

Prof. GERHARD WILHELM WEBER

Personal Information

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Advising Theses

- WEBER G. W., Weber G., Runge-Kutta scheme for stochastic optimal control problems, Doctorate, H.Öz(Student), 2017
- WEBER G. W., Modeling of exchange rates by multivariate adaptive regression splines and comparison with classical statistical methods, Postgraduate, E.Köksal(Student), 2017
- WEBER G. W., Modeling advanced fund transfer pricing with an application of hull-white interest-rate tree in Turkish banking sector, Postgraduate, B.Shakirov(Student), 2017
- WEBER G. W., Advances in optimal control of markov regime-switching models with applications in finance and economics, Doctorate, E.Savku(Student), 2017
- YOLCU OKUR Y., WEBER G. W., Stochastic optimal control theory: new applications to finance and insurance, Postgraduate, E.Akdoğan(Student), 2017
- WEBER G. W., Identification of coupled systems of stochastic differential equations in finance including investor sentiment by multivariate adaptive regression splines, Postgraduate, B.Kalaycı(Student), 2017
- EYÜBOĞLU B. M., WEBER G. W., Computer-aided diagnosis of alzheimer's disease and mild cognitive impairment with MARS/CMARS classification using structural MR images, Doctorate, A.Çevik(Student), 2017
- WEBER G. W., Weber G., Financial modelling with random bridge signals and forward information, Doctorate, N.Serhan(Student), 2016
- WEBER G. W., Robust conditional value-at-risk under parallepipe uncertainty: an application to portfolio optimization, Postgraduate, G.Kara(Student), 2016
- WEBER G. W., Weber G., Modeling illiquidity premium and bid-ask prices of the financial securities, Doctorate, A.Karimov(Student), 2016
- WEBER G. W., Weber G., Electricity market modeling using stochastic and robust optimization, Doctorate, M.Hanım(Student), 2015
- YOLCU OKUR Y., WEBER G. W., Recent developments in portfolio optimization via dynamic programming, Postgraduate, O.John(Student), 2015
- WEBER G. W., Advances in robust identification of spline models and networks by robust conic optimization, with applications to different sectors, Doctorate, A.Özmen(Student), 2015
- WEBER G. W., Daily natural gas consumption prediction by MARS and CMARS models for residential users in Ankara, Postgraduate, Y.Yılmaz(Student), 2015
- WEBER G. W., Weber G., Prediction of insulin resistance by statistical tool MARS, Postgraduate, S.Gökçe(Student), 2014
- WEBER G. W., Statistical network analysis for collaboration in applied mathematics, Postgraduate, S.Güneri(Student), 2013
- WEBER G. W., Advances and applications of stochastic Ito-Taylor approximation and change of time method in the financial sector, Postgraduate, H.Öz(Student), 2013
- WEBER G. W., Refinements, extensions and modern applications of conic multivariate adaptive regression splines, Doctorate, F.Yerlikaya(Student), 2013
- WEBER G. W., Portfolio insurance strategies, Postgraduate, Ç.Güleroğlu(Student), 2012
- WEBER G. W., ÖKTEM H., A contribution to modern data reduction techniques and their applications by applied mathematics and statistical learning, Postgraduate, H.Sakarya(Student), 2010
- EROL I., WEBER G. W., Office rent variation in Istanbul CDB: an application of mamdanı and TSK-type fuzzy rule based

system, Postgraduate, A.Karimov(Student), 2010

WEBER G. W., Cooperative interval games, Doctorate, S.Zeynep(Student), 2009

WEBER G. W., A mathematical contribution of statistical learning and continuous optimization using infinite and semi-infinite programming to computational statistics, Doctorate, S.Özögür(Student), 2009

WEBER G. W., Text mining : a burgeroning quality improvement tool, Postgraduate, M.Alkin(Student), 2007

WEBER G. W., Discrete tomographic reconstruction methods from the theories of optimization and inverse problems : application in VLSI microchip production, Postgraduate, O.Özgür(Student), 2006

WEBER G. W., Boundary element method formulation and its solution in forward problem of electrocardiography by using a realistic torso model, Postgraduate, A.Kurt(Student), 2006

WEBER G. W., A mathematical modeling and approximation of gene expression patterns by linear and quadratic regulatory relations and analysis of gene networks, Postgraduate, F.Bilge(Student), 2004

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **LONG-TERM WIND POWER AND GLOBAL WARMING PREDICTION USING MARS, ANN, CART, LR, AND RF**
Yılmaz Y., NALÇACI G., Kańczurzevska M., Weber G. W.
Journal of Industrial and Management Optimization, vol.20, no.6, pp.2193-2216, 2024 (SCI-Expanded)
- II. **Disruption, panic buying, and pricing: A comprehensive game-theoretic exploration**
Soltanzadeh S., Rafiee M., Weber G.
Journal of Retailing and Consumer Services, vol.78, 2024 (SSCI)
- III. **Metaheuristic-driven extended exergy accounting for sustainable closed-loop food supply chain management**
Shokouhifar M., Naderi R., Goli A., Gultom P., Shafiei Nikabadi M., Weber G.
Computers and Industrial Engineering, vol.191, 2024 (SCI-Expanded)
- IV. **A novel Nash-based low-carbon implementation in agricultural supply chain management**
Hamidoğlu A., Weber G.
Journal of Cleaner Production, vol.449, 2024 (SCI-Expanded)
- V. **Location-allocation problem for green efficient two-stage vehicle-based logistics system: A type-2 neutrosophic multi-objective modeling approach**
Das S. K., Yu V. F., Roy S. K., Weber G. W.
Expert Systems with Applications, vol.238, 2024 (SCI-Expanded)
- VI. **Circular Economy Practices in the Context of Emerging Economies**
Ali S. S., Weber G., Tirkolaee E. B., Goli A.
Sustainability (Switzerland), vol.16, no.4, 2024 (SCI-Expanded)
- VII. **PEER GROUP SITUATIONS AND GAMES WITH FUZZY UNCERTAINTY**
Özcan İ., ALPARSLAN GÖK S. Z., Weber G.
Journal of Industrial and Management Optimization, vol.20, no.1, pp.428-438, 2024 (SCI-Expanded)
- VIII. **Optimal model description of finance and human factor indices**
Kalaycı B., PURUTÇUOĞLU V., Weber G. W.
Central European Journal of Operations Research, 2024 (SCI-Expanded)
- IX. **MATHEMATICAL ENCOURAGEMENT OF COMPANIES TO COOPERATE BY USING COOPERATIVE GAMES WITH FUZZY APPROACH**
Özcan I., Sledzinski J. D., Gök S. Z. A., Butlewski M., Weber G.
Journal of Industrial and Management Optimization, vol.19, no.10, pp.7180-7195, 2023 (SCI-Expanded)
- X. **Logistics and Operations Modelling and Optimization for Sustainable Supply Chain**
Weber G., Goli A., Tirkolaee E. B.
Sustainability (Switzerland), vol.15, no.17, 2023 (SCI-Expanded)
- XI. **Water Distribution Network Optimization Model with Reliability Considerations in Water Flow (Debit)**

Mawengkang H., Syahputra M. R., Sutarman S., Weber G. W.

Water (Switzerland), vol.15, no.17, 2023 (SCI-Expanded)

- XII. **Inventory model involving reworking of faulty products with three carbon policies under neutrosophic environment**
Barman H., Roy S. K., Sakalauskas L., Weber G.
Advanced Engineering Informatics, vol.57, 2023 (SCI-Expanded)
- XIII. **Recent advances in viable and sustainable supply chain management**
Lotfi R., Weber G., Tirkolaee E. B.
Environmental Science and Pollution Research, vol.30, no.39, pp.89943-89944, 2023 (SCI-Expanded)
- XIV. **Editorial: Smart and sustainable supply chain and logistics - trends, challenges, methods and best practices**
Golinska-Dawson P., Mrugalska B., Lai K. K., Weber G.
Annals of Operations Research, vol.324, no.1-2, pp.1-11, 2023 (SCI-Expanded)
- XV. **A novel model for sustainable waste collection arc routing problem: Pareto-based algorithms**
Tirkolaee E. B., Goli A., Gutmen S., Weber G., Szwedzka K.
ANNALS OF OPERATIONS RESEARCH, vol.324, no.1-2, pp.189-214, 2023 (SCI-Expanded)
- XVI. **Robust multivariate adaptive regression splines under cross-polytope uncertainty: an application in a natural gas market**
Özmen A., Zinchenko Y., Weber G.
Annals of Operations Research, vol.324, no.1-2, pp.1337-1367, 2023 (SCI-Expanded)
- XVII. **Multi-objective solid transportation-location problem with variable carbon emission in inventory management: a hybrid approach**
Das S. K., Pervin M., Roy S. K., Weber G. W.
ANNALS OF OPERATIONS RESEARCH, vol.324, no.1-2, pp.283-309, 2023 (SCI-Expanded)
- XVIII. **Robust optimization for energy-aware cryptocurrency farm location with renewable energy**
Lotfi R., Ghaboulian Zare S., Gharehbaghi A., Nazari S., Weber G.
Computers and Industrial Engineering, vol.177, 2023 (SCI-Expanded)
- XIX. **Weak Second-Order Conditions of Runge–Kutta Method for Stochastic Optimal Control Problems**
YILMAZ F. N., Öz Bakan H., Weber G.
Journal of Optimization Theory and Applications, 2023 (SCI-Expanded)
- XX. **A robust optimization model to design an IoT-based sustainable supply chain network with flexibility**
Goli A., Babaei Tirkolaee E., Golmohammadi A., Atan Z., Weber G., Ali S. S.
Central European Journal of Operations Research, 2023 (SCI-Expanded)
- XXI. **D-PFA: A Discrete Metaheuristic Method for Solving Traveling Salesman Problem Using Pathfinder Algorithm**
Pirozmand P., Hosseinabadi A. A. R., Chari M. J., Pahlavan F., Mirkamali S., Weber G., Nosheen S., Abraham A.
IEEE Access, vol.11, pp.106544-106566, 2023 (SCI-Expanded)
- XXII. **Analysis of a dual-channel green supply chain game-theoretical model under carbon policy**
Barman H., Pervin M., Roy S. K., Weber G.
International Journal of Systems Science: Operations and Logistics, vol.10, no.1, 2023 (SCI-Expanded)
- XXIII. **The use of machine learning techniques for assessing the potential of organizational resilience**
Ewertowski T., Gündoğuş B. Ç., Kuter S., Akyüz S., Weber G., Sadłowska-Wrzesińska J., Racek E.
Central European Journal of Operations Research, 2023 (SCI-Expanded)
- XXIV. **Viable medical waste chain network design by considering risk and robustness**
Lotfi R., Kargar B., Gharehbaghi A., Weber G.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.29, no.53, pp.79702-79717, 2022 (SCI-Expanded)
- XXV. **Preface: operations research in neuroscience III**
Tikidji-Hamburyan R. A., Kropat E., Weber G.
Annals of Operations Research, vol.312, no.2, pp.1143-1145, 2022 (SCI-Expanded)
- XXVI. **Stochastic differential games for optimal investment problems in a Markov regime-switching jump-diffusion market**

