

## Curriculum vitae di Salvatore Greco

**Salvatore Greco** è nato nel 1965. Ha conseguito la laurea in Economia e Commercio presso la Facoltà di Economia di Catania nel 1988. E' stato ricercatore alla Facoltà di Economia di Catania dal 1994, professore associate dal 1998 e professore ordinario dal 2001. Al momento insegna Matematica Generale nel corso di laurea triennale di Economia e Matematica Finanziaria e Attuariale nel corso di laurea triennale in Economia Aziendale presso il Dipartimento di Economia e Impresa dell'Università di Catania. Le maggiori aree di interesse nella sua ricerca sono l'analisi multicriteriale delle decisioni, la modellizzazione delle preferenze, l'assiomatizzazione dei metodi di supporto alla decisione, i rough sets e in particolare i rough sets basati sulla dominanza che ha proposto insieme a Benedetto Matarazzo e a Roman Slowinski, i metodi di evolutionary multiobjective optimization, gli integrali non additivi, le decisioni in condizione di incertezza. Salvatore Greco ha presentato diversi contributi invitati in molte prestigiose internazionali e ha pubblicato numerosissimi articoli in prestigiose riviste scientifiche. Salvatore Greco è stato professore invitato al Politecnico di Poznan, all'Università Dauhine di Parigi e all'Ecole Central di Parigi. Salvatore Greco è membro dell'A.M.A.S.E.S. (Italian Association for Mathematics Applied to Economic and Social Sciences) e della società mondiale di analisi multicriteriale, per la quale è attualmente componente del comitato esecutivo (carica già mantenuta nel triennio 2006-2009). Egli è inoltre uno dei tre coordinatori del Gruppo Europeo di Aiuto Multicriteriale alle Decisioni, il più antico gruppo di lavoro della Società Europea di Ricerca Operativa. Per la sua ricerca sull'approccio dei rough sets all'analisi multicriteriale ha ricevuto insieme Benedetto Matarazzo e Roman Slowinski, il Premio per il miglior articolo al Decision Sciences Institute (Atene, 1999). A Salvatore Greco è stata assegnata la Gold Medal 2013 della Società Internazionale di Decisioni Multicriteriali (International Society on Multiple Criteria Decision Making) ([www.mcdmsociety.org/](http://www.mcdmsociety.org/)). Si tratta della massima onorificenza assegnata a uno studioso che nel corso di un'intera carriera ha dedicato il suo talento, tempo ed energia al progresso del campo dell'analisi multicriteriale delle decisioni e che ha dato contributi fondamentali alla teoria, alla metodologia e alla pratica di questo settore (<http://www.mcdmsociety.org/intro.html>).

Insieme a Benedetto Matarazzo, Salvatore Greco ha organizzato la quinta International Summer School on Multicriteria Decision Analysis (Acireale, 2000). Egli ha inoltre organizzato l'“International Doctoral School Algorithmic Decision Theory: MCDA, Data Mining and Rough Sets”, tenutasi a Troina dall'11 al 16 aprile 2008. Salvatore Greco ha organizzato insieme a Kalyanmoy Deb, Kaisa Miettinen e Eckart Zitzler il Dagstuhl Seminar su “Hybrid and Robust Approaches to Multiobjective Optimization” che si è tenuto dal 18.01.09 al 23.01.09 (<http://drops.dagstuhl.de/portals/index.php?semnr=09041>), e insieme a Kaisa Miettinen, Eckart Zitzler e Josh Knowles il Dagstuhl Seminar su “Learning in Multiobjective Optimization” che si è tenuto 22.0.09 al 28.01.09 2012 (<http://www.dagstuhl.de/12041>). Questi seminari hanno raccolto i maggiori esperti mondiali in Evolutionary Multiobjective Optimization e in MCDA.

