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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 Ataturk Anadolu Lisesi (1978-1982)
- TED Ankara Koleji (1973-1978)

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, Uncertainity 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**
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II. **Simple heuristics for the joint inventory and pricing models with fixed replenishment costs**
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V. **Stochastic dynamic programming heuristic for the (R,s,S) policy parameters computation**
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VI. **A mathematical programming-based solution method for the nonstationary inventory problem under correlated demand**
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European Journal of Operational Research, vol.304, no.2, pp.515-524, 2023 (SCI-Expanded)

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X. **Computing optimal (R,s,S) policy parameters by a hybrid of branch-and-bound and stochastic dynamic programming**
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XI. **Intermittency and obsolescence: A Croston method with linear decay**
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XII. **The benefit of receding horizon control: Near-optimal policies for stochastic inventory control**
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XIII. **Algorithme génétique de regroupement pour la stratification et la répartition simultanée de l'échantillon dans les plans de sondage**
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XVI. **Heuristic policies for the stochastic economic lot sizing problem with remanufacturing under service level constraints**
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XVII. **An Extended Mixed-Integer Programming Formulation and Dynamic Cut Generation Approach for the Stochastic Lot-Sizing Problem**
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XVIII. **A new causal discovery heuristic**
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XX. **Confidence-based reasoning in stochastic constraint programming**
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XXI. **Hybrid metaheuristics for stochastic constraint programming**
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XXV. **Forecasting intermittent demand by hyperbolic-exponential smoothing**
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XXVI. **A reformulation for the stochastic lot sizing problem with service-level constraints**
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XXVIII. **Exact and approximate solutions for fulfilment metrics in open pipeline order fulfilment systems**
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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., Eksioglu B.
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XL. **A Survey on CP-AI-OR Hybrids for Decision Making Under Uncertainty**
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XLI. **Computing the non-stationary replenishment cycle inventory policy under stochastic supplier lead-times**

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XLII. **Order acceptance in food processing systems with random raw material requirements**

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OR SPECTRUM, vol.32, no.4, pp.905-925, 2010 (SCI-Expanded)

XLIII. **Scheduling internal audit activities: a stochastic combinatorial optimization problem**

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XLIV. **A note on Liu-Iwamura's dependent-chance programming**

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XLV. **Finding reliable solutions: event-driven probabilistic constraint programming**

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XLVI. **Cost-Based Filtering Techniques for Stochastic Inventory Control Under Service Level Constraints**

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XLVII. **An efficient MIP model for the capacitated lot-sizing and scheduling problem with sequence-dependent setups**

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LI. **Constraint programming for computing non-stationary (R, S) inventory policies**

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LII. **Search in the patience game 'Black Hole'**

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AI Communications, vol.20, no.3, pp.211-226, 2007 (SCI-Expanded)

LIII. **Template design under demand uncertainty by integer linear local search**

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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.

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LVIII. **Echelon stock formulation of arborescent distribution systems: An application to the Wagner-Whitin problem**
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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**
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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.
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III. **Robust principal component analysis by reverse iterative linear programming**
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IV. **Causal discovery by randomness test**
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V. **Randomness as a constraint**
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VII. **Stochastic linear systems under control constraints: A supply chain planning tool**
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X. **Stochastic Constraint Programming by Neuroevolution with Filtering**
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XI. **Neuroevolutionary inventory control in multi-echelon systems**
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XII. **Evolving parameterised policies for stochastic constraint programming**
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XIII. **Synthesizing Filtering Algorithms for Global Chance-Constraints**
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XIV. **A Steady-State Genetic Algorithm with Resampling for Noisy Inventory Control**
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XV. **A Cultural Algorithm for POMDPs from Stochastic Inventory Control**
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XVI. **Cost-Based Domain Filtering for Stochastic Constraint Programming**
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XIX. **A hybrid Benders' decomposition method for solving stochastic constraint programs with linear recourse**
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XXI. **The temporal knapsack problem and its solution**

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Supported Projects

KOÇ İ., YÜKSEL KAPTANOĞLU İ., TARIM Ş. A., ADALI T., TÜRKYILMAZ A. S., SEÇKİNER P., ERYURT M. A., ERGÖÇMEN A. B., Project Supported by Higher Education Institutions, Türkiye Dördüncü Nüfusbilim Konferansı, 2015 - 2016

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