- Savku E., Weber G.
ANNALS OF OPERATIONS RESEARCH, vol.312, no.2, pp.1171-1196, 2022 (SCI-Expanded)
- XXVII. **Rumour propagation: an operational research approach by computational and information theory**
Guerbuez B., Mawengkang H., Husein I., Weber G.
CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, vol.30, no.1, pp.345-365, 2022 (SCI-Expanded)
- XXVIII. **A green inventory model with the effect of carbon taxation**
Paul A., Pervin M., Roy S. K., Maculan N., Weber G.
ANNALS OF OPERATIONS RESEARCH, vol.309, no.1, pp.233-248, 2022 (SCI-Expanded)
- XXIX. **A ROBUST TIME-COST-QUALITY-ENERGY-ENVIRONMENT TRADE-OFF WITH RESOURCE-CONSTRAINED IN PROJECT MANAGEMENT: A CASE STUDY FOR A BRIDGE CONSTRUCTION PROJECT**
Lotfi R., Yadegari Z., Hosseini S. H., Khameneh A. H., Tirkolaee E. B., Weber G.
Journal of Industrial and Management Optimization, vol.18, no.1, pp.375-396, 2022 (SCI-Expanded)
- XXX. **Robust optimization of risk-aware, resilient and sustainable closed-loop supply chain network design with Lagrange relaxation and fix-and-optimize**
Lotfi R., Sheikhi Z., Amra M., AliBakhshi M., Weber G.
INTERNATIONAL JOURNAL OF LOGISTICS-RESEARCH AND APPLICATIONS, 2021 (SSCI)
- XXXI. **A new outlier detection method based on convex optimization: application to diagnosis of Parkinson's disease**
TAYLAN P., Yerlikaya-Ozkurt F., Bilgic Ucak B., Weber G.
JOURNAL OF APPLIED STATISTICS, vol.48, no.13-15, pp.2421-2440, 2021 (SCI-Expanded)
- XXXII. **Resilience and sustainable supply chain network design by considering renewable energy**
Lotfi R., Kargar B., Hoseini S. H., Nazari S., Safavi S., Weber G.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.45, no.12, pp.17749-17766, 2021 (SCI-Expanded)
- XXXIII. **Gradient-based grey wolf optimizer with Gaussian walk: Application in modelling and prediction of the COVID-19 pandemic**
Khalilpourazari S., Hashemi Doulabi H., Özyüksel Çiftçioğlu A., Weber G.
Expert Systems with Applications, vol.177, 2021 (SCI-Expanded)
- XXXIV. **Designing energy-efficient high-precision multi-pass turning processes via robust optimization and artificial intelligence**
Khalilpourazari S., Khalilpourazary S., ÇİFTÇİOĞLU A. Ö., Weber G.
JOURNAL OF INTELLIGENT MANUFACTURING, vol.32, no.6, pp.1621-1647, 2021 (SCI-Expanded)
- XXXV. **BACK-ORDERED INVENTORY MODEL WITH INFLATION IN A CLOUDY-FUZZY ENVIRONMENT**
Barman H., Pervin M., Roy S. K., Weber G.
JOURNAL OF INDUSTRIAL AND MANAGEMENT OPTIMIZATION, vol.17, no.4, pp.1913-1941, 2021 (SCI-Expanded)
- XXXVI. **An integrated decision-making approach for green supplier selection in an agri-food supply chain: Threshold of robustness worthiness**
Tirkolaee E. B., Dashtian Z., Weber G., Tomaskova H., Soltani M., Mousavi N. S.
Mathematics, vol.9, no.11, 2021 (SCI-Expanded)
- XXXVII. **Modeling human thinking about similarities by neuromatrices in the perspective of fuzzy logic**
Grobelyny J., Michalski R., Weber G.
NEURAL COMPUTING & APPLICATIONS, vol.33, no.11, pp.5843-5867, 2021 (SCI-Expanded)
- XXXVIII. **Fuzzy multiple objective fractional optimization in rough approximation and its aptness to the fixed-charge transportation problem**
Midya S., Roy S. K., Weber G. W.
RAIRO - Operations Research, vol.55, no.3, pp.1715-1741, 2021 (SCI-Expanded)
- XXXIX. **Robust bi-level programming for renewable energy location**
Lotfi R., Mardani N., Weber G.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.45, no.5, pp.7521-7534, 2021 (SCI-Expanded)
- XL. **Effect of price-sensitive demand and default risk on optimal credit period and cycle time for a deteriorating inventory model**
Paul A., Pervin M., Roy S. K., Weber G., Mirzazadeh A.

RAIRO-OPERATIONS RESEARCH, vol.55, 2021 (SCI-Expanded)

- XLII. **A quantitative analysis of low carbon performance in industrial sectors of developing world**
Ali S. S., ERSÖZ F., Kaur R., Altaf B., Weber G.
JOURNAL OF CLEANER PRODUCTION, vol.284, 2021 (SCI-Expanded)
- XLIII. **Sustainable fuzzy multi-trip location-routing problem for medical waste management during the COVID-19 outbreak**
Tirkolaee E. B., Abbasian P., Weber G.
SCIENCE OF THE TOTAL ENVIRONMENT, vol.756, 2021 (SCI-Expanded)
- XLIV. **Editorial: OR for sustainable development**
del Rosario E., Vitoriano B., Weber G.
CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, vol.28, no.4, pp.1179-1186, 2020 (SCI-Expanded)
- XLV. **Mutual relevance of investor sentiment and finance by modeling coupled stochastic systems with MARS**
Kalayci B., Ozmen A., WEBER G. W.
ANNALS OF OPERATIONS RESEARCH, vol.295, no.1, pp.183-206, 2020 (SCI-Expanded)
- XLVI. **Measuring carbon performance for sustainable green supply chain practices: a developing country scenario**
Ali S. S., Kaur R., ERSÖZ F., Altaf B., Basu A., Weber G.
CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, vol.28, no.4, pp.1389-1416, 2020 (SCI-Expanded)
- XLVII. **A robust bi-objective mathematical model for disaster rescue units allocation and scheduling with learning effect**
Tirkolaee E. B., Aydin N. S., Ranjbar-Bourani M., Weber G.
COMPUTERS & INDUSTRIAL ENGINEERING, vol.149, 2020 (SCI-Expanded)
- XLVIII. **Application of Type-2 Fuzzy Logic to a Multiobjective Green Solid Transportation-Location Problem With Dwell Time Under Carbon Tax, Cap, and Offset Policy: Fuzzy Versus Nonfuzzy Techniques**
Das S. K., Roy S. K., Weber G.
IEEE TRANSACTIONS ON FUZZY SYSTEMS, vol.28, no.11, pp.2711-2725, 2020 (SCI-Expanded)
- XLIX. **Fuzzy Mathematical Programming and Self-Adaptive Artificial Fish Swarm Algorithm for Just-in-Time Energy-Aware Flow Shop Scheduling Problem With Outsourcing Option**
Tirkolaee E. B., Goli A., Weber G.
IEEE TRANSACTIONS ON FUZZY SYSTEMS, vol.28, no.11, pp.2772-2783, 2020 (SCI-Expanded)
- L. **Heuristic approaches for solid transportation-p-facility location problem**
Das S. K., Roy S. K., Weber G. W.
CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, vol.28, no.3, pp.939-961, 2020 (SCI-Expanded)
- L. **AN APPLICATION OF CRYPTO CLOUD COMPUTING IN SOCIAL NETWORKS BY COOPERATIVE GAME THEORY**
Ergun S., KIRLAR B. B., ALPARSLAN GÖK S. Z., WEBER G. W.
JOURNAL OF INDUSTRIAL AND MANAGEMENT OPTIMIZATION, vol.16, no.4, pp.1927-1941, 2020 (SCI-Expanded)
- LI. **New Positive Solutions of Nonlinear Elliptic PDEs**
İNÇ M., Bouteraa N., AKINLAR M. A., Benaicha S., Chu Y., Weber G., Almohsen B.
APPLIED SCIENCES-BASEL, vol.10, no.14, 2020 (SCI-Expanded)
- LII. **Preface: operations research in neuroscience II**
Tikidji-Hamburyan R. A., Kropat E., Weber G.
ANNALS OF OPERATIONS RESEARCH, vol.289, no.1, pp.1-4, 2020 (SCI-Expanded)
- LIII. **Knowledge accelerator by transversal competences and multivariate adaptive regression splines**
Graczyk-Kucharska M., Ozmen A., Szafranski M., Weber G. W., Golinski M., Sychala M.
CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, vol.28, no.2, pp.645-669, 2020 (SCI-Expanded)
- LIV. **Hesitant interval-valued intuitionistic fuzzy-linguistic term set approach in Prisoners' dilemma game theory using TOPSIS: a case study on Human-trafficking**
Bhaumik A., Roy S. K., Weber G. W.
CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, vol.28, no.2, pp.797-816, 2020 (SCI-Expanded)

