

# Emanuele Borgonovo

## DECISION ANALYSIS

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### ARTICOLI SU RIVISTA SCIENTIFICA

BORGONOVO E., BAUCELLS M., DE ROSA A., PLISCHKE E., BARR J., RABITZ H.

**Direction of impact for explainable risk assessment modeling**

Risk Analysis, 2025

CHIANI L., BORGONOVO E., PLISCHKE E., TAVONI M.

**Global sensitivity analysis of integrated assessment models with multivariate outputs**

Risk Analysis, 2025

BORGONOVO E., FIGALLI A., PLISCHKE E., SAVARÉ G.

**Global Sensitivity Analysis via Optimal Transport**

Management Science, 2024

CHIARINI A., GRANDO A., VENTURINI S., BORGONOVO E.

**Do automation and AI impact on job reduction? A study on perceived risk of losing job among white-collars in the Italian manufacturing companies**

Production Planning & Control, 2024, vol.35, no. 16, pp.2198–2211

BORGONOVO E., PLISCHKE E., RABITTI G.

**The many Shapley values for explainable artificial intelligence: A sensitivity analysis perspective**

European Journal of Operational Research, 2024, vol.318, no. 3, pp.911–926

LIU X., ZIO E., BORGONOVO E., PLISCHKE E.

**A Systematic Approach of Global Sensitivity Analysis and Its Application to a Model for the Quantification of Resilience of Interconnected Critical Infrastructures**

Energies, 2024, vol.17, no. 8, pp.1823

BORGONOVO E., PLISCHKE E., PRIEUR C.

**Total effects with constrained features**

Statistics and Computing, 2024, vol.34, no. 2, pp.87

BORGONOVO E., CLEMENTE G. P., RABITTI G.

**Why insurance regulators need to require sensitivity settings of internal models for their approval**

Finance Research Letters, 2024, vol.60, pp.104859

CAPPELLI F., TAURO F., APOLLONIO C., PETROSELLI A., BORGONOVO E., VOLPI E., GRIMALDI S.

**Feature importance measures for flood forecasting system design**

Hydrological Sciences Journal, 2024, vol.69, no. 4, pp.438–455

BORGONOVO E., GHIDINI V., HAHN R., PLISCHKE E.

**Explaining classifiers with measures of statistical association**

Computational Statistics & Data Analysis, 2023, vol.182, pp.107701

HAZEN G., BORGONOVO E., LU X.

**Information Density in Decision Analysis**

Decision Analysis , 2023, vol.20, no. 2, pp.89–108

CAPPELLI F., TAURO F., APOLLONIO C., PETROSELLI A., BORGONOVO E., GRIMALDI S.

**Feature importance measures to dissect the role of sub-basins in shaping the catchment hydrological response: a proof of concept**

Stochastic Environmental Research and Risk Assessment, 2023, vol.37, no. 4, pp.1247–1264

BORGONOVO E., RABITTI G.

**Screening: From tornado diagrams to effective dimensions**

European Journal of Operational Research, 2023, vol.304, no. 3, pp.1200–1211

LU X., BORGONOVO E.

**Global sensitivity analysis in epidemiological modeling**

European Journal of Operational Research, 2023, vol.304, no. 1, pp.9–24

BORGONOVO E., PLISCHKE E., RABITTI G.

**Interactions and computer experiments**

Scandinavian Journal of Statistics, 2022, vol.49, no. 3, pp.1274–1303

VECCHI V., CUSUMANO N., CASADY C. B., GATTI S., BORGONOVO E.

**Addressing Adverse Selection in Public-Private Partnership (PPP) Procurement: An Agent-Based Approach**

Public Works Management & Policy, 2022, vol.27, no. 4, pp.371–395

BORGONOVO E., PANGALLO M., RIVKIN J., RIZZO L., SIGGELKOW N.

**Sensitivity analysis of agent-based models: a new protocol**

Computational and Mathematical Organization Theory, 2022, vol.28, no. 1, pp.52–94

BORGONOVO E., LI G., BARR J., PLISCHKE E., RABITZ H.

**Global Sensitivity Analysis with Mixtures: A Generalized Functional ANOVA Approach**

Risk Analysis, 2022, vol.42, no. 2, pp.304–333

LO PIANO S., BORGONOVO E., PUY A., SALTELLI A., WALSH J., VIDONI D.

