Davide LA TORRE
Professor

Academy: Digitalization

Research center: SKEMA Centre for Analytics and Management Science

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Research interests

Artificial Intelligence, Applied Mathematics, Mathematical and Statistical Modeling, Engineering Mathematics, Operations Research, Mathematical Economics, Mathematical Medicine, Optimisation and Control

Teaching interests

Applied Mathematics, Calculus, Computer Science, Engineering Mathematics, Mathematical Analysis, Mathematical Imaging, Mathematical Modeling, Operations Research

Education

2023	Certification in the function of University Professor (Full Professor), Economic Theory (13 A1), Italy
2023	Certification in the function of University Professor (Associate Professor), Operations Research (01 A6), Italy
2022	Certification in the function of University-Professor (Full Professor) in Applied Mathematics (CNRS 26), France
2022	Certification in the function of University-Professor (Full Professor), Economics (CNRS 5), France
2022	Certification in the function of University-Professor (Full Professor), Computer science (CNRS 27), France
2021	HDR in Applied Mathematics, Université Côte d'Azur, France
2020	Certification in the function of University Professor (Associate Professor), Mathematical Analysis (01 A3), Italy
2018	Certification in the function of University Professor (Full Professor), Public Economics (13 A3), Italy
2018	Certification in the function of University Professor (Full Professor), Political Economy (13 A2), Italy
2012	Certification in the function of University Professor (Full Professor), Mathematical Methods for Economics and Finance (13 D4), Italy
2002	Ph.D. in Computational Mathematics and Operations Research, University of Milan, Italy
1997	Master in Applied and Industrial Mathematics, University of Milan, Italy
1993	Diploma (60/60) in Computer Science, ITIS Computer Science School, Italy

2022	Certificate in Artificial Intelligence in Health Care, Massachusetts Institute of Technology (MIT), United States of America
2021	Certificate in Quantum Computing Fondamentals, Massachusetts Institute of Technology (MIT), United States of America
2021	Certificate in Machine Learning, Modeling, and Simulation: Engineering Problem-Solving in the Age of AI, Massachusetts Institute of Technology (MIT), United States of America
2021	Certificate in Machine Learning, Modeling, and Simulation Principles, Massachusetts Institute of Technology (MIT), United States of America
2021	Certificate in Applying Machine Learning to Engineering and Science, Massachusetts Institute of Technology (MIT), United States of America
2021	Certificate in Quantum Algorithms for Cybersecurity, Chemistry, and Optimization, Massachusetts Institute of Technology (MIT), United States of America
2017	Certificate in Big Data and Social Analytics, Massachusetts Institute of Technology (MIT), United States of America
2017	Certificate in Project Management, University of Adelaide, Australia
2017	Certificate in Supply Chain Analytics, Massachusetts Institute of Technology (MIT), United States of America

Experience

Full-time academic positions

Since 2019	Full Professor (HDR with CNRS Professeur des Universités qualifications) of Applied Mathematics and Artificial Intelligence, SKEMA Business School, France
Since 2000	University Professor of Artificial Intelligence and Decision Sciences in Health and Medicine, Universita' degli Studi di Milano "La Statale", Italy
2018 - 2019	Full Professor, Dubai Business School, United Arab Emirates
2017 - 2018	Full Professor and Department Chair, Nazarbayev University, Kazakhstan
2013 - 2016	Associate Professor and Associate Department Chair (cross-appointed), Department of Applied Mathematics and Sciences, and Department of Industrial and System Engineering, Khalifa University, United Arab Emirates

Other academic affiliations and appointments

Since 2024	Member of the Doctoral School in Systems Medicine, Universita' degli Studi di Milano "La Statale", Italy
Since 2021	Radiomics Board Member, European Institute of Oncology, Italy
Since 2020	Visiting Professor and Member of the Scientific Committee of the Artificial Intelligence Institute, Abu Dhabi School of Management, United Arab Emirates
Since 2019	Track Coordinator - Finance Specialization - Two Year MSc, SKEMA Business School, France
Since 2015	Adjunct Professor, University of Waterloo, Canada
Since 2015	Member of the Doctoral School in Decision Sciences, Insubria University, Italy
2022 - 2023	Associate Dean, SKEMA Business School, France
2020 - 2023	Director of the Artificial Intelligence Institute, SKEMA Business School, France
2007 - 2023	Adjunct Professor, Department of Mathematics and Statistics, University of Guelph, Canada
2019 - 2022	Track Coordinator - L3/M1 PGE in Finance and Quants, SKEMA Business School, France
2020 - 2021	Track Coordinator - L3/M1 PGE in Artificial Intelligence for Managers, SKEMA Business School, France
2019	Visiting Professor, Universidad de Granada, Spain
2017 - 2018	Department Chair, Nazarbayev University, Kazakhstan
2012	Visiting Professor, Australian National University, Australia