- LV. **Human factors in a contemporary organization**
Hankiewicz K., Weber G.
CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, vol.28, no.2, pp.579-587, 2020 (SCI-Expanded)
- LVI. **Designing an efficient blood supply chain network in crisis: neural learning, optimization and case study**
Khalilpourazari S., Soltanzadeh S., Weber G., Roy S. K.
ANNALS OF OPERATIONS RESEARCH, vol.289, no.1, pp.123-152, 2020 (SCI-Expanded)
- LVII. **Reduced leadset selection and performance evaluation in the inverse problem of electrocardiography for reconstructing the ventricularly paced electrograms**
No F. G., Dogrusoz Y., Onak O. N., Weber G.
Journal of Electrocardiology, vol.60, pp.44-53, 2020 (SCI-Expanded)
- LVIII. **A novel hybrid method using fuzzy decision making and multi-objective programming for sustainable-reliable supplier selection in two-echelon supply chain design**
Tirkolaee E. B., Mardani A., Dashtian Z., Soltani M., Weber G.
JOURNAL OF CLEANER PRODUCTION, vol.250, 2020 (SCI-Expanded)
- LIX. **An evidential reasoning approach for production modeling with deteriorating and ameliorating items**
Nodoust S., Mirzazadeh A., Weber G.
OPERATIONAL RESEARCH, vol.20, no.1, pp.1-19, 2020 (SCI-Expanded)
- LX. **A hybrid augmented ant colony optimization for the multi-trip capacitated arc routing problem under fuzzy demands for urban solid waste management**
Tirkolaee E. B., Mahdavi I., Esfahani M. M. S., Weber G.
WASTE MANAGEMENT & RESEARCH, vol.38, no.2, pp.156-172, 2020 (SCI-Expanded)
- LXI. **A robust green location-allocation-inventory problem to design an urban waste management system under uncertainty**
Tirkolaee E. B., Mahdavi I., Esfahani M. M. S., Weber G.
WASTE MANAGEMENT, vol.102, pp.340-350, 2020 (SCI-Expanded)
- LXII. **A robust green traffic-based routing problem for perishable products distribution**
Tirkolaee E. B., Hadian S., Weber G., Mahdavi I.
COMPUTATIONAL INTELLIGENCE, vol.36, no.1, pp.80-101, 2020 (SCI-Expanded)
- LXIII. **Approaches combining methods of Operational Research with Business Process Model and Notation: A systematic review**
Tomaskova H., Weber G.
PEERJ COMPUTER SCIENCE, vol.6, 2020 (SCI-Expanded)
- LXIV. **An integrated vendor-buyer model with quadratic demand under inspection policy and preservation technology**
Pervin M., Roy S. K., Weber G.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.49, no.3, pp.1168-1189, 2020 (SCI-Expanded)
- LXV. **Introduction to the Special Issue on Fuzzy Analytics and Stochastic Methods in Neurosciences**
Kropat E., Turkay M., Weber G. -.
IEEE TRANSACTIONS ON FUZZY SYSTEMS, vol.28, no.1, pp.1-4, 2020 (SCI-Expanded)
- LXVI. **INTERDEPENDENT DEMAND IN THE TWO-PERIOD NEWSVENDOR PROBLEM**
Lotfi R., Weber G., Sajadifar S. M., Mardani N.
JOURNAL OF INDUSTRIAL AND MANAGEMENT OPTIMIZATION, vol.16, no.1, pp.117-140, 2020 (SCI-Expanded)
- LXVII. **A robust fuzzy approach for constrained multi-product economic production quantity with imperfect items and rework process**
Khalilpourazari S., Mirzazadeh A., Weber G., Pasandideh S. H. R.
OPTIMIZATION, vol.69, no.1, pp.63-90, 2020 (SCI-Expanded)
- LXVIII. **Multi-objective multi-item fixed-charge solid transportation problem under twofold uncertainty**
Roy S. K., Midya S., WEBER G. W.
NEURAL COMPUTING & APPLICATIONS, vol.31, no.12, pp.8593-8613, 2019 (SCI-Expanded)

- LXIX. **Advances in optimization theory and applications (Baikal 2017, ICCESN 2016 and 2017)**
Khamisov O., Weber G.
OPTIMIZATION METHODS & SOFTWARE, vol.34, no.3, pp.459-461, 2019 (SCI-Expanded)
- LXX. **Computational networks and systems - homogenization of variational problems on micro-architected networks and devices**
Kropat E., Meyer-Nieberg S., WEBER G. W.
OPTIMIZATION METHODS & SOFTWARE, vol.34, no.3, pp.586-611, 2019 (SCI-Expanded)
- LXXI. **Evaluation of multivariate adaptive non-parametric reduced-order model for solving the inverse electrocardiography problem: a simulation study**
Onak O. N., Dogrusoz Y., Weber G. W.
MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING, vol.57, no.5, pp.967-993, 2019 (SCI-Expanded)
- LXXII. **Stability advances in robust portfolio optimization under parallelepiped uncertainty**
Kara G., Ozmen A., Weber G.
CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, vol.27, no.1, pp.241-261, 2019 (SCI-Expanded)
- LXXIII. **Emerging Trends on Optimization and Control under Uncertainty in Transportation and Construction**
Xu H., Weber G., Xiao S.
MATHEMATICAL PROBLEMS IN ENGINEERING, vol.2019, 2019 (SCI-Expanded)
- LXXIV. **Loop-based conic multivariate adaptive regression splines is a novel method for advanced construction of complex biological networks**
Ayyıldız Demirci E., Purutçuoğlu Gazi V., Weber G. W.
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.270, pp.852-861, 2018 (SCI-Expanded)
- LXXV. **A Stochastic Maximum Principle for a Markov Regime-Switching Jump-Diffusion Model with Delay and an Application to Finance**
Savku E., Weber G.
JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS, vol.179, no.2, pp.696-721, 2018 (SCI-Expanded)
- LXXVI. **Special issue for COMPSE 2016 First EAI international Conference on computer science and Engineering, November 11-12, 2016, Penang, Malaysia**
Vasant P., Weber G., Le V. T.
JOURNAL OF AMBIENT INTELLIGENCE AND HUMANIZED COMPUTING, vol.9, no.3, pp.739-742, 2018 (SCI-Expanded)
- LXXVII. **Minimal truncation error constants for Runge-Kutta method for stochastic optimal control problems**
Bakan H. O., Yilmaz F., Weber G.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.331, pp.196-207, 2018 (SCI-Expanded)
- LXXVIII. **Computer science and engineering**
Weber G., Vasant P., Marmolejo Saucedo J. A.
JOURNAL OF COMPUTATIONAL SCIENCE, vol.25, pp.416-418, 2018 (SCI-Expanded)
- LXXIX. **Retrieval of fractional snow covered area from MODIS data by multivariate adaptive regression splines**
KUTER S., AKYÜREK S. Z., Weber G.
REMOTE SENSING OF ENVIRONMENT, vol.205, pp.236-252, 2018 (SCI-Expanded)
- LXXX. **Natural gas consumption forecast with MARS and CMARS models for residential users**
Ozmen A., Yilmaz Y., Weber G.
ENERGY ECONOMICS, vol.70, pp.357-381, 2018 (SSCI)
- LXXXI. **Nonconvex optimization of desirability functions**
Akteke-Ozturk B., Köksal G., Weber G. W.
QUALITY ENGINEERING, vol.30, pp.293-310, 2018 (SCI-Expanded)
- LXXXII. **A Novel Interactive Fuzzy Programming Approach for Optimization of Allied Closed-Loop Supply Chains**
Calik A., YAPICI PEHLIVAN N., PAKSOY T., Weber G. W.
INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE SYSTEMS, vol.11, no.1, pp.672-691, 2018 (SCI-Expanded)