Salvatore Greco è stato anche il presidente dell'MCDM track del 6<sup>th</sup> Evolutionary Multicriterion Optimization conference EMO 2011 tenuta ad Ouro Preto, Brasile, dal 5 all'8 aprile 2011, <http://www.mat.ufmg.br/emo2011/>, and della 7<sup>th</sup> Evolutionary Multicriterion Optimization conference EMO 2013, tenuta a Sheffield dal 19 al 22 marzo 2013, <https://www.shef.ac.uk/emo2013>. Salvatore Greco è stato il presidente della 14<sup>th</sup> International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, IPMU 2012, che si è tenuta a Catania dal 9 al 13 luglio 2012 con una partecipazione di circa 300 studiosi esperti di metodi matematici per il trattamento dell'incertezza provenienti da tutto il mondo ([www.ipmu2012.unict.it](http://www.ipmu2012.unict.it)).

Salvatore Greco è Area editor del Journal of Multiple Criteria Decision Analysis. Insieme a Josè Figueira e Matthias Ehrgott, ha curato per i tipi della Springer quella che al momento è la più aggiornata e completa raccolta di stati dell'arte sull'analisi multicriteriale. Questo libro è presto diventato un punto di riferimento per gli studiosi del settore, tanto che per gli stessi tipi della Springer, curato sempre da Salvatore Greco, Josè Figueira e Matthias Ehrgott, è stato pubblicato nel 2009 un volume che completa il precedente con la raccolta degli stati dell'arte sulle più recenti metodologie nell'analisi multicriteriale. A testimonianza del successo dell'iniziativa tra gli studiosi di analisi multicriteriale, la Springer ha chiesto a Salvatore Greco, Josè Figueira e Matthias Ehrgott di curare una nuova edizione aggiornata e ampliata del libro del 2005.

Salvatore Greco è anche autore dell'articolo

Greco, S., Matarazzo, B., Slowinski, R., Rough Sets Theory for Multicriteria Decision Analysis, *European Journal of Operational Research*, 129, no.1 (2001) 1-47,

che è stato incluso in un numero speciale del prestigioso *European Journal of Operational Research*, che per commemorare i suoi trent'anni di attività, ha ripubblicato, i 30 articoli più influenti (cioè più citati) pubblicati nella sua trentennale attività.

Alcuni articoli di Salvatore Greco hanno raggiunto un notevolissimo numero di citazioni. Thomson-Reuters Web of Knowledge riporta 124 sue pubblicazioni, per un totale di 2040 citazioni, con una media di 16.45 citations per articolo. Inoltre, prendendo in considerazione i database SCOPUS and Google Scholar, si può rilevare:

- un articolo con 510 citazioni per SCOPUS e 853 per Google Scholar (Greco, Matarazzo, Slowinski 2001, "Rough sets theory for multicriteria decision analysis", *EJOR*, 129 (2001)); questo articolo è al momento il 10° articolo più citato di sempre della rivista *European Journal of Operational Research*;
- un articolo con 176 citazioni per SCOPUS e 253 per Google Scholar (Greco, Matarazzo, Slowinski 2002, "Rough Sets Methodology for Sorting Problems in Presence of Multiple Attributes and Criteria", *European Journal of Operational Research*, vol 138, 2002, pp 247-259),
- un articolo con 174 citazioni per SCOPUS e 351 per Google Scholar (Greco, Matarazzo, Slowinski, "Rough approximation of a preference relation by dominance relation", *European Journal of Operational Research*, vol. 117 1999, pp. 63-83),
- un articolo con 127 citazioni per SCOPUS e 239 per Google Scholar (Greco, Matarazzo, Slowinski 2002, "Rough approximation by dominance relations", *International Journal of Intelligent Systems*, 17, no. 2, (2002) 153-171).

Sulla base di questi risultati Salvatore Greco ha h-index 23 per SCOPUS e 34 per Google Scholar.

Salvatore Greco è risultato sia per l'anno 2009 che per l'anno 2010 il Top Scientist dell'area 13 (Scienze Economiche e Statistiche) dell'Università di Catania ([http://www.unict.it/Public/Uploads/links/presentaz\\_saperi2010.pdf](http://www.unict.it/Public/Uploads/links/presentaz_saperi2010.pdf)).

