

Reed Edward Devany Published Articles, Essays, Patents & Talks

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Patents

Reed, C. S., Murphy, D., Denny, R.R, Ives, M. R. & R. Devany (2020) US 10,893,003 “Method and Apparatus for Improved Data Transfer Between Processor Cores.” United States.

(Also granted as: CA 3,123,224; CN 13,383,516; EP 3,895,381)

Published Research & Articles

Devany, R (2022) “Military OR at the Operations Research Office/Research Analysis Corporation in the 1950s and 1960s.” *INFORMS History of O.E. Excellence*. Web Article.

(<https://www.informs.org/Explore/History-of-O.R.-Excellence/Non-Academic-Institutions/Operations-Research-Office-RAC>)

Devany, R (2022) “Operations Research and Management Science at Shell Oil Company in the 1950s-1980s.” *INFORMS History of O.E. Excellence*. Web Article.

(<https://www.informs.org/Explore/History-of-O.R.-Excellence/Non-Academic-Institutions/Shell-Oil-Co>)

Devany, R (2021) “Operations Research & Computers at IBM from the 1960s to 1990s.”

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Devany, R (2021) “The Institute for Defense Analyses: Advancing Operations Research and Mathematics for America’s Defense and Intelligence Communities.” *INFORMS History of O.E. Excellence*. Web Article.

(<https://www.informs.org/Explore/History-of-O.R.-Excellence/Institute-for-Defense-Analyses>)

Devany R. (2020) “20th Century Management Science at PPG.” *INFORMS History of O.R. Excellence*.

Web Article. (<https://www.informs.org/Explore/History-of-O.R.-Excellence/Non-Academic-Institutions/PPG>)

- Devany R. (2020) “History of OR/MS at American Airlines: Revenue Management, Crew Planning, Capacity Planning, and Aircraft Maintenance.” *INFORMS History of O.R. Excellence*. Web Article. (<https://www.informs.org/Explore/History-of-O.R.-Excellence/Non-Academic-Institutions/American-Airlines>)
- Devany R. (2020) “Operations Research at Bendix Corporation in the 1950s and 1960s.” *INFORMS History of O.E. Excellence*. Web Article. (<https://www.informs.org/Explore/History-of-O.R.-Excellence/Non-Academic-Institutions/Bendix-Aviation>)
- Devany R. (2020) “Operations Research and Management Science at P&G in the 20th Century.” *INFORMS History of O.R. Excellence*. Web Article. (<https://www.informs.org/Explore/History-of-O.R.-Excellence/Non-Academic-Institutions/Procter-and-Gamble>)
- Devany R. (2019) “Armour Research Foundation in the Mid-20th Century”. *INFORMS History of O.R. Excellence*. Web Article. (<https://www.informs.org/Explore/History-of-O.R.-Excellence/Non-Academic-Institutions/Armour-Research-Foundation-IITRI>)
- Devany R. (2019) “Booz Allen and the Development of Operations Research in the 1950s-1960s”. *INFORMS History of O.R. Excellence*. Web Article (<https://www.informs.org/Explore/History-of-O.R.-Excellence/Non-Academic-Institutions/Armour-Research-Foundation-IITRI>).
- Devany R. (2019) “RCA and the advancement of the OR/MS community in the late 1960s and 1970s.” *INFORMS History of O.R. Excellence*. Web Article. (<https://www.informs.org/Explore/History-of-O.R.-Excellence/Non-Academic-Institutions/RCA>)
- Devany R. (2019) “The national influence of OR/MS at Arthur Andersen in the 1950s and 1960s.” *INFORMS History of O.R. Excellence*. Web Article. (<https://www.informs.org/Explore/History-of-O.R.-Excellence/Non-Academic-Institutions/Arthur-Andersen-Co>)
- Betelu S. I., Reed C.S., et. al (2018) “Data Vortex Network: An Overview of the Architecture, Implementation and Performance.” White Paper. September. Data Vortex Technologies: Austin, Texas.

Devany R. (2018) Coke Reed & the Data Vortex. *HPCwire*, Jan. 15. Web Article
(<https://www.hpcwire.com/2018/01/15/coke-reed-data-vortex-brief-history/>)

Devany R. E. (2015) “Shadow of the Colossus: Operation of the First Electronic Computer.” *This Week in Diplomatic and Military History*, February 2. Clements Center for History Strategy & Statecraft: Austin, Texas.

Devany R. E. (2015) “Denniston and Friedman: The Birth of UK/USA Signals Intelligence Cooperation.” Presented Paper. March 7. Phi Alpha Theta 2015 Central-West Texas Regional History Conference: Austin, Texas.

Recent Talks

Devany, R.E., Reed, C.S., Betelu, S. I., & M. Ives (2020, March 25) “The Data Vortex: From Interbellum Polish Mathematics to a Novel Topology for Connecting Cores.” Paper Presented at Supercomputing Frontiers Europe 2020, Warsaw, Poland.
(<https://www.youtube.com/watch?v=1jnd5YxUk64>)

Devany, R.E. (2019, March 4) “BoF: The Importance of Male Allies.” Panel Participation at the 2019 Rice Oil & Gas in HPC Conference, Houston, Texas.

Additional profiles and press releases published in *HPCwire*, *InsideHPC*, and *Enterprise AI* (2017-20)