- LXXXIII. **Preface: Advances of OR in commodities and financial modelling**
 KESTEL S. A., Yolcu-Okur Y., Weber G.
 ANNALS OF OPERATIONS RESEARCH, vol.260, pp.1-2, 2018 (SCI-Expanded)
- LXXXIV. **Effects of a priori parameter selection in minimum relative entropy method on inverse electrocardiography problem**
 ONAK O. N., Dogrusoz Y., WEBER G. W.
 INVERSE PROBLEMS IN SCIENCE AND ENGINEERING, vol.26, no.6, pp.877-897, 2018 (SCI-Expanded)
- LXXXV. **Early warning on stock market bubbles via methods of optimization, clustering and inverse problems**
 Kurum E., Weber G., İYİĞÜN C.
 ANNALS OF OPERATIONS RESEARCH, vol.260, pp.293-320, 2018 (SCI-Expanded)
- LXXXVI. **MULTI-LEVEL OPTIMIZATION OF AN AUTOMOTIVE CLOSED-LOOP SUPPLY CHAIN NETWORK WITH INTERACTIVE FUZZY PROGRAMMING APPROACHES**
 YILDIZBAŞI A., Calik A., PAKSOY T., Zanjirani Farahani R., Weber G.
 TECHNOLOGICAL AND ECONOMIC DEVELOPMENT OF ECONOMY, vol.24, no.3, pp.1004-1028, 2018 (SSCI)
- LXXXVII. **A game-theoretical and cryptographical approach to crypto-cloud computing and its economical and financial aspects**
 KIRLAR B. B., Ergun S., ALPARSLAN GÖK S. Z., Weber G.
 ANNALS OF OPERATIONS RESEARCH, vol.260, pp.217-231, 2018 (SCI-Expanded)
- LXXXVIII. **Analysis of inventory control model with shortage under time-dependent demand and time-varying holding cost including stochastic deterioration**
 Pervin M., Roy S. K., Weber G.
 ANNALS OF OPERATIONS RESEARCH, vol.260, pp.437-460, 2018 (SCI-Expanded)
- LXXXIX. **Operations research in neuroscience**
 Kropat E., Tikidji-Hamburyan R. A., Weber G.
 ANNALS OF OPERATIONS RESEARCH, vol.258, no.1, pp.1-4, 2017 (SCI-Expanded)
- XC. **Voxel-MARS: a method for early detection of Alzheimer's disease by classification of structural brain MRI**
 Cevik A., Weber G., EYÜBOĞLU B. M., Oguz K. K.
 ANNALS OF OPERATIONS RESEARCH, vol.258, no.1, pp.31-57, 2017 (SCI-Expanded)
- XCI. **A progressive approach for processing satellite data by operational research**
 KUTER S., Weber G., Akyurek Z.
 OPERATIONAL RESEARCH, vol.17, no.2, pp.371-393, 2017 (SCI-Expanded)
- XCII. **Multi-objective two-stage grey transportation problem using utility function with goals**
 Roy S. K., Maity G., Weber G.
 CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, vol.25, no.2, pp.417-439, 2017 (SCI-Expanded)
- XCIII. **Conic scalarization approach to solve multi-choice multi-objective transportation problem with interval goal**
 Roy S. K., Maity G., Weber G. W., ALPARSLAN GÖK S. Z.
 ANNALS OF OPERATIONS RESEARCH, vol.253, no.1, pp.599-620, 2017 (SCI-Expanded)
- XCIV. **Robust background normalization method for one-channel microarrays**
 AKAL T., PURUTÇUOĞLU GAZİ V., Weber G.
 TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.42, no.2, pp.111-121, 2017 (SCI-Expanded)
- XCV. **Making an Impact with Optimization**
 Akartunali K., Laumanns M., Weber G.
 OPTIMIZATION, vol.66, no.12, pp.2087-2088, 2017 (SCI-Expanded)
- XCVI. **Robust optimization in spline regression models for multi-model regulatory networks under polyhedral uncertainty**
 Ozmen A., Kropat E., Weber G.
 OPTIMIZATION, vol.66, no.12, pp.2135-2155, 2017 (SCI-Expanded)
- XCVII. **Optimization of transmission network for homogeneous good market**

- Vasin A., Gao H., Dolmatova M., Weber G. -.
OPTIMIZATION, vol.66, no.12, pp.2125-2134, 2017 (SCI-Expanded)
- XCVIII. **Optimization of generalized desirability functions under model uncertainty**
Akteke-Ozturk B., Weber G., Köksal G.
OPTIMIZATION, vol.66, pp.2157-2169, 2017 (SCI-Expanded)
- XCIX. **Supply function equilibria for uniform price auction in oligopolistic markets**
Vasin A., Dolmatova M., Weber G.
CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, vol.24, no.4, pp.819-831, 2016 (SCI-Expanded)
- C. **Special Issue on International Aspects of OR**
Reisach U., DeTombe D., Weber G.
CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, vol.24, no.4, pp.797-799, 2016 (SCI-Expanded)
- CI. **Foreword**
Alparslan-Gök S. Z., Weber G.
OPTIMIZATION METHODS & SOFTWARE, vol.31, no.3, pp.445, 2016 (SCI-Expanded)
- CII. **Adapted Infinite Kernel Learning by Multi-Local Algorithm**
Akyuz S. O., Ustunkar G., Weber G. W.
INTERNATIONAL JOURNAL OF PATTERN RECOGNITION AND ARTIFICIAL INTELLIGENCE, vol.30, no.4, 2016 (SCI-Expanded)
- CIII. **FUZZY PREDICTION STRATEGIES FOR GENE-ENVIRONMENT NETWORKS - FUZZY REGRESSION ANALYSIS FOR TWO-MODAL REGULATORY SYSTEMS**
Kropat E., Özmen A., Weber G., Meyer-Nieberg S., DEFTERLİ Ö.
RAIRO-OPERATIONS RESEARCH, vol.50, no.2, pp.413-435, 2016 (SCI-Expanded)
- CIV. **An estimate of the objective function optimum for the network Steiner problem**
Kirzhner V., Volkovich Z., Ravve E., Weber G. -.
ANNALS OF OPERATIONS RESEARCH, vol.238, pp.315-328, 2016 (SCI-Expanded)
- CV. **Transportation interval situations and related games**
PALANCI O., ALPARSLAN GÖK S. Z., OLGUN M. O., Weber G. -.
OR SPECTRUM, vol.38, no.1, pp.119-136, 2016 (SCI-Expanded)
- CVI. **A Hybrid Computational Method Based on Convex Optimization for Outlier Problems: Application to Earthquake Ground Motion Prediction**
Yerlikaya-Ozkurt F., Askan A., Weber G.
INFORMATICA, vol.27, pp.893-910, 2016 (SCI-Expanded)
- CVII. **Editorial of the special issue data analysis and intelligent optimization with applications**
Strijov V., Weber G., Weber R., Akyuz S. O.
MACHINE LEARNING, vol.101, pp.1-4, 2015 (SCI-Expanded)
- CVIII. **Cooperative grey games and the grey Shapley value**
PALANCI O., PALANCI O., Ergun S., Weber G. -.
OPTIMIZATION, vol.64, no.8, pp.1657-1668, 2015 (SCI-Expanded)
- CIX. **JOINT PRICING AND REPLENISHMENT DECISIONS FOR NON-INSTANTANEOUS DETERIORATING ITEMS WITH PARTIAL BACKLOGGING, INFLATION- AND SELLING PRICE-DEPENDENT DEMAND AND CUSTOMER RETURNS**
Ghoreishi M., Mirzazadeh A., Weber G., Nakhai-Kamalabadi I.
JOURNAL OF INDUSTRIAL AND MANAGEMENT OPTIMIZATION, vol.11, no.3, pp.933-949, 2015 (SCI-Expanded)
- CX. **Special issue: Optimization in the natural sciences**
Tchemisova T., Freitas A., Plakhov A., Weber G.
OPTIMIZATION, vol.64, no.6, pp.1363-1365, 2015 (SCI-Expanded)
- CXI. **Inversion of top of atmospheric reflectance values by conic multivariate adaptive regression splines**
KUTER S., Weber G., Akyurek Z., Özmen A.
INVERSE PROBLEMS IN SCIENCE AND ENGINEERING, vol.23, no.4, pp.651-669, 2015 (SCI-Expanded)
- CXII. **An inventory model for non-instantaneous deteriorating items with partial backlogging, permissible delay in payments, inflation- and selling price-dependent demand and customer returns**

- Ghoreishi M., Weber G., Mirzazadeh A.
ANNALS OF OPERATIONS RESEARCH, vol.226, no.1, pp.221-238, 2015 (SCI-Expanded)
- CXIII. **Classical and Hybrid Optimization Approaches and Their Applications in Engineering and Economics**
Vasant P., Weber G., Vo Ngoc Dieu V. N. D.
MATHEMATICAL PROBLEMS IN ENGINEERING, vol.2015, 2015 (SCI-Expanded)
- CXIV. **An alternative approach to the ground motion prediction problem by a non-parametric adaptive regression method**
Yerlikaya-Ozkurt F., Askan A., Weber G.
ENGINEERING OPTIMIZATION, vol.46, pp.1651-1668, 2014 (SCI-Expanded)
- CXV. **Precipitation Modeling by Polyhedral RCMARS and Comparison with MARS and CMARS**
Ozmen A., BATMAZ İ., Weber G.
ENVIRONMENTAL MODELING & ASSESSMENT, vol.19, no.5, pp.425-435, 2014 (SCI-Expanded)
- CXVI. **Cooperative games under bubbly uncertainty**
PALANCI O., ALPARSLAN GÖK S. Z., WEBER G. W.
MATHEMATICAL METHODS OF OPERATIONS RESEARCH, vol.80, no.2, pp.129-137, 2014 (SCI-Expanded)
- CXVII. **Recent advances in computational biology, bioinformatics, medicine, and healthcare by modern OR**
WEBER G. W., Blazewicz J., Rauner M., Turkay M.
CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, vol.22, no.3, pp.427-430, 2014 (SCI-Expanded)
- CXVIII. **Dynamic programming for a Markov-switching jump-diffusion**
Azevedo N., Pinheiro D., WEBER G. W.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.267, pp.1-19, 2014 (SCI-Expanded)
- CXIX. **Preface of the special issue OR: connecting sciences supported by global optimization related to the 25th European conference on operational research (EURO XXV 2012)**
Bagirov A., Miettinen K., WEBER G. W.
JOURNAL OF GLOBAL OPTIMIZATION, vol.60, no.1, pp.1-3, 2014 (SCI-Expanded)
- CXX. **Efficient adaptive regression spline algorithms based on mapping approach with a case study on finance**
Koc E. K., İYİĞÜN C., BATMAZ İ., Weber G.
JOURNAL OF GLOBAL OPTIMIZATION, vol.60, no.1, pp.103-120, 2014 (SCI-Expanded)
- CXXI. **Spline regression models for complex multi-modal regulatory networks**
Ozmen A., Kropat E., WEBER G. W.
OPTIMIZATION METHODS & SOFTWARE, vol.29, no.3, pp.515-534, 2014 (SCI-Expanded)
- CXXII. **RMARS: Robustification of multivariate adaptive regression spline under polyhedral uncertainty**
Ozmen A., Weber G. W.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.259, pp.914-924, 2014 (SCI-Expanded)
- CXXIII. **Optimal control of stochastic hybrid system with jumps: A numerical approximation**
TEMOÇİN B. Z., Weber G.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.259, pp.443-451, 2014 (SCI-Expanded)
- CXXIV. **Estimation of the Hurst parameter for fractional Brownian motion using the CMARS method**
Yerlikaya-Ozkurt F., Vardar-Acar C., Yolcu-Okur Y., Weber G. -.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.259, pp.843-850, 2014 (SCI-Expanded)
- CXXV. **Special Issue on recent advances in continuous optimization on the occasion of the 25th European conference on Operational Research (EURO XXV 2012)**
Weber G., Kruger A., Enrique Martinez-Legaz J., Mordukhovich B., Sakalauskas L.
OPTIMIZATION, vol.63, no.1, pp.1-5, 2014 (SCI-Expanded)
- CXXVI. **Effective optimization with weighted automata on decomposable trees**
Ravve E. V., Volkovich Z., Weber G.
OPTIMIZATION, vol.63, no.1, pp.109-127, 2014 (SCI-Expanded)
- CXXVII. **A multi-period stochastic portfolio optimization model applied for an airline company in the EU ETS**
Kalayci E., Gaygısız E., Weber G. -.
OPTIMIZATION, vol.63, pp.1817-1835, 2014 (SCI-Expanded)

