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··· **author #2:** Schaible, Siegfried

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··· **author #2:** Schaible, Siegfried

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··· **author #2:** Schaible, Siegfried

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Encyclopedia of Optimization, 2nd ed.

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first author: Hettich, Rainer
··· author #2: Kaplan, Alexander
··· author #3: Tichatschke, Rainer

| Semi-infinite programming: second order optimality conditions | Entry | 00652 | *586/586* |

first author: Hettich, Rainer
··· author #2: Still, Georg

| Semidefinite programming and determinant maximization | Entry | 00654 | *587/587* |

first author: Vandenberghe, Lieven
··· author #2: Boyd, Stephen
··· author #3: Wu, Shao-Po

| Semidefinite programming and structural optimization | Entry | 00655 | *588/588* |

first author: Ben-Tal, Aharon
··· author #2: Nemirovskii, Arkadii
··· author #3: Zowe, Jochem

| Semidefinite Programming and the Sensor Network Localization Problem, SNLP | Entry | 00148 | *589/589* |

first author: Commander, Clayton W.
··· author #2: Ragle, Michelle A.
··· author #3: Ye, Yinyu

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first author: Shapiro, Alexander			
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first author: Kyparisis, George J.			
Sensitivity analysis of variational inequality problems	*Entry*	00658	*592/592*
first author: Kyparisis, George J.			
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first author: Fiacco, A. V.			
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first author: Fiacco, A. V.			
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first author: Fiacco, A. V.			
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first author: Still, Claus			
⋯ author #2: Westerlund, Tapio			
Sequential quadratic programming: interior point methods for distributed optimal control problems	*Entry*	00662	*597/597*
first author: Heinkenschloss, Matthias			
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first author: Vassiliadis, Vassilios S.			
⋯ author #2: Conejeros, Raul			
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first author: Hoffman, Karla L.			
⋯ author #2: Padberg, Manfred			
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first author: Jahn, Johannes			
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first author: Haslinger, Jaroslav			
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first author: Banerjee, Ipsita			
⋯ author #2: Ierapetritou, Marianthi			
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first author: Gounaris, Chrysanthos E.			
⋯ author #2: Wei, James			
⋯ author #3: Floudas, Christodoulos A.			
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first author: Kammerdiner, Alla R.			
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first author: Janak, Stacy L.			
⋯ author #2: Floudas, Christodoulos A.			
Short-term scheduling of continuous processes	*Entry*	00155	*606/606*
first author: Shaik, Munawar A.			
⋯ author #2: Floudas, Christodoulos A.			
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first author: Jia, Zhenya			
⋯ author #2: Ierapetritou, Marianthi			
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first author: Shaik, Munawar A.			
⋯ author #2: Floudas, Christodoulos A.			

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Shortest path tree algorithms
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first author: Festa, Paola

Signal processing with higher order statistics
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first author: Hatzinakos, Dimitrios

Simple recourse problem
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first author: Dye, Shane

Simple recourse problem: dual method
Entry 00670 *612/612*

first author: Dye, Shane

Simple recourse problem: primal method
Entry 00671 *613/613*

first author: Dye, Shane

Simplicial decomposition
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first author: Lawphongpanich, Siriphong

Simplicial decomposition algorithms
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first author: Patriksson, Michael

Simplicial pivoting algorithms for integer programming
Entry 00674 *616/616*

first author: van Maaren, Hans

Simulated annealing
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first author: Pardalos, Panos M.
⋯ author #2: Mavridou, Thelma D.

Simulated annealing methods in protein folding
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first author: Andricioaei, Ioan
⋯ author #2: Straub, John E.

Simultaneous Estimation and Optimization of nonlinear problems
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first author: Di Giacomo, Laura
⋯ author #2: Patrizi, Giacomo

Single facility location: circle covering problem
Entry 00677 *620/620*

first author: Hearn, Donald W.

Single facility location: multi-objective euclidean distance location
Entry 00678 *621/621*

first author: Ierapetritou, Marianthi

Single facility location: multi-objective rectilinear distance location
Entry 00679 *622/622*

first author: Ierapetritou, Marianthi

Smooth nonlinear nonconvex optimization
Entry 00680 *623/623*

first author: Rapcsák, Tamás

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first author: Jongen, Hubertus Th.
⋯ author #2: Stein, Oliver

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first author: Konnov, Igor V.

Solving hemivariational inequalities by nonsmooth optimization methods
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first author: Miettinen, Markku
⋯ author #2: Mäkelä, Marko M.