**Improving the reliability of cohesion policy databases**

Plos One, 2022, vol.17, no. 4, pp.e0266823

PUY A., BORGONOVO E., LO PIANO S., LEVIN S. A., SALTELLI A.

**Irrigated areas drive irrigation water withdrawals**

Nature Communications, 2021, vol.12, no. 1

ZHU X., CHEN Z., BORGONOVO E.

**Remaining-useful-lifetime and system-remaining-profit based importance measures for decisions on preventive maintenance**

Reliability Engineering & System Safety, 2021, vol.216, pp.107951

BORGONOVO E., CASELLI S., CILLO A., MASCIANDARO D., RABITTI G.

**Money, privacy, anonymity: What do experiments tell us?**

Journal of Financial Stability, Ottobre, 2021, vol.56, pp.100934, 1–10

BORGONOVO E., HAZEN G. B., JOSE V. R. R., PLISCHKE E.

**Probabilistic sensitivity measures as information value**

European Journal of Operational Research, 2021, vol.289, no. 2, pp.595–610

RAZAVI S., JAKEMAN A., SALTELLI A., PRIEUR C., IOOSS B., BORGONOVO E., PLISCHKE E., LO PIANO S., IWANAGA T., BECKER W., TARANTOLA S., GUILLAUME J. H. A., JAKEMAN J., GUPTA H., MELILLO N., RABITTI G., CHABRIDON V., DUAN Q., SUN X., SMITH S., SHEIKHOLESLAMI R., HOSSEINI N., ASADZADEH M., PUY A., KUCHERENKO S., MAIER H. R.

**The Future of Sensitivity Analysis: An essential discipline for systems modeling and policy support**

Environmental Modelling & Software, 2021, vol.137, pp.104954

PLISCHKE E., RABITTI G., BORGONOVO E.

**Computing Shapley Effects for Sensitivity Analysis**

SIAM/ASA Journal on Uncertainty Quantification, 2021, vol.9, no. 4, pp.1411–1437

BORGONOVO E., MOLTENI L.

**Gli advanced analytics a supporto delle decisioni manageriali**

Economia &amp; Management, 2021, no. 2, pp.25–29

PLISCHKE E., BORGONOVO E.

**Fighting the Curse of Sparsity: Probabilistic Sensitivity Measures From Cumulative Distribution Functions**

Risk Analysis, 2020, vol.40, no. 12, pp.2639–2660

RABITTI G., BORGONOVO E.

**Is mortality or interest rate the most important risk in annuity models? A comparison of sensitivity analysis methods**

Insurance: Mathematics &amp; Economics, 2020, vol.95, pp.48–58

BORGONOVO E., ANTONIANO-VILLALOBOS I., LU X.

**Nonparametric estimation of probabilistic sensitivity measures**

Statistics and Computing, 2020, vol.30, no. 2, pp.447–467

LU X., RUDI A., BORGONOVO E., ROSASCO L.

**Faster Kriging: Facing High-Dimensional Simulators**

Operations Research, 2020, vol.68, no. 1, pp.233–249

PLISCHKE E., BORGONOVO E.

**Copula theory and probabilistic sensitivity analysis: Is there a connection?**

European Journal of Operational Research, 2019, vol.277, no. 3, pp.1046–1059

RABITTI G., BORGONOVO E.

**A Shapley-Owen Index for Interaction Quantification**

SIAM/ASA Journal on Uncertainty Quantification, 2019, vol.7, no. 3, pp.1060–1075

ANTONIANO-VILLALOBOS I., BORGONOVO E., SIRIWARDENA S.

**Which Parameters Are Important? Differential Importance Under Uncertainty**

Risk Analysis, 2018, vol.38, no. 11, pp.2459–2477

BORGONOVO E., CILLO A., SMITH C. L.

**On the Relationship between Safety and Decision Significance**

Risk Analysis, 2018, vol.38, no. 8, pp.1541–1558

BORGONOVO E., BUZZARD G., WENDELL R. E.

**A global tolerance approach to sensitivity analysis in linear programming**

European Journal of Operational Research, 2018, vol.267, no. 1, pp.321–337

BORGONOVO E., MORRIS M. D., PLISCHKE E.

**Functional ANOVA with Multiple Distributions: Implications for the Sensitivity Analysis of Computer Experiments**

SIAM/ASA Journal on Uncertainty Quantification, 2018, vol.6, no. 1, pp.397–427

BORGONOVO E., CAPPELLI V., MACCHERONI F. A., MARINACCI M.

