

## Publications

### Articles published in peer-reviewed international journals

1. Russo Vincenzo, Giacometti Rosella, Fabozzi Frank J. (2017). Intensity-based framework for surrender modeling in life insurance. *INSURANCE MATHEMATICS & ECONOMICS*, vol. 72, p. 189-196, ISSN: 0167-6687, doi: 10.1016/j.insmatheco.2016.11.001
2. Fabozzi Frank J., Giacometti Rosella, Tsuchida Naoshi (2016). Factor decomposition of the Eurozone sovereign CDS spreads. *JOURNAL OF INTERNATIONAL MONEY AND FINANCE*, vol. 65, p. 1-23, ISSN: 0261-5606, doi: 10.1016/j.jimonfin.2016.03.003
3. Vincenzo Russo, Rosella Giacometti, Svetlozar T. Rachev, Frank J. Fabozzi (2015). A Three-Factor model for mortality modeling. *NORTH AMERICAN ACTUARIAL JOURNAL*, vol. 19, p. 129-141, ISSN: 1092-0277, doi: 10.1080/10920277.2015.1015262
4. Pianeti Riccardo, Giacometti Rosella (2015). Estimating the probability of multiple EU sovereign defaults using CDS and bond data. *QUANTITATIVE FINANCE*, vol. 15, p. 61-78, ISSN: 1469-7688, doi: 10.1080/14697688.2014.932919
5. Giacometti Rosella, Ortobelli Lozza Sergio, Tichý Tomáš (2015). Portfolio selection with uncertainty measures consistent with additive shifts. *PRAGUE ECONOMIC PAPERS*, vol. 24, p. 3-16, ISSN: 1210-0455, doi: 10.18267/j.pep.497
6. ZHOU XIAOPING, GIACOMETTI ROSELLA, FABOZZI FRANK J., TUCKER ANN H. (2014). Bayesian estimation of truncated data with applications to operational risk measurement. *QUANTITATIVE FINANCE*, vol. 14, p. 863-888, ISSN: 1469-7688, doi: 10.1080/14697688.2012.752103
7. TSUCHIDA NAOSHI, GIACOMETTI ROSELLA, FABOZZI FRANK J., SHIN KIM YOUNG, FREY ROBERT J. (2014). Time series and copula dependency analysis for Eurozone sovereign bond returns. *THE JOURNAL OF FIXED INCOME*, vol. 24, p. 75-87, ISSN: 1059-8596, doi: 10.3905/jfi.2014.24.1.075
8. Giacometti Rosella, Vespucci Maria Teresa, Bertocchi Maria, Barone-Adesi Giovanni (2013). Deterministic and stochastic models for hedging electricity portfolio of a hydropower producer. *STATISTICA & APPLICAZIONI*, p. 57-77, ISSN: 1824-6672
9. BERTOCCHI MARIA, GIACOMETTI ROSELLA, RECCHIONI MARIA CRISTINA, ZIRILLI FRANCESCO (2013). Pricing life insurance contracts as financial options: the endowment policy case. *FAR EAST JOURNAL OF MATHEMATICAL SCIENCES: FJMS*, p. 69-121, ISSN: 0972-0871
10. GURNÝ MARTIN, ORTOBELLI LOZZA SERGIO, GIACOMETTI ROSELLA (2013). Structural credit risk models with subordinated processes. *JOURNAL OF APPLIED MATHEMATICS*, p. 217-226, ISSN: 1110-757X, doi: 10.1155/2013/138272
11. GIACOMETTI ROSELLA, BERTOCCHI MARIA, RACHEV SVETLOZAR T., FABOZZI FRANK J. (2012). A comparison of the Lee-Carter model and AR-ARCH model for forecasting mortality rates. *INSURANCE MATHEMATICS & ECONOMICS*, vol. 50, p. 85-93, ISSN: 0167-6687, doi: 10.1016/j.insmatheco.2011.10.002
12. CASTELLANO ROSELLA, GIACOMETTI ROSELLA (2012). Credit default swaps: implied ratings versus official ones. *4OR*, vol. 10, p. 163-180, ISSN: 1619-4500, doi: 10.1007/s10288-011-0195-3
13. PIANETI, Riccardo, GIACOMETTI, Rosella, ACERBIS, Valentina (2012). Estimating the joint probability of default using Credit Default Swap and Bond Data. *THE JOURNAL OF FIXED INCOME*, vol. 21, p. 44-58, ISSN: 1059-8596, doi: 10.3905/jfi.2012.21.3.044
14. KIM YOUNG SHIN, GIACOMETTI ROSELLA, RACHEV SVETLOZAR T., FABOZZI FRANK J., MIGNACCA DOMENICO (2012). Measuring financial risk and portfolio optimization with a non-Gaussian multivariate model. *ANNALS OF OPERATIONS RESEARCH*, vol. 201, p. 325-343, ISSN: 0254-5330, doi: 10.1007/s10479-012-1229-8
15. GIACOMETTI ROSELLA, ORTOBELLI LOZZA SERGIO, BERTOCCHI MARIA (2011). A stochastic model for mortality rate on Italian data. *JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS*, vol. 149, p. 216-228, ISSN: 0022-3239, doi: 10.1007/s10957-010-9771-5
16. Russo Vincenzo, Giacometti Rosella, Ortobelli Lozza Sergio, Rachev Svetlozar T., Fabozzi Frank J. (2011). Calibrating affine stochastic mortality models using term assurance premiums. *INSURANCE MATHEMATICS & ECONOMICS*, vol. 49, p. 53-60, ISSN: 0167-6687, doi: 10.1016/j.insmatheco.2011.01.015