Salvatore Greco è nell'editorial board delle seguenti riviste internazionali:

- Fuzzy Sets and Systems

<http://www.journals.elsevier.com/fuzzy-sets-and-systems/editorial-board/>

- Journal of Multicriteria Decision Analysis (area editor)

<http://www3.interscience.wiley.com/journal/5725/home?CRETRY=1&SRETRY=0>

-International Journal of Multicriteria Decision Making (IJMCDM)  
<http://www.inderscience.com/browse/index.php?journalCODE=ijmcdm>

- Transactions on Rough Sets  
<http://www.springer.com/computer/lncs?SGWID=0-164-2-99627-0>

-Journal of Computational Optimization in Economics and Finance  
[https://www.novapublishers.com/catalog/product\\_info.php?products\\_id=6353](https://www.novapublishers.com/catalog/product_info.php?products_id=6353)

- International Journal of Strategic Decision Sciences (IJSDS)  
<http://www.igi-global.com/journals/details.asp?id=8227>

### **Le principali pubblicazioni di Salvatore Greco sono le seguenti:**

- 1) Greco, S., "Binary preference relations: a difference-distance and entropy uncertainty approach", *Foundations of Computing and Decision Sciences*, vol. 17, No. 1, 1992, pp. 16-53.
- 2) Greco, S., Matarazzo, B., Slowinski, R., *Rough set approach to multi-attribute choice and ranking problems*, Research Report 38/95, Institute of Computer Science, Warsaw University of Technology, Warsaw, 1995; and in *Proceedings of the Twelfth International Conference on MCDM*, Hagen (Germany), Springer-Verlag, Berlin, 1997, pp. 318-329.
- 3) Greco, S., Matarazzo, B., Slowinski, R., "Rough approximation of a preference relation by dominance relations", *European Journal of Operational Research*, 117 (1999) 63-83
- 4) Greco, S., Lo Cascio, S., Matarazzo, B., "Rough Sets approach to Stock selection: an application to the Italian Market", In: M. Bertocchi, E. Cavalli, s. Komlosi (eds) *Modelling techniques for Financial Markets and Bank Management*, Physica Verlag, Heidelberg, 1996, pp. 192-211.
- 5) Greco, S., "The splitting property of fuzzy financial laws", Research Report 9606/F, Rotterdam Institute for business Economic Studies, Erasmus University Rotterdam, Rotterdam, 1996.
- 6) Greco, S., Matarazzo, B., Slowinski, R., Tsoukias, A.: *Exploitation of a rough approximation of the outranking relation*. Cahier du LAMSADE no. 152, Université de Paris Dauphine, Paris 1997.
- 7) Greco, S., "The dichotomous approach to soft consensus measurement", in J. Kacprzyk, H. Nurmi and M. Fedrizzi (eds.), *Consensus under Fuzziness*, Kluwer Academic Publishers, Boston, 1997, pp. 111-119.
- 8) Greco, S., "A new PCCA method: IDRA", *European Journal of Operational Research*, 98 (1997) 587-601.
- 9) Greco, S., Matarazzo, B., Slowinski, R.: "A new rough set approach to evaluation of bankruptcy risk". In: C. Zopounidis (ed.): *Operational Tools in the Management of Financial Risks*. Kluwer, Dordrecht, 1998, pp. 121-136.

