

Stanford



Walter Murray

Professor (Research) of Management Science and Engineering, Emeritus

Bio

BIO

Professor Murray's research interests include numerical optimization, numerical linear algebra, sparse matrix methods, optimization software and applications of optimization. He has authored two books (Practical Optimization and Optimization and Numerical Linear Algebra) and over eighty papers. In addition to his University work he has extensive consulting experience with industry, government, and commerce.

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Management Science and Engineering
- Member, Institute for Computational and Mathematical Engineering (ICME)

PROFESSIONAL EDUCATION

- PhD, London University (1969)

Publications

PUBLICATIONS

- **A local relaxation method for the cardinality constrained portfolio optimization problem** *COMPUTATIONAL OPTIMIZATION AND APPLICATIONS*
Murray, W., Shek, H.
2012; 53 (3): 681-709
- **Measurement of the jet fragmentation function and transverse profile in proton-proton collisions at a center-of-mass energy of 7 TeV with the ATLAS detector** *EUROPEAN PHYSICAL JOURNAL C*
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- **Charged-particle multiplicities in pp interactions measured with the ATLAS detector at the LHC** *NEW JOURNAL OF PHYSICS*
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- **Readiness of the ATLAS Tile Calorimeter for LHC collisions** *EUROPEAN PHYSICAL JOURNAL C*
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- **Search for New Particles in Two-Jet Final States in 7 TeV Proton-Proton Collisions with the ATLAS Detector at the LHC** *PHYSICAL REVIEW LETTERS*
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- **An algorithm for nonlinear optimization problems with binary variables** *COMPUTATIONAL OPTIMIZATION AND APPLICATIONS*
Murray, W., Ng, K.
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- **Charged-particle multiplicities in pp interactions at root s=900 GeV measured with the ATLAS detector at the LHC** *ATLAS Collaboration PHYSICS LETTERS B*
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LaRoque, E. S., Murray, W. M., Langley, S., Hariri, S., Levine, B. P., Ladd, A. L.
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- **The ATLAS Experiment at the CERN Large Hadron Collider** *JOURNAL OF INSTRUMENTATION*
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- **George B. Dantzig and systems optimization** *DISCRETE OPTIMIZATION*
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- **A local relaxation approach for the siting of electrical substation** *COMPUTATIONAL OPTIMIZATION AND APPLICATIONS*
Murray, W., Shanbhag, U. V.
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- **Design and control of libration point spacecraft formations** *AIAA Guidance, Navigation and Control Conference*
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- **The effect of percutaneous pin fixation of the interphalangeal joint on the thumb-tip force produced by the flexor pollicis longus: A Cadaver study** *JOURNAL OF HAND SURGERY-AMERICAN VOLUME*
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