- CXXVIII. **Sample size determination for logistic regression**
Motrenko A., Strijov V., Weber G.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.255, pp.743-752, 2014 (SCI-Expanded)
- CXXIX. **An approach to the mean shift outlier model by Tikhonov regularization and conic programming**
TAYLAN P., Yerlikaya-Oezkurt F., Weber G.
INTELLIGENT DATA ANALYSIS, vol.18, no.1, pp.79-94, 2014 (SCI-Expanded)
- CXXX. **A value-adding approach to reliability under preventive maintenance costs and its applications**
Kilic E., Ali S. S., Weber G. W., Dubey R.
OPTIMIZATION, vol.63, no.12, pp.1805-1816, 2014 (SCI-Expanded)
- CXXXI. **Improvement of the Gravitational Search Algorithm by means of Low-Discrepancy Sobol Quasi Random-Number Sequence Based Initialization**
Altinoz O. T., YILMAZ A. E., Weber G.
ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, vol.14, no.3, pp.55-62, 2014 (SCI-Expanded)
- CXXXII. **Optimization in finance - OPTFIN 2012 workshop**
Bogdan M., Comes C., Stefan D., Weber G.
OPTIMIZATION, vol.63, no.12, pp.1781-1783, 2014 (SCI-Expanded)
- CXXXIII. **Optimal pricing and ordering policy for non-instantaneous deteriorating items under inflation and customer returns**
Ghoreishi M., Mirzazadeh A., Weber G. -.
OPTIMIZATION, vol.63, no.12, pp.1785-1804, 2014 (SCI-Expanded)
- CXXXIV. **Optimization Methods in Mathematical Finance**
Sezer A. D., Weber G.
OPTIMIZATION, vol.62, no.11, pp.1399-1402, 2013 (SCI-Expanded)
- CXXXV. **On dominance core and stable sets for cooperative ellipsoidal games**
ALPARSLAN GÖK S. Z., Weber G. -.
OPTIMIZATION, vol.62, no.10, pp.1297-1308, 2013 (SCI-Expanded)
- CXXXVI. **An overview of advances in combinatorial optimization related topics**
Martello S., Weber G., KASIMBEYLİ R.
OPTIMIZATION, vol.62, no.10, pp.1291-1295, 2013 (SCI-Expanded)
- CXXXVII. **Models for capacity and electricity market design**
Vasin A., Kartunova P., Weber G.
CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, vol.21, no.3, pp.651-661, 2013 (SCI-Expanded)
- CXXXVIII. **A NEW ROBUST OPTIMIZATION TOOL APPLIED ON FINANCIAL DATA**
Ozmen A., Weber G. -, Karimov A.
PACIFIC JOURNAL OF OPTIMIZATION, vol.9, no.3, pp.535-552, 2013 (SCI-Expanded)
- CXXXIX. **Self-learning K-means clustering: a global optimization approach**
Volkovich Z., Toledano-Kitai D., Weber G. -.
JOURNAL OF GLOBAL OPTIMIZATION, vol.56, no.2, pp.219-232, 2013 (SCI-Expanded)
- CXL. **The new robust conic GPLM method with an application to finance: prediction of credit default**
Ozmen A., Weber G., Cavusoglu Z., DEFTERLİ Ö.
JOURNAL OF GLOBAL OPTIMIZATION, vol.56, no.2, pp.233-249, 2013 (SCI-Expanded)
- CXLI. **Profit oriented supply chain network optimization**
PAKSOY T., Ozceylan E., Weber G.
CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, vol.21, no.2, pp.455-478, 2013 (SCI-Expanded)
- CXLII. **A binomial noised model for cluster validation**
Toledano-Kitai D., Avros R., Volkovich Z., WEBER G. W., Yahalom O.
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.24, no.3, pp.417-427, 2013 (SCI-Expanded)
- CXLIII. **Orthogonal array based performance improvement in the gravitational search algorithm**
Altinoz O. T., YILMAZ A. E., WEBER G. W.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.21, no.1, pp.174-185, 2013 (SCI-Expanded)

- CXLIV. **Investigating academic performance of migrant students: A system dynamics perspective with an application to Turkey**
Pedamallu C. S., Ozdamar L., AKAR H., Weber G., Ozsoy A.
INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, vol.139, no.2, pp.422-430, 2012 (SCI-Expanded)
- CXLV. **A classification problem of credit risk rating investigated and solved by optimisation of the ROC curve**
Kurum E., Yildirak K., Weber G.
CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, vol.20, no.3, pp.529-557, 2012 (SCI-Expanded)
- CXLVI. **Selection of representative SNP sets for genome-wide association studies: a metaheuristic approach**
Ustunkar G., Akyüz S., Weber G. W., Friedrich C. M., Aydin Son Y.
OPTIMIZATION LETTERS, vol.6, pp.1207-1218, 2012 (SCI-Expanded)
- CXLVII. **An application of the minimal spanning tree approach to the cluster stability problem**
Volkovich Z., Barzily Z., Weber G. -, Toledano-Kitai D., Avros R.
CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, vol.20, no.1, pp.119-139, 2012 (SCI-Expanded)
- CXLVIII. **Special Issue: 24th Mini-EURO Conference on Continuous Optimization and Information-Based Technologies in the Financial Sector, Izmir, Turkey, June 23-26, 2010 PREFACE**
KASIMBEYLİ R., Weber G., Dincer C.
OPTIMIZATION, vol.61, no.4, pp.359-360, 2012 (SCI-Expanded)
- CXLIX. **Predicting default probabilities in emerging markets by new conic generalized partial linear models and their optimization**
Weber G., Cavusoglu Z., Ozmen A.
OPTIMIZATION, vol.61, no.4, pp.443-457, 2012 (SCI-Expanded)
- CL. **CMARS: a new contribution to nonparametric regression with multivariate adaptive regression splines supported by continuous optimization**
Weber G., Batmaz I., Köksal G., Taylan P., Yerlikaya-Ozkurt F.
INVERSE PROBLEMS IN SCIENCE AND ENGINEERING, vol.20, pp.371-400, 2012 (SCI-Expanded)
- CLI. **Modern tools for the time-discrete dynamics and optimization of gene-environment networks**
DEFTERLİ Ö., Fuegenschuh A., Weber G. W.
COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, vol.16, no.12, pp.4768-4779, 2011 (SCI-Expanded)
- CLII. **RCMARS: Robustification of CMARS with different scenarios under polyhedral uncertainty set**
Ozmen A., Weber G. W., BATMAZ İ., Kropat E.
COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, vol.16, no.12, pp.4780-4787, 2011 (SCI-Expanded)
- CLIII. **Resampling approach for cluster model selection**
Volkovich Z., Barzily Z., Weber G., Toledano-Kitai D., Avros R.
MACHINE LEARNING, vol.85, pp.209-248, 2011 (SCI-Expanded)
- CLIV. **CMARS and GAM & CQP-Modern optimization methods applied to international credit default prediction**
Alp O. S., Buyukbeci E., Cekic A. I., Ozkurt F. Y., TAYLAN P., Weber G.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.235, no.16, pp.4639-4651, 2011 (SCI-Expanded)
- CLV. **Modeling, inference and optimization of regulatory networks based on time series data**
Weber G., DEFTERLİ Ö., ALPARSLAN GÖK S. Z., Kropat E.
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.211, no.1, pp.1-14, 2011 (SCI-Expanded)
- CLVI. **On the classical Maki-Thompson rumour model in continuous time**
Belen S., Kropat E., Weber G.
CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, vol.19, no.1, pp.1-17, 2011 (SCI-Expanded)
- CLVII. **A new approach to multivariate adaptive regression splines by using Tikhonov regularization and continuous optimization**
TAYLAN P., WEBER G. W., Ozkurt F. Y.
TOP, vol.18, no.2, pp.377-395, 2010 (SCI-Expanded)