- 10) Greco, S., Matarazzo, B., Slowinski, R.: "Rough approximation of a preference relation in a pairwise comparison table", In: L. Polkowski, A. Skowron (eds.): *Rough Sets in Data Mining and Knowledge Discovery*. Physica-Verlag, Heidelberg 1998, pp. 13-36.
- 11) Greco, S., Matarazzo, B., Slowinski, R.: "A new rough set approach to multicriteria and multiattribute classification" In: L. Polkowski, A. Skowron (eds.): *Proceedings of the First International Conference on Rough Sets and Current Trends in Computing (RSTCTC '98)*, June 22-26, Warsaw 1998, Springer-Verlag, 1998, pp. 60-67.
- 12) Greco, S., Matarazzo, B., Slowinski, R.: "Fuzzy similarity relation as a basis for rough approximation". In: L. Polkowski, A. Skowron (eds.): *Proceedings of the First International Conference on Rough sets and Current Trends in Computing (RSTCTC '98)*, June 22-26, Warsaw 1998, Springer-Verlag, 1998, pp. 283-289.
- 13) Greco, S., Matarazzo, B., Slowinski, R., Tsoukias, A.: "Exploitation of a rough approximation of the outranking relation in multicriteria choice and ranking". In: T. Stewart, T.J., van den Honert (eds): *Trends in Multicriteria Decision Making*. LNMES, vol. 465, Springer-Verlag, Berlin, 1998, pp.450-460.
- 14) Greco, S., Matarazzo, B., Slowinski, R., "New Developments in the Rough set Approach to Multi-Attribute Decision Analysis", in Tutorial and Research Reviews, *16<sup>th</sup> European Conference on Operational Research*, Brussels, July 12-15, 1998; also in Bulletin of International Rough set Society, vol. 2, September 1998, No. 2/3, pp. 57-87.
- 15) Greco, S., Matarazzo, B., Slowinski, R., "Rough Set Handling of Ambiguity", in Proceedings of 6<sup>th</sup> European Congress on *Intelligent Techniques & Soft Computing*, EUFIT '98, Aachen, September 7-10, 1998, pp. 3-14.
- 16) Greco, S., Matarazzo, B., Slowinski, R., "Conjoint measurement, preference inconsistencies and decision rule model", Proceedings of 2<sup>nd</sup> International Workshop on *Preferences and Decisions*, Trento 1-2-3 July 1998, pp. 49-53.
- 17) Greco, S., Matarazzo, B., Slowinski, R., "On joint use of indiscernibility, similarity and dominance in rough approximation of decision classes", in *Proc. 5<sup>th</sup> International Conference of the Decision Sciences Institute*, Athens, Greece, 1999, 1380-1382; questo articolo ha ricevuto il "Best Theoretical Paper Award" del Decision Sciences Institute, Athens, Greece, July 4-7, 1999.
- 18) Greco, S., Matarazzo, B., Slowinski, R., "Fuzzy dominance as basis for rough approximations", in *Proc. 4<sup>th</sup> Meeting of the EURO WG on Fuzzy Sets and 2<sup>nd</sup> Internat. Conf. on Soft and Intelligent Computing, EUROFUSE-SIC'99*, Budapest, 1999, pp. 273-278.
- 19) Greco, S., B. Matarazzo and R. Slowinski, "The use of rough sets and fuzzy sets in MCDM". Chapter 14 in T. Gal, T. Stewart and T. Hanne (eds.), *Advances in Multiple Criteria Decision Making*. Kluwer Academic Publishers, Dordrecht, 1999, 14.1-14.59.
- 20) Greco, S., Matarazzo, B., Slowinski, R., "Handling missing values in rough set analysis of multi-attribute and multi-criteria decision problems", in N. Zhong, A. Skowron and S. Ohsuga (eds.), *New Directions in Rough Sets, Data Mining and Granular-Soft Computing*, Lecture Notes in Artificial Intelligence, vol. 1711, Springer-Verlag, Berlin, 1999, pp. 146-157

