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Biography

Armagan Tarim is a Full Professor and the Chair of Business Analytics at Hacettepe University in Turkey. He also serves as the Vice President for Research and Innovation and as the Director of the Institute of Informatics at the same institution.

Professor Tarim received his Ph.D. in Operational Research from Lancaster University, UK.

He has previously worked in the Department of Computer Science and as a member of the Artificial Intelligence Group at the University of York, the University of Nottingham Business School, University College Cork's Cork Constraint Computation Centre, the INSIGHT Centre for Data Analytics, and the Business School at UCC.

He has also served as the Dean of the Graduate School of Social Sciences and the Director of the Institute of Population Studies at Hacettepe University. Additionally, he has been a member of the Board of Directors of the Scientific and Technological Research Council of Turkey's Humanities and Social Sciences Group, Chief Advisor to the President of the Turkish Court of Accounts, and an executive committee member of the SMEs Development Organisation of Turkey.

Professor Tarim has secured over €5 million in research funding as a Principal Investigator. His research has been supported by research councils, universities, various ministries and government agencies, and industries such as electric power generation and distribution, healthcare, hospitality, telecommunications, banking, oil, and transportation, among others.

Professor Tarim's current research interests include business analytics, artificial intelligence and machine learning (AI/ML), stochastic modeling, production and inventory systems, and supply chain management.

Education:

- Ph.D. in Operational Research, Lancaster University (1992-1996)
- M.Sc. in Management Science, Hacettepe University (1989-1991)
- B.Sc. in Electronics Engineering, Middle East Technical University (1985-1989)
- Ankara Fen Lisesi (1982-1985)
- Ankara Atatürk Anadolu Lisesi (1978-1982)
- TED Ankara Koleji (1973-1978)

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Education Information

Doctorate, University of Lancaster, Business School, Operations Research, United Kingdom 1992 - 1996
Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 1985 - 1989

Research Areas

Artificial Intelligence, Computer Learning and Pattern Recognition, Uncertainty Management, Stochastic Modeling, Optimization Theory and Methods, Production Planning and Control, Decision Theory, Supply Chain and Logistics Management

Academic Titles / Tasks

Professor, Hacettepe University, Bilişim Enstitüsü, Bilişim Sistemleri A.B.D., 2023 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A simple heuristic for computing non-stationary inventory policies based on function approximation**
Kilic O. A., TARIM Ş. A.
European Journal of Operational Research, vol.316, no.3, pp.899-905, 2024 (SCI-Expanded)
- II. **Simple heuristics for the joint inventory and pricing models with fixed replenishment costs**
Gurkan M. E., Tunc H., TARIM Ş. A.
JOURNAL OF THE OPERATIONAL RESEARCH SOCIETY, 2024 (SCI-Expanded)
- III. **An IRP model to improve the sustainability of cold food supply chains under stochastic demand**
Jahdi S., Gulecyuz S., O'Reilly S., O'Sullivan B., TARIM Ş. A.
JOURNAL OF CLEANER PRODUCTION, 2024 (SCI-Expanded)
- IV. **On the stochastic inventory problem under order capacity constraints**
Rossi R., Chen Z., TARIM Ş. A.
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- V. **Stochastic dynamic programming heuristic for the (R,s,S) policy parameters computation**
Visentin A., Prestwich S., Rossi R., TARIM Ş. A.
Computers and Operations Research, vol.158, 2023 (SCI-Expanded)
- VI. **A mathematical programming-based solution method for the nonstationary inventory problem under correlated demand**
Xiang M., Rossi R., Martin-Barragan B., TARIM Ş. A.
European Journal of Operational Research, vol.304, no.2, pp.515-524, 2023 (SCI-Expanded)
- VII. **The joint stochastic lot sizing and pricing problem**
Gurkan M. E., Tunc H., TARIM Ş. A.
Omega (United Kingdom), vol.108, 2022 (SCI-Expanded)
- VIII. **A simulated annealing algorithm for joint stratification and sample allocation**
O'Luing M., Prestwich S., TARIM Ş. A.
Survey Methodology, vol.48, no.1, pp.225-249, 2022 (SCI-Expanded)
- IX. **Dynamic pricing with demand disaggregation for hotel revenue management**
Bandalouski A. M., Egorova N. G., Kovalyov M. Y., Pesch E., TARIM Ş. A.