**Risk analysis and decision theory: A bridge**

European Journal of Operational Research, 2018, vol.264, no. 1, pp.280–293

BORGONOVO E., CILLO A.

**Deciding with Thresholds: Importance Measures and Value of Information**

Risk Analysis, 2017, vol.37, no. 10, pp.1828–1848

BORGONOVO E., LU X., PLISCHKE E., RAKOVEC O., HILL M. C.

**Making the most out of a hydrological model data set: Sensitivity analyses to open the model black-box**

Water Resources Research, 2017, vol.53, no. 9, pp.7933–7950

ALIEE H., BORGONOVO E., GLASS M., TEICH J.

**On the Boolean extension of the Birnbaum importance to non-coherent systems**

Reliability Engineering & System Safety, 2017, vol.160, pp.191–200

CILLO A., BORGONOVO E.

**Deciding with Thresholds: Importance Measures and Value of Information**

Risk Analysis, 2017, vol.37, no. 10, pp.1828–1848

BORGONOVO E., LAENGLE S., MERIGÓ J., MIRANDA J., SLOWINSKI R., BOMZE I., DYSON R., OLIVEIRA J., TEUNTER R.

**Forty years of the European Journal of Operational Research: A bibliometric overview**

European Journal of Operational Research, 2017, vol.262, no. 3, pp.803–816

BORGONOVO E., MARANGONI G., TAVONI M., BOSETTI V.

**Sensitivity of projected long-term CO<sub>2</sub> emissions across the Shared Socioeconomic Pathways**

Nature Climate Change, 2017, vol.7, no. 2, pp.113–117

DI MAIO F., NICOLA G., BORGONOVO E., ZIO E.

**Invariant methods for an ensemble-based sensitivity analysis of a passive containment cooling system of an AP1000 nuclear power plant**

Reliability Engineering & System Safety, 2016, vol.151, pp.12–19

BORGONOVO E., HAZEN G., PLISCHKE E.

**A Common Rationale for Global Sensitivity Measures and Their Estimation**

Risk Analysis, 2016, vol.36, no. 10, pp.1871–1895

BORGONOVO E., CUCURACHI S., HEIJUNGS R.

**A Protocol for the Global Sensitivity Analysis of Impact Assessment Models in Life Cycle Assessment**

Risk Analysis, 2016, vol.36, no. 2, pp.357–377

BORGONOVO E., ALIEE H., GLASS M., TEICH J.

**A new time-independent reliability importance measure**

European Journal of Operational Research, 2016, vol.254, no. 2, pp.427–442

BORGONOVO E., PLISCHKE E.

**Sensitivity analysis: A review of recent advances**

European Journal of Operational Research, 2016, vol.248, no. 3, pp.869–887

BECCACECE F., BORGONOVO E., BUZZARD G., CILLO A., ZIONTS S.

**Elicitation of multiattribute value functions through high dimensional model representations: Monotonicity and interactions**

European Journal of Operational Research, 2015, vol.246, no. 2, pp.517–527

BORGONOVO E., MARINACCI M.

**Decision analysis under ambiguity**

European Journal of Operational Research, 2015, vol.244, no. 3, pp.823–836

BECCACECE F., BORGONOVO E., BUZZARD G., CILLO A., ZIONTS S.

**Elicitation of Multiattribute Value Functions through High Dimensional Model Representations: Monotonicity and Interactions**

European Journal of Operational Research, 2015, vol.246, no. 2, pp.517–527

BORGONOVO E., TARANTOLA S., PLISCHKE E., MORRIS M.

**Transformations and invariance in the sensitivity analysis of computer experiments**

The Journal of The Royal Statistical Society, Series B (Statistical Methodology), 2014, vol.76, no. 5, pp.925–947

BORGONOVO E., ANDERSON B., GALEOTTI M., ROSON R.

**Uncertainty in Climate Change Modeling: Can Global Sensitivity Analysis Be of Help?**

Risk Analysis, 2014, vol.34, no. 2, pp.271–293

ZENTNER I., BORGONOVO E.

**Construction of variance-based metamodels for probabilistic seismic analysis and fragility assessment**

Georisk: Assessment and Management of Risk for Engineered Systems and Geohazards, 2014, vol.8, no. 3, pp.202–216

BORGONOVO E., TONOLI F.