- 21) Greco, S., Matarazzo, B., Slowinski, R., "Rough set processing of vague information using fuzzy similarity relations", in C. Calude and G. Paun (eds.), *From Finite to Infinite*, Springer-Verlag, Berlin, 2000, 149-173.
- 22) Greco, S., Matarazzo, B., Slowinski, R., Zanakis, S., " Rough set analysis of information tables with missing values", in *Proc. 5<sup>th</sup> Internaional Conference of the Decision Sciences Institute*, Athens, Greece, 1999, pp. 1359-1362.
- 23) Greco, S., "Fuzzy measure and Equilibrium Conditions on the financial Market", R. Almeida Riberio, H.-J. Zimmermann, R. R. Yager, J. Kacprzyk (eds.), *Soft Computing in Financial Engineering*, Physica Verlag, Heidelberg, 1999, pp. 39-50.
- 24) Susmaga, R., Slowinski, R., Greco, S., Matarazzo, B., "Computation of reducts for multi-attribute and multi-criteria Classification", *Intelligent Information Systems VIII*, Proceedings of the Workshop held in Ustron, Poland, June 14-18, 1999, pp. 154-163.
- 25) Greco, S., Matarazzo, B., Slowinski, R., "Rule-based approach to multicriteria choice and ranking", Proceedings of the Fourth International Conference on *Multi-Objective Programming and Goal Programming: Theory & Applications*, Ustron, Poland, May 29 - June 1, 2000, pp. 403-423.
- 26) Greco, S., Matarazzo, B., Slowinski, R., "Rough Set approach to decision under uncertainty", Proceedings Trento 2000, 3<sup>rd</sup> International Workshop on Preferences and Decisions, June 8-9-10, 2000, pp. 81-85.
- 27) Greco, S., Matarazzo, B., Slowinski, R., "A Fuzzy extension of the rough set approach to multicriteria and multiattribute sorting". In J. Fodor, B. De Baets and P. Perny : *Preferences and Decisions under Incomplete Information*, Physica-Verlag, Heidelberg, 2000, pp. 131-154.
- 28) Greco, S., Matarazzo, B., Slowinski, R., J. Stefanowski, "Rough sets processing of inconsistent information in decision analysis", *Control and Cybernetics*, vol. 29 (2000) no. 1, 379-404.
- 29) Greco, S., Matarazzo, B., Slowinski, R., Stefanowski, J., "Variable consistency model of dominance based rough set approach", in Wojciech Ziarko and Yiyu Yao (Eds.), *Rough Sets and Current Trends in Computing*, Proceedings of the Second International Conference on Rough Sets and Current Trends in Computing (RSCTC' 2000), Banff, Canada, October 16-19, 2000, Springer-Verlag, Berlin Heidelberg New York, 2000, 170-181.
- 30) Greco, S., Matarazzo, B., Slowinski, R., Stefanowski, J., "An algorithm for induction of decision rules consistent with the dominance principle", in Wojciech Ziarko and Yiyu Yao (Eds.), *Rough Sets and Current Trends in Computing*, Proceedings of the Second International Conference on Rough Sets and Current Trends in Computing (RSCTC' 2000), Banff, Canada, October 16-19, 2000, Springer-Verlag, Berlin Heidelberg New York, 2000, 304-313.
- 31) Greco, S., Matarazzo, B., Slowinski, R., "Rough set approach to decisions under risk", in Wojciech Ziarko and Yiyu Yao (Eds.), *Rough Sets and Current Trends in Computing*, Proceedings of the Second International Conference on Rough Sets and Current Trends in Computing (RSCTC' 2000), Banff, Canada, October 16-19, 2000, Springer-Verlag, Berlin Heidelberg New York, 2000, 160-169.
- 32) Greco, S., Matarazzo, B., Slowinski, R., "Conjoint measurement and rough set approach for multicriteria sorting problems in presence of ordinal criteria", in Colorni, A., Parruccini, M., Roy, B. (eds.), *A-MCD-A*, EUR-Report 19808, Ispra, 2001, pp. 117-144.