Other academic affiliations and appointments

2008	Visiting Professor, Laurentian University, Canada
2008	Visiting Professor, University of York, Great Britain
2007	Visiting Professor, University of York, Great Britain
2007	Visiting Professor, Australian National University, Australia
2003 - 2005	Program Head - Master in International Economics and Finance, University of Milan, Italy
2003 - 2005	Program Head - Master in Data Analysis and Marketing Intelligence, University of Milan, Italy
2001 - 2003	Program Head - Master in Business Intelligence and Data Analysis, University of Milan, Italy

Research grants, Awards and Honors

Awards and Honors

2023	Best contribution to hybridization in AI, SKEMA Business School, France
2022	Most productive scholar award, SKEMA Business School, France
2021	Outstanding research award, SKEMA Business School, France
2015	Outstanding research award, Khalifa University, United Arab Emirates
2015	Outstanding research award, University of Milan, Italy

Research Grants

2013	Khalifa University KUIRF Level 2 (co-principal investigator), Khalifa University, United Arab Emirates

Publications

Peer-reviewed journal articles

LA TORRE, D., MENDIVIL, F. and ROCCA, M. (2024). Modeling portfolio efficiency using stochastic optimization with incomplete information and partial uncertainty. *Annals of Operations Research*, 334(1-3), pp. 241-263.

BROEKAERT, J., LA TORRE, D. and HAFIZ, F. (2024). Competing control scenarios in probabilistic SIR epidemics on social-contact networks. *Annals of Operations Research*, 336, pp. 2037-2060.

LA TORRE, D., MARSIGLIO, S., MENDIVIL, F. and PRIVILEGGI, F. (2024). Stochastic disease spreading and containment policies under state-dependent probabilities. *Economic Theory*, 77, pp. 127-168.

LA TORRE, D., MARSIGLIO, S. and PRIVILEGGI, F. (2024). Infectious diseases and social distancing under state-dependent probabilities. *Annals of Operations Research*, 337(3), pp. 993-1008.

CAMACHO, C., DESBORDES, R. and LA TORRE, D. (2024). A time-space integro-differential economic model of epidemic control. *Economic Theory*, 77(1-2), pp. 307-348.

LA TORRE, D., LIUZZI, D. and MARSIGLIO, S. (2024). Epidemic outbreaks and the optimal lockdown area: a spatial normative approach. *Economic Theory*, 77, pp. 349-411.

HAFIZ, F., BROEKAERT, J., LA TORRE, D. and SWAIN, A. (2024). A multi-criteria approach to evolve sparse neural architectures for stock market forecasting. *Annals of Operations Research*, 167(106680), pp. 1-45.

BROEKAERT, J., LA TORRE, D. and HAFIZ, F. (2024). The impact of the psychological effect of infectivity on Nash-balanced control strategies for epidemic networks. *Annals of Operations Research*.

FRASCA, M., LA TORRE, D., PRAVETTONI, G. and CUTICA, I. (2024). Explainable and interpretable artificial intelligence in medicine: a systematic bibliometric review. *Discover Artificial Intelligence*, 4(15), pp. 1-21.

LA TORRE, D., ZUCCOTTO, M., CASTELLINI, A., MOLA, L. and FARINELLI, A. (2024). Reinforcement learning applications in environmental sustainability: a review. *Artificial Intelligence Review*, 57(88), pp. 1-68.

MARVASO, G., ISAKSSON, L.J., ZAFFARONI, M., VINCINI, M.G., SUMMERS, P.E., PEPA, M. ... JERECZEK-FOSSA, B.A. (2024). Can we predict pathology without surgery? Weighing the added value of multiparametric MRI and whole prostate radiomics in integrative machine learning models. *European Radiology*.

BROEKAERT, J., LA TORRE, D., HAFIZ, F. and REPETTO, M. (2024). A comparative cost assessment of coalescing epidemic control strategies in heterogeneous social-contact networks. *Computers & Operations Research*.