Journal of Heuristics, vol.27, no.5, pp.869-885, 2021 (SCI-Expanded)

- X. **Computing optimal (R,s,S) policy parameters by a hybrid of branch-and-bound and stochastic dynamic programming**
Visentin A., Prestwich S., Rossi R., TARIM Ş. A.
European Journal of Operational Research, vol.294, no.1, pp.91-99, 2021 (SCI-Expanded)
- XI. **Intermittency and obsolescence: A Croston method with linear decay**
Prestwich S., TARIM Ş. A., Rossi R.
International Journal of Forecasting, vol.37, no.2, pp.708-715, 2021 (SSCI)
- XII. **The benefit of receding horizon control: Near-optimal policies for stochastic inventory control**
Dural-Selcuk G., Rossi R., Kilic O. A., TARIM Ş. A.
Omega (United Kingdom), vol.97, 2020 (SCI-Expanded)
- XIII. **Algorithme génétique de regroupement pour la stratification et la répartition simultanée de l'échantillon dans les plans de sondage**
O'luing M., Prestwich S., TARIM Ş. A.
Survey Methodology, vol.45, no.3, pp.549-568, 2019 (SCI-Expanded)
- XIV. **An integrated economy-demography model reframed in a system dynamics setting**
Dural-Selcuk G., Tunc H., TARIM Ş. A.
System Dynamics Review, vol.35, no.4, pp.337-368, 2019 (SSCI)
- XV. **Computing non-stationary (s, S) policies using mixed integer linear programming**
Xiang M., Rossi R., Martin-Barragan B., TARIM Ş. A.
European Journal of Operational Research, vol.271, no.2, pp.490-500, 2018 (SCI-Expanded)
- XVI. **Heuristic policies for the stochastic economic lot sizing problem with remanufacturing under service level constraints**
KILIC O. A., TUNÇ H., Tarim Ş. A.
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.267, no.3, pp.1102-1109, 2018 (SCI-Expanded)
- XVII. **An Extended Mixed-Integer Programming Formulation and Dynamic Cut Generation Approach for the Stochastic Lot-Sizing Problem**
TUNÇ H., KILIC O. A., Tarim Ş. A., Rossi R.
INFORMS JOURNAL ON COMPUTING, vol.30, no.3, pp.492-506, 2018 (SCI-Expanded)
- XVIII. **A new causal discovery heuristic**
Prestwich S. D., Tarim Ş. A., Ozkan I.
ANNALS OF MATHEMATICS AND ARTIFICIAL INTELLIGENCE, vol.82, no.4, pp.245-259, 2018 (SCI-Expanded)
- XIX. **The stochastic lot sizing problem with piecewise linear concave ordering costs**
TUNÇ H., Kilic O. A., Tarim Ş. A., Eksioğlu B.
COMPUTERS & OPERATIONS RESEARCH, vol.65, pp.104-110, 2016 (SCI-Expanded)
- XX. **Confidence-based reasoning in stochastic constraint programming**
Rossi R., Hnich B., TARIM Ş. A., Prestwich S.
Artificial Intelligence, vol.228, pp.129-152, 2015 (SCI-Expanded)
- XXI. **Hybrid metaheuristics for stochastic constraint programming**
Prestwich S. D., Tarim Ş. A., Rossi R., Hnich B.
CONSTRAINTS, vol.20, no.1, pp.57-76, 2015 (SCI-Expanded)
- XXII. **Piecewise linear approximations for the static-dynamic uncertainty strategy in stochastic lot-sizing**
Rossi R., Kilic O. A., Tarim Ş. A.
OMEGA-INTERNATIONAL JOURNAL OF MANAGEMENT SCIENCE, vol.50, pp.126-140, 2015 (SCI-Expanded)
- XXIII. **Confidence-based optimisation for the newsvendor problem under binomial, Poisson and exponential demand**
Rossi R., Prestwich S., TARIM Ş. A., HNİCH B.
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.239, no.3, pp.674-684, 2014 (SCI-Expanded)
- XXIV. **Mean-based error measures for intermittent demand forecasting**
Prestwich S., Rossi R., TARIM Ş. A., HNİCH B.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.52, no.22, pp.6782-6791, 2014 (SCI-Expanded)