- CLVIII. **On numerical optimization theory of infinite kernel learning**
Ozogur-Akyuz S., WEBER G. W.
JOURNAL OF GLOBAL OPTIMIZATION, vol.48, no.2, pp.215-239, 2010 (SCI-Expanded)
- CLIX. **Nonlinear regression model generation using hyperparameter optimization**
Strijov V., WEBER G. W.
COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.60, no.4, pp.981-988, 2010 (SCI-Expanded)
- CLX. **On the foundations of parameter estimation for generalized partial linear models with B-splines and continuous optimization**
TAYLAN P., Weber G., Liu L., Yerlikaya-Ozkurt F.
COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.60, no.1, pp.134-143, 2010 (SCI-Expanded)
- CLXI. **OPTIMIZATION APPLIED ON REGULATORY AND ECO-FINANCE NETWORKS - SURVEY AND NEW DEVELOPMENTS -**
Weber G., Kropat E., Tezel A., Belen S.
PACIFIC JOURNAL OF OPTIMIZATION, vol.6, no.2, pp.319-340, 2010 (SCI-Expanded)
- CLXII. **Inverse solution for parameter estimation of a dynamic volume spline based forehead skin model**
ULUSOY PARNAS İ., AKAGÜNDÜZ E., WEBER G. W.
INVERSE PROBLEMS IN SCIENCE AND ENGINEERING, vol.18, no.5, pp.585-612, 2010 (SCI-Expanded)
- CLXIII. **Infinite kernel learning via infinite and semi-infinite programming**
AKYÜZ S., Weber G. -.
OPTIMIZATION METHODS & SOFTWARE, vol.25, no.6, pp.937-970, 2010 (SCI-Expanded)
- CLXIV. **Estimation of parameters for dynamic volume spline models**
ULUSOY PARNAS İ., AKAGÜNDÜZ E., WEBER G. W.
INVERSE PROBLEMS IN SCIENCE AND ENGINEERING, vol.18, no.4, pp.499-519, 2010 (SCI-Expanded)
- CLXV. **A survey on OR and mathematical methods applied on gene-environment networks**
Weber G., Kropat E., ÖZTÜRK B., Gorgulu Z.
CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, vol.17, no.3, pp.315-341, 2009 (SCI-Expanded)
- CLXVI. **A Review on Data Mining and Continuous Optimization Applications in Computational Biology and Medicine**
Weber G., Ozogur-Akyuz S., Kropat E.
BIRTH DEFECTS RESEARCH PART C-EMBRYO TODAY-REVIEWS, vol.87, no.2, pp.165-181, 2009 (SCI-Expanded)
- CLXVII. **Pattern analysis for the prediction of fungal pro-peptide cleavage sites**
Ozogur-Akyuz S., Shawe-Taylor J., Weber G. -, Ogel Z. B.
DISCRETE APPLIED MATHEMATICS, vol.157, no.10, pp.2388-2394, 2009 (SCI-Expanded)
- CLXVIII. **A New Mathematical Approach in Environmental and Life Sciences: Gene-Environment Networks and Their Dynamics**
Weber G. -, Alparslan-Gok S. Z., Soyler B.
ENVIRONMENTAL MODELING & ASSESSMENT, vol.14, no.2, pp.267-288, 2009 (SCI-Expanded)
- CLXIX. **OR for better management of sustainable development**
Leopold-Wildburger U., Weber G., Zachariasen M.
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.193, no.3, pp.647-648, 2009 (SCI-Expanded)
- CLXX. **Continuous Optimization in Finance**
Weber G.
OPTIMIZATION, vol.58, no.3, pp.263-265, 2009 (SCI-Expanded)
- CLXXI. **On a Minimal Spanning, Tree Approach in the Cluster Validation Problem**
Barzily Z., Volkovich Z., ÖZTÜRK B., Weber G.
INFORMATICA, vol.20, no.2, pp.187-202, 2009 (SCI-Expanded)
- CLXXII. **17th EURO Mini Conference "Continuous Optimization in the Industry", Pecs, Hungary, June 29-July 1, 2005**
Illes T., Lopez M. A., Terlaky T., Voeroes J., Weber G.
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.191, no.3, pp.771-772, 2008 (SCI-Expanded)
- CLXXIII. **Optimization of gene-environment networks in the presence of errors and uncertainty with**

Chebychev approximation

Weber G. -, Taylan P., Alparslan-Gok S. Z., Oezoguer-Akyuz S., Akteke-Ozturk B.
TOP, vol.16, no.2, pp.284-318, 2008 (SCI-Expanded)

CLXXIV. Time-varying network optimization

Stein O., Still G., Terlaky T., Weber G.

CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, vol.16, no.2, pp.107-109, 2008 (SCI-Expanded)

CLXXV. Mathematical contributions to dynamics and optimization of gene-environment networks

Weber G., Tezel A., TAYLAN P., Soyler A., Cetin M.

OPTIMIZATION, vol.57, no.2, pp.353-377, 2008 (SCI-Expanded)

CLXXVI. New approaches to regression by generalized additive models and continuous optimization for modern applications in finance, science and technology

Taylan P., Weber G. -, Beck A.

OPTIMIZATION, vol.56, pp.675-698, 2007 (SCI-Expanded)

CLXXVII. Modeling gene regulatory networks with piecewise linear differential equations

Gebert J., Radde N., Weber G.

EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.181, no.3, pp.1148-1165, 2007 (SCI-Expanded)

CLXXVIII. Challenges of continuous optimization in theory and applications

Duer M., Karasozen B., Weber G.

EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.181, no.3, pp.1065-1068, 2007 (SCI-Expanded)

CLXXIX. Special issue on OR for better management of sustainable development

Pickl S., Weber G., Zachariasen M.

CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, vol.15, no.3, pp.221-222, 2007 (SCI-Expanded)

CLXXX. On generalized semi-infinite optimization of genetic networks

Weber G., Tezel A.

TOP, vol.15, no.1, pp.65-77, 2007 (SCI-Expanded)

CLXXXI. Optimization in data mining

Karasozen B., Rubinov A., Weber G.

EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.173, no.3, pp.701-704, 2006 (SCI-Expanded)

CLXXXII. On generalized semi-infinite programming - Discussion

Weber G. -, Tezel A.

TOP, vol.14, no.1, pp.48-55, 2006 (SCI-Expanded)

CLXXXIII. An algorithm to analyze stability of gene-expression patterns

Gebert J., Latsch M., Pickl S., Weber G., Wunschiers R.

DISCRETE APPLIED MATHEMATICS, vol.154, no.7, pp.1140-1156, 2006 (SCI-Expanded)

CLXXXIV. Feature cluster "Advances in continuous optimization"

Karasozen B., Weber G., Pinar M., Terlaky T.

EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.169, no.3, pp.1077-1078, 2006 (SCI-Expanded)

CLXXXV. Control and optimal response problems for quasilinear impulsive integrodifferential equations

Akhmet M., Kirane M., Tleubergenova M., Weber G.

EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.169, no.3, pp.1128-1147, 2006 (SCI-Expanded)

Articles Published in Other Journals

I. An Introduction to the Special Issue "Recent advances on supply chain network design"

Lotfi R., Weber G.

Foundations of Computing and Decision Sciences, vol.47, no.4, pp.323-326, 2022 (ESCI)

II. Preface: Special Issue on Modeling, Simulation, and Optimization in Operational Research

Weber G., Thomas J. J., Saucedo J. A. M., Fiore U., Litvinchev I., Vasant P.

JOURNAL OF THE OPERATIONS RESEARCH SOCIETY OF CHINA, vol.10, no.4, pp.685-688, 2022 (ESCI)

III. Twenty years of EUROPT, the EURO working group on Continuous Optimization

Cafieri S., Tchemisova T., Weber G.

EURO Journal on Computational Optimization, vol.10, 2022 (ESCI)

- IV. **An Introduction to the Special Issue on Numerical Techniques Meet with OR - Part II**
Gurbuz B., Weber G.
FOUNDATIONS OF COMPUTING AND DECISION SCIENCES, vol.46, no.3, pp.201-204, 2021 (ESCI)
- V. **On building two-player games with treatment schedules for the sir model**
Hamidoğlu A., Taghiyev M. H., Weber G. W.
Azerbaijan Journal of Mathematics, vol.11, no.2, pp.39-47, 2021 (ESCI)
- VI. **A ROBUST OPTIMIZATION MODEL FOR SUSTAINABLE AND RESILIENT CLOSED-LOOP SUPPLY CHAIN NETWORK DESIGN CONSIDERING CONDITIONAL VALUE AT RISK**
Lotfi R., Mehrjerdi Y. Z., Pishvae M. S., Sadeghieh A., Weber G.
NUMERICAL ALGEBRA CONTROL AND OPTIMIZATION, vol.11, no.2, pp.221-253, 2021 (ESCI)
- VII. **MULTI-OBJECTIVE LINGUISTIC-NEUTROSOPHIC MATRIX GAME AND ITS APPLICATIONS TO TOURISM MANAGEMENT**
Bhaumik A., Roy S. K., Weber G. W.
JOURNAL OF DYNAMICS AND GAMES, vol.8, no.2, pp.101-118, 2021 (ESCI)
- VIII. **NEW SOLUTIONS OF HYPERBOLIC TELEGRAPH EQUATION**
İNÇ M., Partohaghighi M., AKINLAR M. A., Weber G.
JOURNAL OF DYNAMICS AND GAMES, vol.8, no.2, pp.129-138, 2021 (ESCI)
- IX. **Editorial - Preface to the Special Issue on Numerical Techniques Meet with OR**
Gurbuz B., Weber G.
FOUNDATIONS OF COMPUTING AND DECISION SCIENCES, vol.46, no.1, pp.3-10, 2021 (ESCI)
- X. **An Integration of Neural Network and Shuffled Frog-Leaping Algorithm for CNC Machining Monitoring**
Goli A., Tirkolaee E. B., Weber G.
FOUNDATIONS OF COMPUTING AND DECISION SCIENCES, vol.46, no.1, pp.27-42, 2021 (ESCI)
- XI. **An exact and a heuristic approach for the transportation-p-facility location problem**
Das S. K., Roy S. K., Weber G. W.
COMPUTATIONAL MANAGEMENT SCIENCE, vol.17, no.3, pp.389-407, 2020 (ESCI)
- XII. **FOUNDATIONS OF SEMIALGEBRAIC GENE-ENVIRONMENT NETWORKS**
Kropat E., Weber G., Tirkolaee E. B.
JOURNAL OF DYNAMICS AND GAMES, vol.7, no.4, pp.253-268, 2020 (ESCI)
- XIII. **A discrete optimality system for an optimal harvesting problem**
Bakan H. O., Yilmaz F., Weber G.
COMPUTATIONAL MANAGEMENT SCIENCE, vol.14, no.4, pp.519-533, 2017 (ESCI)
- XIV. **BRIDGING THE GAP BETWEEN VARIATIONAL HOMOGENIZATION RESULTS AND TWO-SCALE ASYMPTOTIC AVERAGING TECHNIQUES ON PERIODIC NETWORK STRUCTURES**
Kropat E., Meyer-Nieberg S., Weber G.
NUMERICAL ALGEBRA CONTROL AND OPTIMIZATION, vol.7, no.3, pp.223-250, 2017 (ESCI)
- XV. **Computational networks and systems - Homogenization of self-adjoint differential operators in variational form on periodic networks and micro-architected systems**
Kropat E., Meyer-Nieberg S., Weber G.
NUMERICAL ALGEBRA CONTROL AND OPTIMIZATION, vol.7, no.2, pp.139-169, 2017 (ESCI)
- XVI. **A TWO-ECHELON INVENTORY MODEL WITH STOCK-DEPENDENT DEMAND AND VARIABLE HOLDING COST FOR DETERIORATING ITEMS**
Pervin M., Roy S. K., Weber G. W.
NUMERICAL ALGEBRA CONTROL AND OPTIMIZATION, vol.7, no.1, pp.21-50, 2017 (ESCI)
- XVII. **SINGULARLY PERTURBED DIFFUSION-ADVECTION-REACTION PROCESSES ON EXTREMELY LARGE THREE-DIMENSIONAL CURVILINEAR NETWORKS WITH A PERIODIC MICROSTRUCTURE - EFFICIENT SOLUTION STRATEGIES BASED ON HOMOGENIZATION THEORY**
Kropat E., Meyer-Nieberg S., Weber G.