BERENGUER, M.I., GAMEZ, D., KUNZE, H., LA TORRE, D. and RUIZ GALAN, M. (2024). Solving direct and inverse problems for Fredholm-type integro-differential equations with application to pollution diffusion modeling. *Mathematics and Computers in Simulation*, 223, pp. 394-404.

FRASCA, M., LA TORRE, D., PRAVETTONI, G. and CUTICA, I. (2024). Combining convolution neural networks with long-short term memory layers to predict Parkinson's disease progression. *International Transactions in Operational Research*, pp. 1-30.

FRASCA, M. and LA TORRE, D. (2024). An extended Daugman's algorithm for iris with eye pathology recognition. *Expert Systems with Applications*, 252, Part A(124160), pp. 1-12.

DE FRUTOS, J., LA TORRE, D., LIUZZI, D., MARSIGLIO, S. and MARTÍN-HERRAN, G. (2024). Balancing mitigation policies during pandemics: economic, health, and environmental implications. *Annals of Operations Research*.

LA TORRE, D., MAGGISTRO, R. and MARSIGLIO, S. (2024). Transboundary pollution control under evolving social norms: a mean-field approach. *Decisions in Economics and Finance*.

FRASCA, M., LA TORRE, D., REPETTO, M., DE NICOLÒ, V., PRAVETTONI, G. and CUTICA, I. (2024). Artificial intelligence applications to genomic data in cancer research: a review of recent trends and emerging areas. *Discover Analytics*, 2(1), pp. 1-10.

LA TORRE, D. and MAGGISTRO, R. (2024). Multi-agent dynamic financial portfolio management: a differential game approach. *Annals of Operations Research*, pp. 1-22.

BRYSON, B., KUNZE, H., LA TORRE, D. and LIUZZI, D. (2023). A Generalized Multiple Criteria Data-Fitting Model With Sparsity and Entropy With Application to Growth Forecasting. *IEEE Transactions on Engineering Management*, 70(5), pp. 1900-1911.

BEN ABDELAZIZ, F. and LA TORRE, D. (2023). Robust generalized Merton-type financial portfolio models with generalized utility. *Annals of Operations Research*, 330, pp. 55-72.

LA TORRE, D., COLAPINTO, C., DUROSINI, I. and TRIBERTI, S. (2023). Team Formation for Human-Artificial Intelligence Collaboration in the Workplace: A Goal Programming Model to Foster Organizational Change. *IEEE Transactions on Engineering Management*, 70(5), pp. 1966-1976.

BRUSSET, X., JEBALI, A. and LA TORRE, D. (2023). Production optimisation in a pandemic context. *International Journal of Production Research*, 61(5), pp. 1642-1663.

BRUSSET, X., DAVARI, M., KINRA, A. and LA TORRE, D. (2023). Modelling ripple effect propagation and global supply chain workforce productivity impacts in pandemic disruptions. *International Journal of Production Research*, 61(8), pp. 2493-2512.

BRUSSET, X., JEBALI, A., LA TORRE, D. and LIUZZI, D. (2023). Production optimization in the time of pandemic: an SIS-based optimal controlmodel with protection effort and cost minimization. *Annals of Operations Research*.

TRIBERTI, S., LA TORRE, D. and RIVA, G. (2023). The Artificial Face (ART-F) Project: Addressing the Problem of Interpretability, Interface, and Trust in Artificial Intelligence. *Cyberpsychology, Behavior, and Social Networking*, 26(4), pp. 318-320.

BUCCI, A., LA TORRE, D., LIUZZI, D. and MARSIGLIO, S. (2023). A network-based economic growth model with endogenous migration and poverty traps. *Metroeconomica*, 74(4), pp. 833-857.

HAFIZ, F., BROEKAERT, J., LA TORRE, D. and SWAIN, A. (2023). Co-evolution of Neural Architectures and Features for Stock Market Forecasting: A Multi-objective Decision Perspective. *Decision Support Systems*, 174, pp. 114015.

BRUSSET, X., IVANOV, D., JEBALI, A., LA TORRE, D. and REPETTO, M. (2023). A dynamic approach to supply chain reconfiguration and ripple effect analysis in an epidemic. *International Journal of Production Economics*, 263, pp. 108935.