- XXV. **Forecasting intermittent demand by hyperbolic-exponential smoothing**
Prestwich S. D., Tarim Ş. A., Rossi R., Hnich B.
INTERNATIONAL JOURNAL OF FORECASTING, vol.30, no.4, pp.928-933, 2014 (SSCI)
- XXVI. **A reformulation for the stochastic lot sizing problem with service-level constraints**
TUNÇ H., Kilic O. A. p., Tarim Ş. A., Eksioğlu B.
OPERATIONS RESEARCH LETTERS, vol.42, no.2, pp.161-165, 2014 (SCI-Expanded)
- XXVII. **Piecewise linear lower and upper bounds for the standard normal first order loss function**
Rossi R., TARIM Ş. A., Prestwich S., HNIÇH B.
APPLIED MATHEMATICS AND COMPUTATION, vol.231, pp.489-502, 2014 (SCI-Expanded)
- XXVIII. **Exact and approximate solutions for fulfilment metrics in open pipeline order fulfilment systems**
MacCarthy B. L., Ovtutmen T., TARIM Ş. A., Brabazon P. G.
IMA JOURNAL OF MANAGEMENT MATHEMATICS, vol.24, no.4, pp.381-405, 2013 (SCI-Expanded)
- XXIX. **A simple approach for assessing the cost of system nervousness**
Tunc H., KILIC O. A., TARIM Ş. A., Eksioğlu B.
INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, vol.141, no.2, pp.619-625, 2013 (SCI-Expanded)
- XXX. **Constraint-Based Local Search for Inventory Control Under Stochastic Demand and Lead Time**
Rossi R., TARIM Ş. A., Bollapragada R.
INFORMS JOURNAL ON COMPUTING, vol.24, no.1, pp.66-80, 2012 (SCI-Expanded)
- XXXI. **Filtering algorithms for global chance constraints**
HNIÇH B., Rossi R., TARIM Ş. A., Prestwich S.
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- XXXII. **Static-dynamic uncertainty strategy for a single-item stochastic inventory control problem**
Ozen U., Dogru M. K., TARIM Ş. A.
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- XXXIII. **Constraint programming for stochastic inventory systems under shortage cost**
Rossi R., TARIM Ş. A., HNIÇH B., Prestwich S.
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- XXXIV. **Partial symmetry breaking by local search in the group**
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- XXXV. **A neuroevolutionary approach to stochastic inventory control in multi-echelon systems**
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- XXXVI. **An efficient computational method for a stochastic dynamic lot-sizing problem under service-level constraints**
TARIM Ş. A., Dogru M. K., Oezen U., Rossi R.
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.215, no.3, pp.563-571, 2011 (SCI-Expanded)
- XXXVII. **A state space augmentation algorithm for the replenishment cycle inventory policy**
Rossi R., TARIM Ş. A., HNIÇH B., Prestwich S.
INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, vol.133, no.1, pp.377-384, 2011 (SCI-Expanded)
- XXXVIII. **An investigation of setup instability in non-stationary stochastic inventory systems**
Kilic O. A., TARIM Ş. A.
INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, vol.133, no.1, pp.286-292, 2011 (SCI-Expanded)
- XXXIX. **The cost of using stationary inventory policies when demand is non-stationary**
Tunc H., KILIC O. A., TARIM Ş. A., Eksioğlu B.
OMEGA-INTERNATIONAL JOURNAL OF MANAGEMENT SCIENCE, vol.39, no.4, pp.410-415, 2011 (SCI-Expanded)
- XL. **A Survey on CP-AI-OR Hybrids for Decision Making Under Uncertainty**
HNIÇH B., Rossi R., TARIM Ş. A., Prestwich S.
HYBRID OPTIMIZATION: THE TEN YEARS OF CPAIOR, vol.45, pp.227-270, 2011 (SCI-Expanded)
- XLI. **Computing the non-stationary replenishment cycle inventory policy under stochastic supplier lead-times**

