Officer at Diem Association, Lead Maintainer of the Diem project, and Lead Researcher at Novi. She has applied and foundational research interests in broad aspects of reliability and security of distributed systems. For over two decades, she has driven innovation in tech, notably as co-inventor of HotStuff, co-founder and technical co-lead of VMware blockchain, co-inventor of Flexible Paxos, the technology behind Log Device, creator and tech lead of CorfuDB, a database-less database driving VMware's NSX-T distributed control plane, and co-inventor of the FairPlay project.

Dahlia Malkhi joined the Diem (Libra) team in June 2019, first as a Lead Reseacher at Novi and later as Chief Technology Officer at the Diem Association. In 2014, after the closing of the Microsoft Research Silicon Valley lab, she co-founded VMware Research and became a Principal Researcher at VMware until June 2019. From 2004-2014, Dahlia Malkhi was a principal researcher at Microsoft Research, Silicon Valley. From 1999-2007, she served as tenured associate professor at the Hebrew University of Jerusalem. From 1995-1999, she was a senior researcher at AT&T Labs, NJ. Dahlia Malkhi holds Ph.D., M.S. and B.S. degrees in computer science from the Hebrew University of Jerusalem.

**2012 ACM Subject Classification** Theory of computation → Distributed algorithms

**Keywords and phrases** Tech Transfer, Distributed Systems

**Digital Object Identifier** 10.4230/LIPIcs.DISC.2021.2

**Category** Invited Talk



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35th International Symposium on Distributed Computing (DISC 2021).

Editor: Seth Gilbert; Article No. 2; pp. 2:1–2:1

Leibniz International Proceedings in Informatics



LIPICs Schloss Dagstuhl – Leibniz-Zentrum für Informatik, Dagstuhl Publishing, Germany