**Decision-network polynomials and the sensitivity of decision-support models**

European Journal of Operational Research, 2014, vol.239, no. 2, pp.490–503

BORGONOVO E.

**Quando ai manager danno i numeri**

Economia & Management, 2014, no. 3, pp.108–111

CEPPI A., RAVAZZANI G., SALANDIN A., RABUFFETTI D., MONTANI A., BORGONOVO E., MANCINI M.

**Effects of temperature on flood forecasting: Analysis of an operative case study in Alpine basins**

Natural Hazards and Earth System Sciences, 2013, vol.13, no. 4, pp.1051–1062

PLISCHKE E., BORGONOVO E., SMITH C.

**Global sensitivity measures from given data**

European Journal of Operational Research, 2013, vol.226, no. 3, pp.536–550

BAUCELLS M., BORGONOVO E.

**Invariant Probabilistic Sensitivity Analysis**

Management Science, 2013, vol.59, no. 11, pp.2536–2549

BORGONOVO E., ZENTER I., PELLERI A., TARANTOLA S., DE ROCQUIGNY E.

**On the importance of uncertain factors in seismic fragility assessment**

Reliability Engineering & System Safety, 2013, vol.109, no. -, pp.66–76

BORGONOVO E., GATTI S.

**Risk Analysis with contractual default. Does Covenant Breach Matter?**

European Journal of Operational Research, 2013, vol.230, no. 2, pp.431–443

BORGONOVO E., SMITH C.

**Composite multilinearity, epistemic uncertainty and risk achievement worth**

European Journal of Operational Research, 2012, vol.222, no. 2, pp.301–311

BORGONOVO E., CASTAINGS W., TARANTOLA S.

**Model emulation and moment-independent sensitivity analysis: An application to environmental modeling**

Environmental Modelling & Software, 2012, vol.34, pp.105–115

CASTANINGS W., BORGONOVO E., MORRIS M., TARANTOLA S.

**Sampling strategies in density-based sensitivity analysis**

Environmental Modelling & Software, 2012, vol.38, pp.13–26

BECCACECE F., BORGONOVO E.

**Functional ANOVA, ultramodularity and monotonicity: Applications in multiattribute utility theory**

European Journal of Operational Research, 2011, vol.210, no. 2, pp.326–335

BORGONOVO E., SMITH C.

**A Study of Interactions in the Risk Assessment of Complex Engineering Systems: an Application to Space PSA**

Operations Research, 2011, vol.59, no. 6, pp.1461–1476

BIAVA P., BASEVI M., BIGGIERO L., BORGONOVO A., BORGONOVO E., BURIGANA F.

**Cancer cell reprogramming, 2010: stem cell differentiation stage factors and an agent based model to optimize cancer treatment**

Current Pharmaceutical Biotechnology, 2011, vol.12, no. 2, pp.231–242

BORGONOVO E., PECCATI L.

**Finite Change Comparative Statics for Risk-Coherent Inventories**

International Journal of Production Economics, 2011, vol.131, no. 1, pp.52–62

BECCACECE F., BORGONOVO E.

**Function decomposition, monotonicity and ultramodularity: applications to multi-attribute utility theory**  
European Journal of Operational Research, 2011, vol.210, no. 2, pp.326–335

BORGONOVO E., CAVALLI L., GUALDONI D., IOZZI F., SODA G., GERMANI A., GOLLIN G.  
**La progettazione dei sistemi di incentivazione del personale. Un modello sperimentale**  
Economia & Management, 2011, no. 5, pp.49–66

BORGONOVO E., PECCATI L.  
**Managerial Insights from Service Industry Models: A New Scenario Decomposition Method**  
Annals of Operations Research, 2011, vol.185, no. 1, pp.161–179

BORGONOVO E., CASTAINGS W., TARANTOLA S.  
**Moment Independent Importance Measures: New Results and Analytical Test Cases**  
Risk Analysis, 2011, vol.31, no. 3, pp.404–428

BORGONOVO E., PERCOCO M.  
**Sensitivity Analysis of Portfolio Properties with Budget Constraints**  
International Journal of Mathematics in Operational Research, 2011, vol.3, no. 3, pp.295–321

BORGONOVO E.  
**The reliability importance of components and prime implicants in coherent and non-coherent systems including total-order interactions**  
European Journal of Operational Research, 2010, vol.204, no. 3, pp.485–495