BERENGUER, M.I., GAMEZ, D., GARRALDA-GUILLEM, A.I., KUNZE, H., LA TORRE, D. and RUIZ GALAN, M. (2023). Solving inverse problems for mixed-variational equations on perforated domains. *Computational and Applied Mathematics*, 42(297).

VINCINI, M.G., MARVASO, G., ISAKSSON, L.J., ZAFFARONI, M., PEPA, M., CORRAO, G. ... JERECZEK-FOSSA, B.A. (2023). PO-2101 Added Value Of MRI Radiomics To Predict Pathological Status Of Prostate Cancer Patients. *Radiotherapy and Oncology*, 182(1), pp. S1884-S1886.

VOLPE, S., ZAFFARONI, M., PIPERNO, G., VINCINI, M.G., ZERELLA, M.A., MASTROLEO, F. ... JERECZEK-FOSSA, B.A. (2023). Multi-omics integrative modelling for stereotactic body radiotherapy in early-stage non-small cell lung cancer: clinical trial protocol of the MONDRIAN study. *BMC Cancer*, 23(1), pp. 1236.

ISAKSSON, L.J., REPETTO, M., SUMMERS, P.E., PEPA, M., ZAFFARONI, M., VINCINI, M.G. ... JERECZEK-FOSSA, B.A. (2023). High-performance prediction models for prostate cancer radiomics. *Informatics in Medicine Unlocked*, 37, pp. 101161.

VINCINI, M.G., MARVASO, G., ISAKSSON, L.J., ZAFFARONI, M., PEPA, M., CORRAO, G. ... JERECZEK-FOSSA, B.A. (2023). Added value of MRI radiomics to predict pathological status of prostate cancer patients. *European Urology*, 83, pp. S1799-S1800.

KUNZE, H. and LA TORRE, D. (2022). Solving inverse problems for steady-state equations using a multiple criteria model with collage distance, entropy, and sparsity. *Annals of Operations Research*, 311, pp. 1051–1065.

LA TORRE, D. and MENDIVIL, F. (2022). Stochastic efficiency and inefficiency in portfolio optimization with incomplete information: a set-valued probability approach. *Annals of Operations Research*, 311, pp. 1085–1098.

KUNZE, H., LA TORRE, D. and MARSIGLIO, S. (2022). Sustainability and spatial spillovers in a multicriteria macroeconomics model. *Annals of Operations Research*, 311, pp. 1067–1084.

LA TORRE, D., LIUZZI, D., MAGGISTRO, R. and MARSIGLIO, S. (2022). Mobility Choices and Strategic Interactions in a Two-Group Macroeconomic-Epidemiological Model. *Dynamic Games and Applications*, 12, pp. 110-132.

LA TORRE, D., LIUZZI, D. and MARSIGLIO, S. (2022). Geographical heterogeneities and externalities in an epidemiological-macroeconomic framework. *Journal of Public Economic Theory*, 24(5), pp. 1154-1181.

BRUSSET, X., JEBALI, A., LA TORRE, D. and MAZAHIR, S. (2022). Optimal Pollution Control in a Dynamic Multi-echelon Supply Chain. *Environmental Modelling and Assessment*, 27, pp. 585-598.

LA TORRE, D., LIUZZI, D., REPETTO, M. and ROCCA, M. (2022). Enhancing deep learning algorithm accuracy and stability using multicriteria optimization: an application to distributed learning with MNIST digits. *Annals of Operations Research*.

LA TORRE, D., BEN ABDELAZIZ, F. and ALAYA, H. (2021). Dynamic Programming and Optimal Control for Vector-Valued Functions: A State-of-the-art Review. *RAIRO - Operations Research*, 55, pp. 351-364.

LA TORRE, D., LIUZZI, D. and MARSIGLIO, S. (2021). Epidemics and macroeconomic outcomes: Social distancing intensity and duration. *Journal of Mathematical Economics*, 93, pp. 102473.

OTERO, D., LA TORRE, D., MICHAILOVICH, O. and VRSCAY, E. (2021). Optimization of structural similarity in mathematical imaging. *Optimization and Engineering*, 22, pp. 2367-2401.

LA TORRE, D., MARSIGLIO, S., MENDIVIL, F. and PRIVILEGGI, F. (2021). Public Debt Dynamics under Ambiguity by Means of Iterated Function Systems on Density Functions. *Discrete and Continuous Dynamical Systems Series B*, 26(11), pp. 5873-5903.