Solving large scale and sparse semidefinite programs
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first author: Ye, Yinyu

Spatial price equilibrium
Entry 00683 *628/628*

first author: Nagurney, Anna

Spectral Projected Gradient Methods
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first author: Birgin, Ernesto G.
⋯ author #2: Martínez, J. M.
⋯ author #3: Raydan, Marcos

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first author: Tseng, Paul			
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first author: Liu, Wenbin			
⋯ author #2: Sirlantzis, K.			
SSC minimization algorithms for nonsmooth and stochastic optimization	*Entry*	00686	*632/632*
first author: Liu, Wenbin			
⋯ author #2: Feng, F. J.			
Stabilization of cutting plane algorithms for stochastic linear programming problems	*Entry*	00687	*633/633*
first author: Sen, Suvrajeet			
⋯ author #2: Higle, Julia L.			
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first author: Rebennack, Steffen			
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first author: Bomze, Immanuel M.			
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⋯ author #2: Eksioglu, Burak			
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first author: Du, Ding-Zhu			
⋯ author #2: Lu, Bing			
⋯ author #3: Ngo, Hung Q.			
⋯ author #4: Pardalos, Panos M.			
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first author: Schoen, Fabio			
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first author: Schultz, Rüdiger			

| Stochastic integer programs | Entry | 00699 | *650/650* |

first author: Louveaux, Francois
··· author #2: Birge, John R.

| Stochastic linear programming: decomposition and cutting planes | Entry | 00700 | *651/651* |

first author: Higle, Julia L.
··· author #2: Sen, Suvrajeet

| Stochastic linear programs with recourse and arbitrary multivariate distributions | Entry | 00701 | *652/652* |

first author: Frauendorfer, Karl
··· author #2: Schürle, Michael

| Stochastic network problems: massively parallel solution | Entry | 00702 | *653/653* |

first author: Nielsen, Søren S.

| Stochastic Optimal Stopping: Numerical Methods | Entry | 00187 | *654/654* |

first author: AitSahlia, Farid

| Stochastic Optimal Stopping: Problem Formulations | Entry | 00186 | *655/655* |

first author: AitSahlia, Farid

| Stochastic programming models: random objective | Entry | 00704 | *656/656* |

first author: Prékopa, András

| Stochastic programming with simple integer recourse | Entry | 00707 | *657/657* |

first author: van der Vlerk, Maarten H.

| Stochastic programming: minimax approach | Entry | 00703 | *658/658* |

first author: Dupa?ová, Jitka

| Stochastic programming: nonanticipativity and lagrange multipliers | Entry | 00705 | *659/659* |

first author: Evstigneev, Igor V.
··· author #2: Flam, Sjur Didrik

| Stochastic programming: Parallel factorization of structured matrices | Entry | 00706 | *660/660* |

first author: Vladimirou, Hercules
··· author #2: Zenios, Stavros A.

| Stochastic programs with recourse: upper bounds | Entry | 00708 | *661/661* |

first author: Wallace, Stein W.
··· author #2: Edirisinghe, Chanaka

| Stochastic quasigradient methods | Entry | 00709 | *662/662* |

first author: Ermoliev, Yuri

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first author: Ermoliev, Yuri

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first author: Ermoliev, Yuri

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first author: Niño-Mora, José

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first author: Holmberg, Kaj

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first author: Louveaux, Francois
··· author #2: Laporte, Gilbert

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first author: Svanberg, Krister

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first author: Haftka, Raphael T.
··· author #2: Sobieszczanski-Sobieski, Jaroslaw

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first author: Luus, Rein			
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first author: Lucia, Angelo			
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first author: Lucia, Angelo			
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first author: Alkaya, Dilek			
··· author #2: Vasantharajan, Sriram			
··· author #3: Biegler, L.T.			
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first author: Lucia, Angelo			
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first author: Lucia, Angelo			
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first author: Lucia, Angelo			
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first author: Capar, Ismail			
··· author #2: Eksioglu, Burak			
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first author: Isac, George			
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first author: Jongen, Hubertus Th.			
··· author #2: Jhones, Alina Ruiz			
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first author: Bendsoe, Martin P.			
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first author: Nagurney, Anna			
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first author: Mammadov, Musa			

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first author: Ermoliev, Yuri			
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first author: Louveaux, Francois			
⋯ author #2: Birge, John R.			
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⋯ author #2: Rassias, Themistocles M.			
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first author: Marinaki, Magdalene			

Young programming   *Entry*   00752   711/711

    first author: KAS, PÉTER
⋯ **author #2:** KLAFSZKY, EMIL
⋯ **author #3:** MÁLYUSZ, LEVENTE
⋯ **author #4:** IZBIRAK, GÖKHAN K.