17. MAGGIONI, Francesca, BERTOCCHI, Maria, GIACOMETTI, Rosella, VESPUCCI, Maria Teresa, INNORTA, Mario, ALLEVI, Elisabetta (2010). A stochastic optimization model for gas retail with temperature scenarios and oil prices parameters. *IMA JOURNAL OF MANAGEMENT MATHEMATICS*, vol. 21, p. 149-163, ISSN: 1471-678X, doi: 10.1093/imaman/dpp011
18. Giacometti Rosella, Mignacca Domenico (2010). Using Black and Litterman framework for stress testing analysis in asset management. *JOURNAL OF ASSET MANAGEMENT*, vol. 11, p. 286-297, ISSN: 1470-8272, doi: 10.1057/jam.2009.33
19. Giacometti Rosella, Bertocchi Maria, Ortobelli Lozza Sergio (2009). Impact of different distributional assumptions in forecasting Italian mortality rates. *INVESTMENT MANAGEMENT & FINANCIAL INNOVATIONS*, vol. 6, p. 65-72, ISSN: 1810-4967
20. Giacometti Rosella, Rachev Svetlozar Todorov, Chernobai Anna, Bertocchi Maria (2008). Aggregation issues in operational risk. *THE JOURNAL OF OPERATIONAL RISK*, vol. 3, p. 3-23, ISSN: 1744-6740
21. Giacometti Rosella, Rachev T. Svetlozar (2008). Funds of Hedge Funds: a Comparison among Different Portfolio Optimization Models implementing the Zero-Investment Strategy. *INVESTMENT MANAGEMENT & FINANCIAL INNOVATIONS*, vol. 5, p. 19-29, ISSN: 1810-4967
22. Giacometti Rosella, Rachev Svetlozar Todorov, Chernobai Anna, Bertocchi Maria, Consigli Giorgio (2007). Heavy-tailed distributional model for operational losses. *THE JOURNAL OF OPERATIONAL RISK*, vol. 2, p. 55-90, ISSN: 1744-6740
23. Giacometti Rosella, Bertocchi Maria, Rachev Svetlozar Todorov, Fabozzi Frank (2007). Stable distributions in the Black-Litterman approach to asset allocation. *QUANTITATIVE FINANCE*, vol. 7, p. 423-433, ISSN: 1469-7688, doi: 10.1080/14697680701442731
24. Giacometti Rosella, Teocchi Mariangela (2005). On pricing of Credit spread options. *EUROPEAN JOURNAL OF OPERATIONAL RESEARCH*, vol. 163, p. 52-64, ISSN: 0377-2217, doi: 10.1016/j.ejor.2003.12.005
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26. Bertocchi Maria, Giacometti Rosella, Ortobelli Lozza Sergio, Rachev Svetlozar Todorov (2005). The Impact of Different Distributional Hypothesis on Returns in Asset Allocation. *FINANCE LETTERS*, vol. 3, p. 17-27, ISSN: 1740-6242
27. Abaffy, Jozsef, BERTOCCHI, Maria, Dupacova, Jitka, GIACOMETTI, Rosella, Huskova, Marie, Moriggia, Vittorio (2003). A nonparametric model for analysis of the EURO bond market. *JOURNAL OF ECONOMIC DYNAMICS & CONTROL*, vol. 27, p. 1113-1131, ISSN: 0165-1889, doi: 10.1016/S0165-1889(02)00057-X
28. Giacometti Rosella, Castellano Rosella (2001). Performance of a Hedged portfolio Model in presence of Extreme events. *COMPUTATIONAL ECONOMICS*, vol. 17, p. 239-252, ISSN: 0927-7099, doi: 10.1023/A:1011632311173
29. Bertocchi Maria, Giacometti Rosella, Slominski Leon (2000). Bond portfolio management with repo contracts: the Italian case. *ANNALS OF OPERATIONS RESEARCH*, vol. 97, p. 111-129, ISSN: 0254-5330
30. Giacometti Rosella, Bertocchi Marida (1993). Global Continuous Optimization: a Parallel Genetic Approach. *NEURAL NETWORK WORLD*, vol. 6, p. 665-680, ISSN: 1210-0552
31. Rosella Giacometti (1993). On Optimal Design of Treasury Bonds. *COMPUTATIONAL ECONOMICS*, vol. 13, p. 25-39, ISSN: 0927-7099