LI, D., LA TORRE, D. and VRSCAY, E. (2021). The intensity-based measure approach to "Weberize" L2-based methods of signal and image approximation. *Optimization and Engineering*, 22, pp. 2321-2347.

URBANIAK, I.A., KUNZE, A., LI, D., LA TORRE, D. and VRSCAY, E. (2021). The use of intensity-dependent weight functions to "Weberize" L2-based methods of signal and image approximation. *Optimization and Engineering*, 22, pp. 2349-2365.

LA TORRE, D., LIUZZI, D. and MARSIGLIO, S. (2021). Transboundary pollution externalities: Think globally, act locally? *Journal of Mathematical Economics*, 96, pp. 102511.

KHAN, F. and LA TORRE, D. (2021). Quantum information technology and innovation: a brief history; current state and future perspectives for business and management. *Technology Analysis and Strategic Management*, 33(11), pp. 1281-1289.

KUNZE, H., LA TORRE, D. and GALÁN, M.R. (2021). Optimization methods in inverse problems and applications to science and engineering. *Optimization and Engineering*, 22(4), pp. 2151-2158.

COLAPINTO, C., JAYARAMAN, R. and LA TORRE, D. (2020). A goal programming model to study the impact of R&D expenditures on sustainability-related criteria: the case of Kazakhstan. *Management Decision*, 58(11), pp. 2497-2512.

LA TORRE, D. and MARSIGLIO, S. (2020). A note on optimal debt reduction policies. *Macroeconomic Dynamics*, 24(7), pp. 1850-1860.

BEN ABDELAZIZ, F., COLAPINTO, C., LA TORRE, D. and LIUZZI, D. (2020). A Stochastic Dynamic Multiobjective Model for Sustainable Decision Making. *Annals of Operations Research*, 293, pp. 539-556.

LA TORRE, D., MARCOUX, J., MENDIVIL, F. and VRSCAY, E. (2020). Denoising of diffusion magnetic resonance images using a modified and differentiable Monge-Kantorovich distance for measure-valued images. *Communications in Nonlinear Science and Numerical Simulation*, 91, pp. 105456.

COLAPINTO, C., JAYARAMAN, R., BEN ABDELAZIZ, F. and LA TORRE, D. (2020). Environmental Sustainability and Multifaceted Development: Multi-Criteria Decision Models with Applications. *Annals of Operations Research*, 293, pp. 405-432.

LA TORRE, D., BOUBAKER, S., PÉREZ GLADISH, B. and ZOPOUNIDIS, C. (2020). Multidimensional Finance, Insurance and Investment. *International Transactions in Operational Research*, 27(5), pp. 2689-2690.

LA TORRE, D., MALIK, T. and MARSIGLIO, S. (2020). Optimal control of prevention and treatment in a basic macroeconomic-epidemiological model. *Mathematical Social Sciences*, 108, pp. 100-108.

GARRALDA-GUILLEM, A.I., KUNZE, H., LA TORRE, D. and GALAN, M.R. (2020). Using the Generalized Collage Theorem for Estimating Unknown Parameters in Perturbed Mixed Variational Equations. *Communications in Nonlinear Science and Numerical Simulation*, 91, pp. 105433.

SHAROMI, O., LA TORRE, D. and MALIK, T. (2019). A multiple criteria economic growth model with environmental quality and logistic population behaviour with variable carrying capacity. *INFOR*, 57(3), pp. 379-393.

LA TORRE, D., MENDIVIL, F., MARSIGLIO, S. and PRIVILEGGI, F. (2019). A stochastic economic growth model with health capital and state-dependent probabilities. *Chaos, Solitons, and Fractals*, 129, pp. 81-93.

BUCCI, A., LA TORRE, D., LIUZZI, D. and MARSIGLIO, S. (2019). Financial contagion and economic development: An epidemiological approach. *Journal of Economic Behavior and Organization*, 162, pp. 211-228.

COLAPINTO, C., LA TORRE, D. and AOUNI, B. (2019). Goal programming for financial portfolio management: a state-of-the-art review. *Operational Research: An International Journal*, 19, pp. 717-736.

LA TORRE, D., LIUZZI, D. and MARSIGLIO, S. (2019). Population and geography do matter for sustainable development. *Environment and Development Economics*, 24(2), pp. 201-223.