BORGONOVO E., GATTI S., PECCATI L.  
**What drives value creation in investment projects? An application of sensitivity analysis to project finance transactions**  
European Journal of Operational Research, 2010, vol.205, no. 1, pp.227–236

BORGONOVO E., PECCATI L.  
**Moment calculations for piecewise-defined functions: an application to stochastic optimization with coherent risk measures**  
Annals of Operations Research, 2010, vol.176, no. 1, pp.235–258

BORGONOVO E.  
**A Methodology for Determining Interactions in Probabilistic Safety Assessment Models by Varying One Parameter at a Time**  
Risk Analysis, 2010, vol.30, no. 3, pp.385–399

BORGONOVO E.  
**Sensitivity analysis with finite changes: An application to modified EOQ models**  
European Journal of Operational Research, 2010, vol.200, no. 1, pp.127–138

BECCACECE F., BORGONOVO E.  
**Brand valuation: a comparison of alternative models**  
International Journal of Operational Research, 2009, vol.6, no. 2, pp.247–266

BORGONOVO E.  
**Sensitivity analysis of multinomial decision trees**  
International Journal of Mathematics in Operational Research, 2009, vol.1, no. 1/2, pp.121

---

## MONOGRAFIE O TRATTATI SCIENTIFICI

BORGONOVO E.  
**Sensitivity analysis: an introduction for the management scientist**  
Springer International Publishing, , 2017

---

## CURATELE DI OPERE COLLETTANEE

MOLTENI L., BORGONOVO E. (A CURA DI)

**Quando ai manager danno i numeri . Come prendere decisioni nell'era dei big data**

Egea, Milano, Italia, 2020

---

## LIBRI DI TESTO

BORGONOVO E., FEIN D., POLI E., VENTURINI S.

**Principles of Business Analytics**

Bocconi University Press – BUP, Milano, Italia, 2024

---

## CONTRIBUTI IN VOLUME, CAPITOLI O SAGGI SCIENTIFICI

BORGONOVO E.

**Sensitivity Analysis** in *Tutorials in Operations Research: Advancing the Frontiers of OR/MS: From Methodologies to Applications*

Ebru Bish, Hari Balasubramanian, Douglas Shier, Harvey J. Greenberg (a cura di), INFORMS, pp.52–81, 2023

BORGONOVO E.

**Mind the assumptions: Quantify uncertainty and assess sensitivity** in *The Politics of Modelling: Numbers Between Science and Policy*

Andrea Saltelli, Monica Di Fiore (a cura di), Oxford University Press, pp.69–82, 2023

BORGONOVO E., IOOSS B.

**Moment-Independent and Reliability-Based Importance Measures** in *Handbook of Uncertainty Quantification*  
Roger Ghanem, David Higdon, Houman Owhadi (a cura di), Springer International Publishing, pp.1–23, 2016

BORGONOVO E., PECCATI L.

**Sensitivity Analysis in Decision Making: A Consistent Approach** in *Advances in Decision Making Under Risk and Uncertainty*

Mohammed Abdellaoui, John D. Hey (a cura di), Springer Berlin Heidelberg, pp.65–89, 2008

BORGONOVO E., PECCATI L.

**On the Quantification and Decomposition of Uncertainty** in *Uncertainty and Risk*

Mohammed Abdellaoui, R. Duncan Luce, Mark J. Machina, Bertrand Munier (a cura di), Springer Berlin Heidelberg, pp.41–59, 2007

BORGONOVO E., PERCOCO M.

**Sensitivity Analysis of Portfolio Volatility: Importance of Weights, Sectors and Impact of Trading Strategies** in *Advances in Risk Management*

Greg N. Gregoriou (a cura di), Palgrave Macmillan UK, pp.47–68, 2007

---

## ALTRO

BORGONOVO E., GRANDO A.

**The arrival of AI in the company is less of a scare for white collars**

## ARTICOLI SU QUOTIDIANI NAZIONALI/INTERNAZIONALI

BORGONOVO E., CASELLI S., CILLO A., MASCIANDARO D., RABITTI G.

**Central bank digital currencies, cryptocurrencies, and privacy: What experiments tell us**

VoxEU – CEPR, 28 Ottobre, 2021

BORGONOVO E., CASELLI S., CILLO A., MASCIANDARO D., RABITTI G.

**Money, digital cash and cryptocurrencies: Privacy matters**

VoxEU – CEPR, 12 Marzo, 2019

---

## EDITORIALI IN RIVISTA

BORGONOVO E., LU X., RABITTI G.

