

Handbook of Dynamic Data Driven Applications Systems

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Editors

Handbook of Dynamic Data Driven Applications Systems

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Frederica Darema retired as Senior Executive Service (SES) member and director of the Air Force Office of Scientific Research, Arlington, Virginia, where she led the entire basic research investment for the AF and served as research director in the Air Force's Chief Data Office, and as associate deputy assistant secretary at the Air Force Office for Science, Technology and Engineering. Prior career history includes: research staff positions at the University of Pittsburgh, Brookhaven National Laboratory, and Schlumberger-Doll; management and executive-level positions at the T. J. Watson IBM Research Center and the IBM Corporate Strategy Group, the National Science Foundation, and the Defense Advanced Research Projects Agency; and director of the AFOSR Directorate for Information, Math, and Life Sciences. Dr. Darema, PhD in nuclear physics, is a fellow of the Institute of Electrical and Electronics Engineers (IEEE), among other professional recognitions. She pioneered the DDDAS paradigm, and since 2000, she has organized and led research initiatives, programs, workshops, conferences, and other forums to foster and promote DDDAS-based science and technology advances.

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Alex J. Aved is a senior researcher with the Air Force Research Laboratory, Information Directorate, Rome, NY, USA. His research interests include multimedia databases, stream processing (via CPU, GPU, or coprocessor), and dynamically executing models with feedback loops incorporating measurement and error data to improve the accuracy of the model. He has published over 50 papers and given numerous invited lectures. Previously, he was a programmer at the University of Central Florida and database administrator and programmer at Anderson University.