NUMERICAL ALGEBRA CONTROL AND OPTIMIZATION, vol.6, no.2, pp.183-219, 2016 (ESCI)

XVIII. Featured papers on operational research and ethics

Wenstop F., Miralles C., Weber G.

EURO JOURNAL ON DECISION PROCESSES, vol.4, pp.1-3, 2016 (ESCI)

XIX. Energy Modeling and Computations in the Building Envelope

Yilmaz Y., Weber G., Vasant P.

INTERNATIONAL JOURNAL OF ENERGY OPTIMIZATION AND ENGINEERING, vol.5, no.2, pp.85-86, 2016 (ESCI)

XX. Lanczos bidiagonalization-based inverse solution methods applied to electrical imaging of the heart by using reduced lead-sets: A simulation study

GHARBALCHĪ F., Dogrusoz Y., Weber G. W.

COGENT MATHEMATICS, vol.3, 2016 (ESCI)

XXI. Regression analysis for clusters in gene-environment networks based on ellipsoidal calculus and optimization

Kropat E., Weber G., Rückmann J.

Dynamics of Continuous, Discrete and Impulsive Systems Series B: Applications and Algorithms, vol.17, no.5, pp.639-657, 2010 (Scopus)

XXII. Financial regression and organization

Weber G., Taylan P., Yldrak K., Görgülü Z.

Dynamics of Continuous, Discrete and Impulsive Systems Series B: Applications and Algorithms, vol.17, no.1, pp.149-174, 2010 (Scopus)

XXIII. Risk-constrained dynamic portfolio management

Akume D., Weber G.

Dynamics of Continuous, Discrete and Impulsive Systems Series B: Applications and Algorithms, vol.17, no.1, pp.113-129, 2010 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

I. PREDICTION OF HEART DISEASE USING CLASSIFICATION AND FEATURE SELECTION METHODS

Akarçay Pervin Ö., Yapici Pehlivan N., Weber G. W.

17th International Symposium on Operational Research in Slovenia, SOR 2023, Bled, Slovenia, 20 - 22 September 2023, pp.289-292

II. Social Entrepreneurship Business Models for Handicapped People—Polish & Turkish Case Study of Sharing Public Goods by Doing Business

Czerkowski D., Małecka J., Weber G., Kjamili B.

6th International Conference on Dynamics Games and Science, DGS-VI-2018, 19th Latin American Conference on Economic Theory, JOLATE 2018 and 21st International Consortium on Applied Bioeconomy Research, ICABR 2017, California, United States Of America, 30 May - 02 June 2017, vol.365, pp.163-186

III. Multi-objective Aggregate Production Planning Model Considering Overtime and Outsourcing Options Under Fuzzy Seasonal Demand

Tirkolaee E. B., Goli A., Weber G.

6th International Scientific-Technical Conference on Advances in Manufacturing II (MANUFACTURING), Poznan, Poland, 19 - 22 May 2019, pp.81-96

IV. Robustness of Reduced Order Non-Parametric Model for Inverse ECG Solution Against Modeling and Measurement Noise

Onak O. N., Dogrusoz Y., Weber G. W.

45th Computing in Cardiology Conference (CinC), Maastricht, Netherlands, 23 - 26 September 2018

V. Effect of the Geometric Inaccuracy in Multivariate Adaptive Regression Spline-based Inverse ECG Solution Approach

Onak O. N., SERİNAĞAOĞLU DOĞRUSÖZ Y., Weber G. W.

44th Computing in Cardiology Conference (CinC), Rennes, France, 24 - 27 September 2017

- VI. **Iterative methods for tomography problems: implementation to a cross-well tomography problem**
Karadeniz M. F., Weber G. W.
4th International Conference on Operational Research (InteriOR), Medan, Indonesia, 21 - 23 August 2017, vol.300
- VII. **A Geometrical Approach to Forecast Burst-time of Stock Market Bubbles**
KÜRÜM E., WEBER G. W., İYİĞÜN C.
21st IFORS Annual Meeting, 17 July - 21 January 2017
- VIII. **Mathematical modelling for wave drag optimization and design of high-speed aircrafts**
Citak C., ÖZGEN S., Weber G. W.
3rd International Conference on Dynamics, Games and Science, DGS 2014, Porto, Portugal, 17 - 21 February 2014, vol.195, pp.109-132
- IX. **ESTIMATION OF SUBPIXEL SNOW-COVERED AREA BY NONPARAMETRIC REGRESSION SPLINES**
KUTER S., AKYÜREK S. Z., Weber G. W.
3rd International GeoAdvances Workshop / ISPRS Workshop on Multi-dimensional and Multi-Scale Spatial Data Modeling, İstanbul, Turkey, 16 - 17 October 2016, pp.31-36
- X. **Automatic Definition of Optimal Default Parameters of Models: Image Matting Application**
Ravve E. V., Volkovich Z., Weber G.
17th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), Timisoara, Romania, 21 - 24 September 2015, pp.251-254
- XI. **Incremental Reasoning on Strongly Distributed Multi-Agent Systems**
Ravve E. V., Volkovich Z., Weber G.
17th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), Timisoara, Romania, 21 - 24 September 2015, pp.415-422
- XII. **A NEW ALGORITHM FOR SCHEDULING CONDITION-BASED MAINTENANCE OF GAS TURBINES**
Yilmaz Y., Kurz R., Ozmen A., Weber G.
ASME Turbo Expo: Turbine Technical Conference and Exposition, Montreal, Canada, 15 - 19 June 2015
- XIII. **Vester's Sensitivity Model for Genetic Networks with Time-Discrete Dynamics**
Moreno L. A., DEFTERLİ Ö., Fuegenschuh A., Weber G.
1st International Conference on Algorithms for Computational Biology (AlCoB), Tarragona, Spain, 1 - 03 July 2014, vol.8542, pp.35-46
- XIV. **An Axiomatization of the Interval Shapley Value and on Some Interval Solution Concepts**
PALANCI O., ALPARSLAN GÖK S. Z., Weber G.
8th International Conference on Game Theory and Management, St Petersburg, Russia, 25 - 27 June 2014, vol.8, pp.243-251
- XV. **Desirability Functions in Multiresponse Optimization**
ÖZTÜRK B., Weber G., KÖKSAL G.
30th Euro Mini-Conference on Optimization in the Natural Sciences (EmC-ONS), Aveiro, Portugal, 5 - 09 February 2014, vol.499, pp.129-146
- XVI. **ROBUST CONIC GENERALIZED PARTIAL LINEAR MODELS USING RCMARS METHOD - A ROBUSTIFICATION OF CGPLM**
Ozmen A., Weber G. W.
6th Global Conference on Power Control and Optimization, Nevada, United States Of America, 6 - 08 August 2012, vol.1499, pp.337-343
- XVII. **Electricity Price Modelling for Turkey**
Yildirim M. H., Ozmen A., TÜRKER BAYRAK Ö., Weber G. W.
International Conference on Operations Research (OR), Zürich, Switzerland, 30 August - 02 September 2011, pp.39-44
- XVIII. **Evidence Optimization for Consequently Generated Models**
Strijov V., Krymova K., Weber G. W.
4th Global Conference on Power Control and Optimization (PCO), Kuching, Malaysia, 2 - 04 December 2010, vol.1337, pp.204-205
- XIX. **Analysis of SNP-Complex Disease Association by a Novel Feature Selection Method**

Ustunkar G., AKYÜZ S., Weber G. -, AYDIN SON Y.

Annual International Conference of the German-Operations-Research-Society (GOR), Neubiberg, Germany, 1 - 03 September 2010, pp.21-26

XX. OR in Life Sciences and Education - Trends, History and Ethics

Weber G. W.

Annual International Conference of the German-Operations-Research-Society (GOR), Neubiberg, Germany, 1 - 03 September 2010, pp.589

XXI. Combination of conventional regularization methods and genetic algorithm for solving the inverse problem of electrocardiography

Sarikaya S., Weber G., Doğrusöz Y.