- 33) Greco, S., Matarazzo, B., Slowinski, R., Rough Sets Theory for Multicriteria Decision Analysis, *European Journal of Operational Research*, 129, no.1, (2001) 1-47.
- 34) Greco, S., Matarazzo, B., Slowinski, R., "Extension of the rough set approach to multicriteria decision support", *INFOR* 38 (2000) no.3, 161-196.
- 35) Greco, S., Matarazzo, B., Slowinski, R., "Decision rule", for *Encyclopedia of Management*, Gale Research, 2000, pp.178-183.
- 36) Greco, S., Matarazzo, B., Slowinski, R., "Fuzzy dominance-based Rough set approach" in F. Masulli, R. Parenti, G. Pasi (eds), *Advances in Fuzzy Systems and Intelligent Technologies*, Shaker Publishing Maastricht (NL), 2000, pp. 56-66.
- 37) Greco, S., Matarazzo, B., Slowinski, R., Rule Based Decision Support in Multicriteria Choice and Ranking. In: S. Benferhat, Ph. Besnard (eds), *Symbolic and Quantitative Approaches to Reasoning with Uncertainty*, Springer, 2001, pp. 29-47.
- 38) Greco, S., Matarazzo, B., Slowinski, R., "Rough approximation by dominance relations", *International Journal of Intelligent Systems*, 17, no. 2, (2002) 153-171.
- 39) Greco, S., Matarazzo, B., Slowinski, R., "Rough Sets Methodology for Sorting Problems in Presence of Multiple Attributes and Criteria", *European Journal of Operational Research*, 138, no.2, (2002) 247-259.
- 40) Greco, S., Matarazzo, B., Slowinski, R., Preference Representation by means of Conjoint Measurement and Decision Rule Model, in D. Bouyssou, E. Jacquet-Lagréze, P. Perny, R. Slowinski, D. Vanderpooten, Ph. Vincke (eds), *Aiding Decisions with Multiple Criteria*, Kluwer, 2002, pp.263-313.
- 41) R. Slowinski, S. Greco, B. Matarazzo: Axiomatization of utility, outranking and decision-rule preference models for multiple-criteria classification problems under partial inconsistency with the dominance principle. *Control and Cybernetics*, 31, no. 4, (2002) 1005-1035.
- 42) R. Slowinski, S. Greco, B. Matarazzo: Rough set analysis of preference-ordered data. In: J.J. Alpigini, J.F. Peters, A. Skowron, N. Zhong (eds.), *Rough Sets and Current Trends in Computing* (LNAI 2475, Springer-Verlag, Berlin, 2002, pp. 44-59.
- 43) Greco, S., Predki, B. Slowinski, R.: Searching for an equivalence between decision rules and concordance-discordance preference model in multicriteria choice problems. *Control and Cybernetics*, 31 (2002) 921-935.
- 44) Greco, S., Inuiguchi, M., Slowinski, R.: Dominance-based rough set approach using possibility and necessity measures. [In]: J.J. Alpigini, J.F. Peters, A. Skowron, N. Zhong (eds.), *Rough Sets and Current Trends in Computing*. Springer LNAI 2475, 2002, pp. 85-92.
- 45) Greco, S., Matarazzo, B., Slowinski, R., Stefanowski, J.: Importance and Interaction of conditions in Decision Rules. [In]: J.J. Alpigini, J. F. Peters, A. Skowron, N. Zhong (eds.), *Rough Sets and Current Trends in Computing*. LNAI 2475, Springer-Verlag, Berlin, 2002, pp. 255-262.