VIE, A., COLAPINTO, C., LA TORRE, D. and LIUZZI, D. (2019). The long-run sustainability of the European Union countries: Assessing the Europe 2020 strategy through a fuzzy goal programming model. *Management Decision*, 57(2), pp. 523-542.

LA TORRE, D., LIUZZI, D. and MARSIGLIO, S. (2019). The optimal population size under pollution and migration externalities: a spatial control approach. *Mathematical Modelling of Natural Phenomena*, 14(1), pp. 1-15.

LA TORRE, D. and MARSIGLIO, S. (2018). Economic Growth and Abatement Activities in a Stochastic Environment: a Multi-Objective Approach. *Annals of Operations Research*, 267, pp. 321–334.

LA TORRE, D., MARSIGLIO, S., MENDIVIL, F. and PRIVILEGGI, F. (2018). Fractal attractors and singular invariant measures in two-sector growth models with random factor shares. *Communications in Nonlinear Science and Numerical Simulation*, 58, pp. 185-201.

LA TORRE, D., MARSIGLIO, S. and PRIVILEGGI, F. (2018). Fractal attractors in economic growth models with random pollution externalities. *Chaos: An Interdisciplinary Journal of Nonlinear Science*, 28(5).

LA TORRE, D. and MENDIVIL, F. (2018). Portfolio optimization under partial uncertainty and incomplete information: a probability multimeasure-based approach. *Annals of Operations Research*, 267, pp. 267-279.

LA TORRE, D. and MENDIVIL, F. (2018). Stochastic linear optimization under partial uncertainty and incomplete information using the notion of probability multimeasure. *Journal of the Operational Research Society*, 69(10), pp. 1549-1556.

JAYARAMAN, R., COLAPINTO, C., LA TORRE, D. and MALIK, T. (2017). A Weighted Goal Programming model for planning sustainable development applied to Gulf Cooperation Council Countries. *Applied Energy*, 185(Part 2), pp. 1931-1939.

LA TORRE, D. (2017). Preface: Multiple criteria optimization and goal programming in science, engineering, and social sciences. *Annals of Operations Research*, 251, pp. 1-5.

OTERO, D., LA TORRE, D., MICHAILOVICH, O. and VRSCAY, E. (2017). On the theory of function-valued mappings and its application to the processing of hyperspectral images. *Signal Processing*, 134, pp. 185-196.

ANITA, S., CAPASSO, V., KUNZE, H. and LA TORRE, D. (2017). Optimizing Environmental Taxation on Physical Capital for a Spatially Structured Economic Growth Model Including Pollution Diffusion. *Vietnam Journal of Mathematics*, 45, pp. 199-206.

JAYARAMAN, R., COLAPINTO, C., LIUZZI, D. and LA TORRE, D. (2017). Planning sustainable development through a scenario-based stochastic goal programming model. *Operational Research: An International Journal*, 17, pp. 789-805.

LA TORRE, D., LIUZZI, D. and MARSIGLIO, S. (2017). Pollution Control under Uncertainty and Sustainability Concern. *Environmental and Resource Economics*, 67, pp. 885-903.

BERENGUER, M.I., KUNZE, H., LA TORRE, D. and RUIZ GALAN, M. (2016). Galerkin method for constrained variational equations and a collage-based approach to related inverse problems. *Journal of Computational and Applied Mathematics*, 292, pp. 67-75.

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LEVERE, K.M., KUNZE, H. and LA TORRE, D. (2015). A collage-based approach to solving inverse problems for second-order nonlinear hyperbolic PDEs. *Communications in Nonlinear Science and Numerical Simulation*, 29(1-3), pp. 283-299.

ANITA, S., CAPASSO, V., KUNZE, H. and LA TORRE, D. (2015). Dynamics and control of an integro-differential system of geographical economics. *Annals of the Academy of Romanian Scientists: Series on Mathematics and its Applications*, 7(1), pp. 8-26.

ANITA, S., CAPASSO, V., KUNZE, H. and LA TORRE, D. (2015). Dynamics and optimal control in a spatially structured economic growth model with pollution diffusion and environmental taxation. *Applied Mathematics Letters*, 42, pp. 36-40.

JAYARAMAN, R., COLAPINTO, C., LA TORRE, D. and MALIK, T. (2015). Multi-criteria model for sustainable development using goal programming applied to the United Arab Emirates. *Energy Policy*, 87, pp. 447-454.