2010 5th International Symposium on Health Informatics and Bioinformatics, HIBIT 2010, Antalya, Turkey, 20 - 22 April 2010, pp.13-20

XXII. A MULTI OBJECTIVE MODEL FOR OPTIMIZATION OF A GREEN SUPPLY CHAIN NETWORK

PAKSOY T., Özceylan E., Weber G.

3rd Global Conference on Power Control and Optimization, Gold-Coast, Australia, 2 - 04 February 2010, vol.1239, pp.311-320

XXIII. ON AN ADJACENCY CLUSTER MERIT

Volkovich Z. (., Weber G., Avros R.

3rd Global Conference on Power Control and Optimization, Gold-Coast, Australia, 2 - 04 February 2010, vol.1239, pp.361-366

XXIV. ON FOUNDATIONS OF PARAMETER ESTIMATION FOR GENERALIZED PARTIAL LINEAR MODELS WITH B-SPLINES AND CONTINUOUS OPTIMIZATION

TAYLAN P., Weber G., Liu L.

3rd Global Conference on Power Control and Optimization, Gold-Coast, Australia, 2 - 04 February 2010, vol.1239, pp.297-304

XXV. OPTIMIZATION OF DESIRABILITY FUNCTIONS AS A DNLP MODEL BY GAMS/BARON

ÖZTÜRK B., KÖKSAL G., Weber G. W.

3rd Global Conference on Power Control and Optimization, Gold-Coast, Australia, 2 - 04 February 2010, vol.1239, pp.305-310

XXVI. EVALUATING THE CMARS PERFORMANCE FOR MODELING NONLINEARITIES

BATMAZ İ., Yerlikaya-Ozkurt F., Kartal-Koc E., Koksall G., Weber G.

3rd Global Conference on Power Control and Optimization, Gold-Coast, Australia, 2 - 04 February 2010, vol.1239, pp.351-357

XXVII. A SYSTEM DYNAMICS MODEL TO STUDY THE IMPORTANCE OF INFRASTRUCTURE FACILITIES ON QUALITY OF PRIMARY EDUCATION SYSTEM IN DEVELOPING COUNTRIES

Pedamallu C. S., Ozdamar L., Weber G., Kropat E.

3rd Global Conference on Power Control and Optimization, Gold-Coast, Australia, 2 - 04 February 2010, vol.1239, pp.321-325

XXVIII. The new Robust CMARS (RCMARS) method

Özmen A., Weber G., BATMAZ İ.

24th Mini EURO Conference on Continuous Optimization and Information-Based Technologies in the Financial Sector, MEC EuroPT 2010, İzmir, Turkey, 23 - 26 June 2010, pp.362-368

XXIX. On cooperative ellipsoidal games

Weber G., Branzei R., ALPARSLAN GÖK S. Z.

24th Mini EURO Conference on Continuous Optimization and Information-Based Technologies in the Financial Sector, MEC EuroPT 2010, İzmir, Turkey, 23 - 26 June 2010, pp.369-372

XXX. CLUSTER STABILITY ESTIMATION BASED ON A MINIMAL SPANNING TREES APPROACH

Volkovich Z. (., Barzily Z., Weber G., Toledano-Kitai D.

2nd Global Conference on Power Control and Optimization, Balvi, Latvia, 1 - 03 June 2009, vol.1159, pp.299-301

XXXI. MODELLING OF KERNEL MACHINES BY INFINITE AND SEMI-INFINITE PROGRAMMING

Ozogur-Akyuz S., Weber G. -.

- 2nd Global Conference on Power Control and Optimization, Balvi, Latvia, 1 - 03 June 2009, vol.1159, pp.306-313
- XXXII. **Parameter Estimation in Stochastic Differential Equations**
Weber G. -, TAYLAN P., Goerguelue Z. -, Abd Rahman H., Bahar A.
International Conference DYNA 2008, Braga, Portugal, 8 - 12 September 2008, vol.2, pp.703-707
- XXXIII. **Dynamical Gene-Environment Networks Under Ellipsoidal Uncertainty: Set-Theoretic Regression Analysis Based on Ellipsoidal OR**
Kropat E., Weber G., Belen S.
International Conference on Dynamical Systems and Game Theory in Honor of Mauricio Peixoto and David Rand, Braga, Portugal, 8 - 12 September 2008, vol.1, pp.545-571
- XXXIV. **Learning with infinitely many kernels via semi-infinite programming**
Oezoeguer-Akyuez S., Weber G. W.
20th International Conference/Euro Mini Conference on Continuous Optimization and Knowledge-Based Technologies (EuroOPT 2008), Neringa, Lithuania, 20 - 23 May 2008, pp.342-348
- XXXV. **Semi-infinite and conic optimization in modern human, life and financial sciences under uncertainty**
Weber G., Kropat E., Alparslan-Goek S. Z.
20th International Conference/Euro Mini Conference on Continuous Optimization and Knowledge-Based Technologies (EuroOPT 2008), Neringa, Lithuania, 20 - 23 May 2008, pp.180-181
- XXXVI. **Continuous optimization applied in MARS for modern applications in finance, science and technology**
Taylan P., Weber G., Yerlikaya F.
20th International Conference/Euro Mini Conference on Continuous Optimization and Knowledge-Based Technologies (EuroOPT 2008), Neringa, Lithuania, 20 - 23 May 2008, pp.317-318
- XXXVII. **Cluster stability using minimal spanning trees**
Barzily Z., Volkovich Z., Akteke-Oeztuerk B., Weber G.
20th International Conference/Euro Mini Conference on Continuous Optimization and Knowledge-Based Technologies (EuroOPT 2008), Neringa, Lithuania, 20 - 23 May 2008, pp.248-249
- XXXVIII. **Continuous optimization approaches for clustering via minimum sum of squares**
Akteke-Ozturk B., Weber G., Kropat E.
20th International Conference/Euro Mini Conference on Continuous Optimization and Knowledge-Based Technologies (EuroOPT 2008), Neringa, Lithuania, 20 - 23 May 2008, pp.253-254
- XXXIX. **An anticipatory extension of Malthusian model**
AKHMET M., ÖKTEM H. A., Pickl S. W., WEBER G. W.
7th International Conference on Computing Anticipatory Systems (CASYS 05), Liege, Belgium, 8 - 13 August 2005, vol.839, pp.260-262
- XL. **Mathematical Modeling and Approximation of Gene Expression Patterns**
YILMAZ F., ÖKTEM H. A., WEBER G. W.
Annual International Conference of the German-Operations-Research-Society, Tilburg, Netherlands, 1 - 03 September 2004, pp.280-287

Supported Projects

WEBER G. W., AYDIN N. S., ÖZ H., AKDOĞAN E., KOZPINAR S., SAVKU E., Project Supported by Higher Education Institutions, Finansal, Ekonomik ve Çevresel Süreçlere Ait Sıçramalı Stokastik Hibrit Sistemler: Tanımlama, Optimizasyon ve Optimal Kontrol, 2016 - 2016

WEBER G. W., ÖZ H., KARIMOV A., ÖZMEN A., AYDIN N. S., KÖKSAL E., SAVKU E., Project Supported by Higher Education Institutions, Finansal, Ekonomik ve Çevresel Süreçlere Ait Atlamalı Stokastik Hibrit Sistemler: Tanımlama, Optimizasyon ve Optimal Kontrol, 2015 - 2015

WEBER G. W., Karimov A., Kürüm E., Aydın N. S., KUTER S., Öz H., Aslan M. H., Yerlikaya - Özkurt F., Özmen A., Project Supported by Higher Education Institutions, Finansal, Ekonomik ve Çevresel Süreçlere yönelik Atlamalı Stokastik Hibrit Sistemlerin Tanımlanması, Optimizasyonu ve Kontrolü, 2014 - 2014

WEBER G. W., Yerlikaya Özkurt F., Özmen A., YOLCU OKUR Y., Karimov A., KUTER S., Project Supported by Higher

Education Institutions, Stochastic Hybrid Systems of Financial and Economical Processes: Identified, Optimized and Controlled, 2013 - 2013

WEBER G. W., Project Supported by Higher Education Institutions, Unified And Hybrid Approaches To Identification, Optimization And Control Of Stochastic Financial Processes-Theory, Methods And Applications., 2012 - 2012

WEBER G. W., Project Supported by Higher Education Institutions, Advanced Mathematical Methods Of Early Warning Systems And Quality Control By New Methods Of Data Mining Stochastics And Optimization With Applications In Finance, Industry And The Environment, 2011 - 2011

WEBER G. W., Project Supported by Higher Education Institutions, Identification, Optimization and Control of Stochastic Differential Equations in Financial Mathematics, 2010 - 2010

WEBER G. W., Project Supported by Higher Education Institutions, Advanced Mathematical Methods of Financial Risk Management Investigated and Solved by New Methods of Stochastic Calculus, Mathematical Statistics and Optimization, 2010 - 2010

WEBER G. W., Project Supported by Higher Education Institutions, Advanced Mathematical Methods of Quality Analysis and Improvement by New Methods of Computational Statistics and with Applications in Manufacturing and Finance, 2010 - 2010

WEBER G. W., Project Supported by Higher Education Institutions, Parameter Estimation For Actuarial Sciences And Financial Mathematics In Stochastic Differential Equations By Additive And Nonlinear Models And Continuous Optimization, 2009 - 2009

WEBER G. W., Project Supported by Higher Education Institutions, İstatistik Ve Veri Madenciliğinde Karşılaşılan Genelleştirilmiş Modellerin Eniyileme Ve Ters Problemler Yöntemleriyle Çözümü, 2009 - 2009

WEBER G. W., Project Supported by Higher Education Institutions, A Classification Problem Of Credit Risk Rating Investigated And Solved By New Methods Of Statistical Learning And Optimization, 2009 - 2009

Metrics

Publication: 248

Citation (WoS): 3237

Citation (Scopus): 1614

H-Index (WoS): 32

H-Index (Scopus): 22