- Rossi R., TARIM Ş. A., HNÍCH B., Prestwich S.
INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, vol.127, no.1, pp.180-189, 2010 (SCI-Expanded)
- XLII. **Order acceptance in food processing systems with random raw material requirements**
Kilic O. A., van Donk D. P., Wijngaard J., TARIM Ş. A.
OR SPECTRUM, vol.32, no.4, pp.905-925, 2010 (SCI-Expanded)
- XLIII. **Scheduling internal audit activities: a stochastic combinatorial optimization problem**
Rossi R., TARIM Ş. A., HNÍCH B., Prestwich S., KARACAER S.
JOURNAL OF COMBINATORIAL OPTIMIZATION, vol.19, no.3, pp.325-346, 2010 (SCI-Expanded)
- XLIV. **A note on Liu-Iwamura's dependent-chance programming**
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EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.198, no.3, pp.983-986, 2009 (SCI-Expanded)
- XLV. **Finding reliable solutions: event-driven probabilistic constraint programming**
TARIM Ş. A., HNÍCH B., Prestwich S., Rossi R.
ANNALS OF OPERATIONS RESEARCH, vol.171, no.1, pp.77-99, 2009 (SCI-Expanded)
- XLVI. **Cost-Based Filtering Techniques for Stochastic Inventory Control Under Service Level Constraints**
TARIM Ş. A., HNÍCH B., Rossi R., Prestwich S.
CONSTRAINTS, vol.14, no.2, pp.137-176, 2009 (SCI-Expanded)
- XLVII. **An efficient MIP model for the capacitated lot-sizing and scheduling problem with sequence-dependent setups**
Kovacs A., Brown K. N., TARIM Ş. A.
INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, vol.118, no.1, pp.282-291, 2009 (SCI-Expanded)
- XLVIII. **A global chance-constraint for stochastic inventory systems under service level constraints**
Rossi R., TARIM Ş. A., HNÍCH B., Prestwich S.
CONSTRAINTS, vol.13, no.4, pp.490-517, 2008 (SCI-Expanded)
- XLIX. **Learning market prices in real-time supply chain management**
Burke D. A., Brown K. N., Tarim Ş. A., HNÍCH B.
COMPUTERS & OPERATIONS RESEARCH, vol.35, no.11, pp.3465-3478, 2008 (SCI-Expanded)
- L. **A multi-objective stochastic programming approach for supply chain design considering risk**
Azaron A., Brown K. N., Tarim Ş. A., Modarres M.
INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, vol.116, no.1, pp.129-138, 2008 (SCI-Expanded)
- LI. **Constraint programming for computing non-stationary (R, S) inventory policies**
TARIM Ş. A., Smith B. M.
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.189, no.3, pp.1004-1021, 2008 (SCI-Expanded)
- LII. **Search in the patience game 'Black Hole'**
Gent I. P., Jefferson C., Kelsey T., Lynce I., Miguel I., Nightingale P., Smith B. M., TARIM Ş. A.
AI Communications, vol.20, no.3, pp.211-226, 2007 (SCI-Expanded)
- LIII. **Template design under demand uncertainty by integer linear local search**
Prestwich S., TARIM Ş. A., Hnich B.
International Journal of Production Research, vol.44, no.22, pp.4915-4928, 2006 (SCI-Expanded)
- LIV. **Modelling and computing (Rn, Sn) policies for inventory systems with non-stationary stochastic demand**
TARIM Ş. A., Kingsman B. G.
European Journal of Operational Research, vol.174, no.1, pp.581-599, 2006 (SCI-Expanded)
- LV. **Modelling and solving English Peg Solitaire**
Jefferson C., Miguel A., Miguel I., Tarim Ş. A.
COMPUTERS & OPERATIONS RESEARCH, vol.33, no.10, pp.2935-2959, 2006 (SCI-Expanded)
- LVI. **Stochastic constraint programming: A scenario-based approach**
TARIM Ş. A., Manandhar S., Walsh T.
Constraints, vol.11, no.1, pp.53-80, 2006 (SCI-Expanded)
- LVII. **The stochastic dynamic production/inventory lot-sizing problem with service-level constraints**
TARIM Ş. A., Kingsman B. G.

International Journal of Production Economics, vol.88, no.1, pp.105-119, 2004 (SCI-Expanded)

LVIII. Echelon stock formulation of arborescent distribution systems: An application to the Wagner-Whitin problem

TARIM Ş. A., Miguel I.

Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), vol.3011, pp.302-318, 2004 (SCI-Expanded)

LIX. Investment fund performance measurement using weight-restricted data envelopment analysis: An application to the Turkish capital market

Tarim Ş. A., KARAN M. B.

Russian and East European Finance and Trade, vol.37, no.5, pp.64-84, 2001 (SSCI)

Articles Published in Other Journals

I. An overview of revenue management and dynamic pricing models in hotel business

Bandalouski A. M., Kovalyov M. Y., Pesch E., TARIM Ş. A.

RAIRO - Operations Research, vol.52, no.1, pp.119-141, 2018 (Scopus)

II. Efficiency measurement in the hotel industry: Output factor constrained DEA application

Tarim Ş., Dener H. I., TARIM Ş. A.

Anatolia, vol.11, no.2, pp.111-123, 2000 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

I. Towards transformative analytics for palliative care

Kupper M., Kiely F., TARIM Ş. A., Heavin C.

26th Americas Conference on Information Systems, AMCIS 2020, Utah, United States Of America, 10 - 14 August 2020

II. Modelling Dynamic Programming-Based Global Constraints in Constraint Programming

Visentin A., Prestwich S. D., Rossi R., TARIM Ş. A.

6th World Congress on Global Optimization, WCGO 2019, Metz, France, 8 - 10 July 2019, vol.991, pp.417-427

III. Robust principal component analysis by reverse iterative linear programming

Visentin A., Prestwich S., TARIM Ş. A.

