



# Christophe Diot

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## Data science research in aerospace industry

### ABSTRACT

Safran is an international leader in the aerospace industry, mainly with its CFM 56 engine (built in a JV with GE) that equips a large part of the narrow body commercial aircrafts. Safran is also building landing gears, wiring, nacelles, and electronic equipments for aircrafts. Data opportunities are huge in this industry, and almost untouched. We will describe the range of problems that can be addressed with data, present the Safran initiatives in this area and the problems with accessing data, and finally discuss the leading challenge for all researchers in this industry: the digital twin.

### BIOGRAPHY

Christophe Diot received a Ph.D. degree in Computer Science from INP Grenoble in 1991. With INRIA Sophia-Antipolis (1993-1998), Diot pioneered diffserv, single source multicast, and peer-to-peer online games. At Sprint (1998-2003), he pioneered Internet measurements. Diot was with Intel Research in Cambridge UK from 2003 to 2005, where he made seminal contributions on anomaly detection and opportunistic communication. At Thomson/Technicolor (2005-2015), he launched two research labs in Paris and Palo Alto (with major contribution on privacy, recommendation, and content delivery architectures) before serving as the Technicolor Chief Scientist. Diot joined SAFRAN in 2015 as the CTO of Safran Analytics, where he is in charge of building big data platforms and developing analytics solution for the Safran Group. He has around 40 patents and more than 300 publications in major conferences and journals, and is an ACM fellow



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