JAYARAMAN, R., LA TORRE, D., MALIK, T. and PEARSON, Y. (2015). Optimal Work Force Allocation for Energy, Economic and Environmental Sustainability in the United Arab Emirates: A Goal Programming Approach. *Energy Procedia*, 75, pp. 2999-3006.

LA TORRE, D., LIUZZI, D. and MARSIGLIO, S. (2015). Pollution Diffusion and Abatement Activities across Space and over Time. *Mathematical Social Sciences*, 78, pp. 48-63.

LA TORRE, D., MENDIVIL, F., MARSIGLIO, S. and PRIVILEGGI, F. (2015). Self-similar measures in multi-sector endogenous growth models. *Chaos, Solitons, and Fractals*, 79, pp. 40-56.

LA TORRE, D. and MENDIVIL, F. (2015). The Monge–Kantorovich Metric on Multimeasures and Self–Similar Multimeasures. *Set-Valued and Variational Aanalysis*, 23, pp. 319-331.

AOUNI, B., COLAPINTO, C. and LA TORRE, D. (2014). Financial Portfolio Management through Goal Programming: State-of-the-art. *European Journal of Operational Research*, 234(2), pp. 536-545.

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AOUNI, B., COLAPINTO, C. and LA TORRE, D. (2013). A cardinality constrained goal programming model with satisfaction function for venture capital investment decision making. *Annals of Operations Research*, 205, pp. 77-88.

LA TORRE, D. and MENDIVIL, F. (2013). A Chaos game algorithm for generalized iterated function systems. *Applied Mathematics & Computations*, 224, pp. 238-249.

ANITA, S., CAPASSO, V., KUNZE, H. and LA TORRE, D. (2013). Optimal control and long-run dynamics for a spatial economic growth model with physical capital accumulation and pollution diffusion. *Applied Mathematics Letters*, 26(8), pp. 908-912.

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AOUNI, B., BEN ABDELAZIZ, F. and LA TORRE, D. (2012). The Stochastic Goal Programming Model: Theory and Applications. *Journal of Multi-Criteria Decision Analysis*, 19(5-6), pp. 185-200.

LA TORRE, D., POPOVICI, N. and ROCCA, M. (2011). A note on explicitly quasiconvex set-valued maps. *Journal of Nonlinear and Convex Analysis*, 12(1), pp. 113-118.

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CAPASSO, V., ENGBERS, R. and LA TORRE, D. (2010). On a spatial Solow model with technological diffusion and nonconcave production function. *Nonlinear Analysis: Real World Applications*, 11(5), pp. 3858-3876.

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Other research activities

Chief editor

2012 - 2020	International Journal of Applied Nonlinear Science

Senior or associate editor

Since 2024	Annals of Operations Research
Since 2022	Engineering Management Journal

Editorial board member

Since 2024	PLOS ONE
Since 2024	Scientific Reports
Since 2022	Discover Artificial Intelligence
Since 2022	Journal of Modelling in Management
Since 2022	Mathematics
Since 2022	International Transactions in Operational Research
Since 2021	Data Science in Finance and Economics
2013 - 2020	Mathematical Problems in Engineering
2012 - 2020	International Journal of Computing Science and Mathematics
2009 - 2019	International Journal of Mathematics and Statistics
2012 - 2018	Data Envelopment Analysis and Decision Science
2011 - 2014	International Journal of Portfolio Analysis and Management

Reviewer for:

Annals of Operations Research, Chaos, Solitons, and Fractals, Computational Economics, Journal of the Operational Research Society

PhD supervision

2023	S. VOLPE, Universita' degli Studi di Milano "La Statale", PhD thesis, Thesis Reviewer
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2019	K. WANG, Dalhousie University , PhD thesis, Thesis Reviewer
2018	N. BAGHERI, The University of Dubai, PhD thesis, Thesis Reviewer
2015	D. LIUZZI, Universita' degli Studi di Milano "La Statale", PhD thesis, Thesis director

2012	K. LEVERE, University of Guelph, PhD thesis, Thesis co-director
2012	M. DEMERS, PhD thesis, Thesis co-director
2012	E. C. RICCI, PhD thesis, Thesis co-director
2011	S. MARSIGLIO, Universita' degli Studi di Milano "La Statale", PhD thesis, Thesis director
2008	L. ORSI, Universita' degli Studi di Milano "La Statale", PhD thesis, Thesis director