#### **Chapters in Books**

1. Bertocchi Maria, Giacometti Rosella, Vespucci Maria Teresa (2015). Risk measures and management in the energy sector. In: (a cura di): Zopounidis Constantin;Galariotis Emilios, *Quantitative Financial Risk Management: Theory and Practice*. p. 126-151, Chichester:John Wiley & Sons, Inc., ISBN: 978-1-118-73818-4, doi: 10.1002/9781119080305.ch6
2. GIACOMETTI ROSELLA (2013). Credit derivatives markets. In: Bertocchi Marida;Consigli Giorgio;D'Ecclesia Rita;Giacometti Rosella;Moriggia Vittorio;Ortobelli Lozza Sergio. *Euro bonds: Markets, Infrastructure and Trends*. *WORLD SCIENTIFIC SERIES IN FINANCE*, vol. 7, p. 223-248, Singapore:World Scientific Publishing, ISBN: 978-981-4440-15-8, ISSN: 2010-1082, doi: 10.1142/9789814440165\_0008

3. GIACOMETTI ROSELLA (2013). Securitization market. In: Bertocchi Marida;Consigli Giorgio;D'Ecclesia Rita;Giacometti Rosella;Moriggia Vittorio;Ortobelli Lozza Sergio. Euro bonds: Markets, Infrastructure and Trends. WORLD SCIENTIFIC SERIES IN FINANCE, vol. 7, p. 149-169, SINGAPORE:World Scientific, ISBN: 978-981-4440-15-8, ISSN: 2010-1082, doi: 10.1142/9789814440165\_0006
4. GIACOMETTI, Rosella, BERTOCCHI, Maria, VESPUCCI, Maria Teresa, BARONE ADESI, GIOVANNI (2011). Hedging electricity portfolio for an hydro-energy producer via stochastic programming. In: (a cura di): Bertocchi Marida;Consigli Giorgio;Dempster Michael A. H., Stochastic Optimization Methods In Finance And Energy: new financial products and strategies in liberalised energy markets. INTERNATIONAL SERIES IN OPERATIONS RESEARCH & MANAGEMENT SCIENCE, vol. 163, p. 163-180, NEW YORK:Springer, ISBN: 978-1-4419-9585-8, ISSN: 0884-8289, doi: 10.1007/978-1-4419-9586-5\_8
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6. ORTOBELLI LOZZA SERGIO, GIACOMETTI ROSELLA (2004). Risk measures for asset allocation models. In: (a cura di): SZEGO G., Risk Measures in the 21st century. p. 69-86, Wiley & Sons, ISBN: 978-0-470-86154-7
7. GIACOMETTI R, M. TEOCCHI (2003). La composizione di un portafoglio di attività finanziarie efficiente: richiami teorici e implicazioni operative. In: BANCARIA EDITRICE. Gestione del risparmio e della clientela nel private banking. p. 105-147, MILANO:Edibank-Bancaria Editrice
8. GIACOMETTI R (2000). Improving Portfolio Performances Using Option Strategies. In: MARIA BONILLA, TRINIDAD CASASUS, RAMON SALA EDITORS. Financial Modelling (Contributions to Management Science). p. 125-141, berlin:Physica-Verlag HD; 1 edition (June 10, 2002)
9. GIACOMETTI R, C. NUZZO (1994). Embedded option pricing on interest rate sensitive securities in the Italian market. In: R.L. D'ECCLESIA E S. ZENIOS EDS., Operations Research Models in Quantitative Finance. p. 210-234, Heidelberg:Physica-Verlag, ISBN: 3790808032