15th European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, ECML PKDD 2016, Riva del Garda, Italy, 19 - 23 September 2016, vol.9852 LNAI, pp.593-605

IV. Causal discovery by randomness test

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2016 International Symposium on Artificial Intelligence and Mathematics, ISAIM 2016, Florida, United States Of America, 4 - 06 January 2016

V. Randomness as a constraint

Prestwich S. D., Rossi R., TARIM Ş. A.

21st International Conference on the Principles and Practice of Constraint Programming, CP 2015, Cork, Ireland, 31 August - 04 September 2015, vol.9255, pp.351-366

VI. Statistical Constraints

Rossi R., Prestwich S., TARIM Ş. A.

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VII. Stochastic linear systems under control constraints: A supply chain planning tool

TARIM Ş. A.

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- VIII. **Finding (α, ν) -solutions via sampled SCSPs**
 Rossi R., Hnich B., TARIM Ş. A., Prestwich S.
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- IX. **Computing replenishment cycle policy parameters for a perishable item***
 Rossi R., TARIM Ş. A., Hnich B., Prestwich S. D.
 24th Mini EURO Conference on Continuous Optimization and Information-Based Technologies in the Financial Sector, MEC EuroOPT 2010, İzmir, Turkey, 23 - 26 June 2010, pp.241-247
- X. **Stochastic Constraint Programming by Neuroevolution with Filtering**
 Prestwich S. D., TARIM Ş. A., Rossi R., HNIÇH B.
 7th International Conference Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, Bologna, Italy, 14 - 18 June 2010, vol.6140, pp.282-283
- XI. **Neuroevolutionary inventory control in multi-echelon systems**
 Prestwich S. D., TARIM Ş. A., Rossi R., Hnich B.
 1st International Conference on Algorithmic Decision Theory, ADT 2009, Venice, Italy, 20 - 23 October 2009, vol.5783 LNAI, pp.402-413
- XII. **Evolving parameterised policies for stochastic constraint programming**
 Prestwich S., TARIM Ş. A., Rossi R., Hnich B.
 15th International Conference on Principles and Practice of Constraint Programming, CP 2009, Lisbon, Portugal, 20 - 24 September 2009, vol.5732 LNCS, pp.684-691
- XIII. **Synthesizing Filtering Algorithms for Global Chance-Constraints**
 Hnich B., Rossi R., TARIM Ş. A., Prestwich S.
 15th International Conference on Principles and Practice of Constraint Programming, CP 2009, Lisbon, Portugal, 20 - 24 September 2009, vol.5732 LNCS, pp.439-453
- XIV. **A Steady-State Genetic Algorithm with Resampling for Noisy Inventory Control**
 Prestwich S., TARIM Ş. A., Rossi R., HNIÇH B.
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- XV. **A Cultural Algorithm for POMDPs from Stochastic Inventory Control**
 Prestwich S. D., Tarim Ş. A., Rossi R., Hnich B.
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- XVI. **Cost-Based Domain Filtering for Stochastic Constraint Programming**
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- XVII. **Replenishment planning for stochastic inventory systems with shortage cost**
 Rossi R., TARIM Ş. A., HNIÇH B., Prestwich S.
 4th International Conference on Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, Brussels, Belgium, 23 - 26 May 2007, vol.4510, pp.229-231
- XVIII. **Cost-based filtering for Stochastic inventory control**
 TARIM Ş. A., HNIÇH B., Rossi R., Prestwich S.
 11th Annual ERCIM International Workshop on Constraint Solving and Constraint Logic Programming, Caparica, Portugal, 26 - 28 June 2006, vol.4651, pp.169-171
- XIX. **A hybrid Benders' decomposition method for solving stochastic constraint programs with linear recourse**
 TARIM Ş. A., Miguel I.
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- XX. **Event-driven probabilistic constraint programming**
 TARIM Ş. A., Hnich B., Prestwich S. D.
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XXI. The temporal knapsack problem and its solution

Bartlett M., Frisch A. M., Hamadi Y., Miguel I., TARIM Ş. A., Unsworth C.

Second International Conference on Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, CPAIOR 2005, Prague, Czech Republic, 31 May - 01 June 2005, vol.3524, pp.34-48

XXII. Scenario-based stochastic constraint programming

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18th International Joint Conference on Artificial Intelligence, IJCAI 2003, Acapulco, Mexico, 9 - 15 August 2003, pp.257-262

Supported Projects

KOÇ İ., YÜKSEL KAPTANOĞLU İ., TARIM Ş. A., ADALI T., TÜRKYILMAZ A. S., SEÇKİNER P., ERYURT M. A., ERGÖÇMEN A. B.,
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