**Sensitivity Analysis of Pandemic Models Can Support Effective Policy Decisions**

2023, Journal of Computational and Graphical Statistics

BORGONOVO E., BUSACCA B., SODA G.

**L'onda dei Big Data: minaccia o opportunità**

2015, Economia & Management, Milano, Italia

BORGONOVO E., TARANTOLA S.

**Advances in Sensitivity Analysis**

2012, Reliability Engineering & System Safety, Paesi Bassi

---

## INTERVIEW ARTICLES

BORGONOVO E., BUSACCA B.

**Big Data: il presente e il futuro secondo Cisco, Facebook, IBM, HP e Oracle**

2015, Economia & Management, Milano, Italia

---

## NOTE DI RICERCA O BREVI ARTICOLI SU RIVISTA

PERCOCO M., BORGONOVO E.

**On the Sensitivity Analysis of Internal Rates of Return**

2012, International Journal of Production Economics, Stati Uniti d'America

---

## PROCEEDINGS/PRESENTATIONS

BORGONOVO E., BAUCELLS M., BARR J., PLISCHKE E., RABITZ H.

**On the Properties of Graphical Tools**

*Advances in Decision Analysis Conference (ADA 2022), June 22-24 2022, Washington D.C., Stati Uniti d'America*

CILLO A., ULU C., BORGONOVO E., ORTIS A., BATTIATO S.

**Should Advisors Signal Access to Algorithms?**

*Advances in Decision Analysis Conference (ADA 2022), June 22-24 2022, Washington D.C., Stati Uniti d'America*

CILLO A., ULU C., BORGONOVO E., ORTIS A., BATTIATO S.

**Should Advisors Signal Access to Algorithms?**

*FUR Conference, July 11-14, 2022, Ghent, Belgio*

BORGONOVO E., SMITH C.

**Importance measures with finite changes: the relationship between Fussell-Vesely and total order reliability importance**

*20th European Safety and Reliability Conference, ESREL 2011, Advances in Safety, Reliability and Risk Management - September 18-22, 2012, Troyes, Francia*

BORGONOVO E., SMITH C.

**Uncertainty in importance measures: Developing the epistemic Risk Achievement Worth**

*20th European Safety and Reliability Conference, ESREL 2011, Advances in Safety, Reliability and Risk Management - September 18-22, 2012, Troyes, Francia*

BORGONOVO E., ANDERSON B., ROSON R., GALEOTTI M.

**Global Sensitivity Analysis and the Economics of Climate Change**

*6th International Congress on Environmental Modelling and Software (iEMSs) - July 1-5 2012, Leipzig, Germania*

BORGONOVO E., PECCATI L.

**Value of Information in the Appraisal of Industrial Investments**

*17th International Working Seminar on Production Economics - February 20-24 2012, Innsbruck, Austria*

BORGONOVO E., BAUCELLS M.

**Probabilistic Sensitivity of Uncertain Cash Flow Streams**

*INFORMS Annual Meeting Proceedings - November 13-16, 2011, Charlotte, North Carolina, Stati Uniti d'America*

ZENTNER I., BORGONOVO E., TARANTOLA S.

**Use of HDMR metamodel for seismic fragility analysis**

*Applications of Statistics and Probability in Civil Engineering. Proceedings of the 11th International Conference on Applications of Statistics and Probability in Civil Engineering (ICASP11) - August 1-4, 2011, Zürich, Svizzera*

---

## RAPPORTI DI RICERCA

BORGONOVO E., POLETTI C.

**Aspetti Economici**

2011, Fondazione Energy Lab – Laboratorio dell'Energia, Italia

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## VOCI (IN DIZIONARIO O ENCICLOPEDIA)

BORGONOVO E.

**Sensitivity Analysis in Decision Making** in *Wiley Encyclopedia of Operations Research and Management Science*

J. J. Cochran, L. A. Cox, Jr. Pinar Keskinocak, J. P. Kharoufeh, J. C. Smith (a cura di), John Wiley & Sons, pp.1076-1076, 2013

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## WORKING PAPERS

CASELLI S., BORGONOVO E., CILLO A., MASCIANDARO D.

**Beyond Bitcoin and Cash: Do We Would Like a Central Bank Digital Currency? A Financial and Political Economics Approach**

2017, SSRN Electronic Journal

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