#### **Conference Proceeding**

1. Torri, Gabriele, Giacometti, Rosella, Rachev, Svetlozar (2017). Option Pricing in Non-Gaussian Ornstein-Uhlenbeck Markets. In: Financial Management of Firms and Financial Institutions. p. 1-10, ISBN: 978-80-248-4138-0, Ostrava, Czech Republic, 6th - 7th September 2017
2. GURNÝ MARTIN, ORTOBELLI LOZZA SERGIO, GIACOMETTI ROSELLA (2013). A comparison of estimated default probabilities: Merton model vs. stable Paretian model. In: Proceedings of the 9th International Scientific Conference Financial Management of Firms and Financial Institutions. p. 217-226, ISBN: 978-80-248-3172-5, Ostrava, Czech Republic, 9-10/9/2013
3. Giacometti Rosella, Vespucci Maria Teresa, Bertocchi Maria (2010). A multi-stage stochastic electricity portfolio model with forward contracts. In: 2010 International Conference on Management and Service Science (MASS 2010). p. 1-4, IEEE (Institute of Electrical and Electronics Engineers), ISBN: 978-142445326-9, Wuhan, Cina, 24-26 August 2010, doi: 10.1109/ICMSS.2010.5577154
4. Bertocchi M, Giacometti R (1992). The parallel genetic algorithm as global optimizer. In: The proceeding of working Day held in Verona. p. 29-42, Verona:Universita' di Verona
5. Torri, Gabriele, Paterlini, Sandra, Giacometti, Rosella (2017). Sparse Precision matrices for minimum variance portfolios. In: 10th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2017). p. 160, ECOSTA ECONOMETRICS AND STATISTICS, ISBN: 978-9963-2227-4-2, London, UK, 16-18 December 2017
6. Torri, Gabriele, Giacometti, Rosella, Paterlini, Sandra (2016). Capturing systemic risk by robust and sparse network estimation. In: 10th International Conference on Computational and Financial Econometrics (CFE 2016). Book of Abstracts. p. 84, ISBN: 978-9963-2227-1-1, Seville, Spain, 9 – 11 December 2016

#### **Books**

1. GIACOMETTI, Rosella, EPIS, CRISTIAN (2013). Esercizi di matematica finanziaria.

TORINO:Giappichelli, ISBN: 978-88-348-8876-6

2. BERTOCCHI, Maria, CONSIGLI, Giorgio, D'ECCLESIA, Rita Laura, GIACOMETTI, Rosella, MORIGGIA, Vittorio, ORTOBELLI LOZZA, Sergio (2013). Euro bonds : markets, infrastructure and trends. WORLD SCIENTIFIC SERIES IN FINANCE, vol. 7, SINGAPORE:World Scientific, ISBN: 978-981-4440-15-8, ISSN: 2010-1082
3. GIACOMETTI, Rosella, EPIS, CRISTIAN (2010). Appunti di matematica finanziaria. TORINO:Giappichelli, ISBN: 978-88-348-1414-7

#### **Research Paper and conference abstract**

1. Farina, Gianluca; Giacometti, Rosella (2016) , Portfolio loss modeling: an infectious framework” Working papers MEQ. Quantitative Methods Series No. 1, - University of Bergamo, 2016;
2. Giacometti , Pianeti(2011) “Extracting joint probability of default from CDS data.” Research report No. 3, DMSIA - University of Bergamo, 2011;
3. Giacometti , Bertocchi, Rachev, Fabozzi(2010) A comparison of Lee-Carter and an AR-Arch model for forecasting mortality rate technical report University of Karlsruhe;
4. R.Giacometti, Vespucci; Bertocchi, Barone Adesi (2010) A stochastic model for hedging electricity portfolio for an hydor-energy producer ” DMSIA Working paper N. 2 , Università di Bergamo, 2010;
5. Vincenzo Russo, Rosella Giacometti, Sergio Ortobelli, Svetlozar Rachev, Frank J. Fabozzi(2010) Calibrating affine stochastic mortality models using insurance contracts premiums". Technical report University of Karlsruhe;
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7. Rosella Giacometti, Svetlozar T. Rachev, Vito Sessa, Luca Musicco(2008) ”Funds of Hedge Funds: a Comparison among Different Portfolio Optimization Models implementing the Zero-Investment Strategy “(2008) Technical Reports University of Karlsruhe;
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11. R. Giacometti, M. Bertocchi, S.T. Rachev and F.J. Fabozzi (2005), "Stable distributions in the Black-Litterman approach to the asset allocation", 2005 Technical Reports University of Karlsruhe;
12. Elitropi, Giacometti R (2004). Applicazione degli Algoritmi Genetici per la determinazione di Strategie Ottimali di Trading. In: DMSIA Research Paper, Università di Bergamo . vol. 12
13. Giacometti R, Teocchi M (2004). Pricing Basket Credit Derivatives in a multifactor framework. In: DMSIA Research Paper, Università di Bergamo. vol. 11
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15. R Giacometti R. Castellano(2003) “A Bond Portfolio Model with Credit derivatives “DMSIA Working paper N 2, Università di Bergamo, 2004;
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