- 46) Dembczynski, K., Greco, S., Slowinski, R.: Methodology of rough-set-based classification and sorting with hierarchical structure of attributes and criteria. *Control & Cybernetics* 31 (2002) 891-920.
- 47) Slowinski, R., Greco, S., Matarazzo, B.: Axiomatization of utility, outranking and decision-rule preference models for multiple-criteria classification problems under partial inconsistency with the dominance principle. *Control and Cybernetics* 31 (2002) 1005-1035.
- 48) Fortemps, Ph., Greco, S., Slowinski, R.: "Multicriteria choice and ranking using decision rules induced from rough approximation of graded preference relations". [In]: S. Tsumoto, R. Slowinski, J. Komorowski, J.W. Grzymala-Busse (eds.), *Rough Sets and Current Trends in Computing*. LNAI vol. 3066, Springer-Verlag, Berlin, 2004, 508-516.
- 49) Greco, S., Matarazzo, B., Slowinski, R., "Multicriteria classification", chapter 16.1.9 in W. Kloesgen and J. Zytkow (eds.), *Handbook of Data Mining and Knowledge Discovery*, Oxford University Press, New York, 2002, pp. 318-328.
- 50) S. Greco, M. Inuiguchi, R. Slowinski, Rough sets and gradual decision rules. In: G. Wang, O. Lin, Y. Yao, A. Skowron (Eds.), *Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing*, Lecture Notes in Computer Science, vol. 2639, Springer-Verlag, Berlin, 2003, pp. 156–164.
- 51) Greco, S., Inuiguchi, M., Slowinski, R.: A new proposal for fuzzy rough approximations and gradual decision rule representation. [In]: D. Dubois, J. Grzymala-Busse, M. Inuiguchi, L. Polkowski (eds.), *Rough Fuzzy and Fuzzy Rough Sets*. Springer-Verlag, Berlin, 2003.
- 52) S. Greco and J. Figueira, Dealing with interaction between bi-polar multiple criteria preferences in outranking methods. Research Report 11-2003, INESC-Coimbra, Portugal, 2003, 72p.
- 53) M. Inuiguchi, S. Greco, R. Slowinski, T. Tanino: "Possibility and necessity measure specification using modifiers for decision making under fuzziness". *Fuzzy Sets and Systems*, 137 (2003) 151-175.
- 54) L. Bonaccorso, S. Greco, B. Matarazzo, P. Platania, Some New Properties of Risk Measures. In: G. Fandel, U. Backes-Gellner, M. Schluter, J.E. Staufenbiel (eds.). *Modern Concepts of the Theory of the Firm*, Springer, Berlin, 2004, pp. 513-552.
- 55) S. Greco, B. Matarazzo and R. Slowinski. Dominance-Based Rough Set Approach to Knowledge Discovery (I): General Perspective. In N. Zhong, J. Liu (eds.), *Intelligent Technologies for Information Analysis*, Springer, Berlin, 2004, pp. 513-552.
- 56) S. Greco, B. Matarazzo and R. Slowinski, Dominance-Based Rough Set Approach to Knowledge Discovery (II): Extensions and Applications. In N. Zhong, J. Liu (eds. ), *Intelligent Technologies for Information Analysis*, Springer, Berlin, 2004, pp. 553-612.
- 57) S. Greco, Z. Pawlak, R. Slowinski: "Can Bayesian confirmation measures be useful for rough set decision rules?" *Engineering Application of Artificial Intelligence*, 2004, 17 (2004) 345-361.

- 58) S. Greco, B. Matarazzo and R. Slowinski, "Axiomatic characterization of a general utility function and its particular cases in terms of conjoint measurement and rough-set decision rules". *European Journal of Operational Research* 158 (2004) 271-292.
- 59) S. Angilella, S. Greco, F. Lamantia and B. Matarazzo, "Assessing non-additive utility for multicriteria decision aid", *European Journal of Operational Research* 158 (2004) 734-744.
- 60) Fortemps, Ph., Greco, S., Slowinski, R.: "Multicriteria choice and ranking using decision rules induced from rough approximation of graded preference relations". [In]: S. Tsumoto, R. Slowinski, J. Komorowski, J.W. Grzymala-Busse (eds.), *Rough Sets and Current Trends in Computing*. LNAI vol. 3066, Springer-Verlag, Berlin, 2004, 508-516.
- 61) J. Figueira, S. Greco and M. Erghott (Editors). *Multiple Criteria Decision Analysis: State of the Art Surveys*, Springer, Berlin, 2005.
- 62) S. Greco, B. Matarazzo and R. Slowinski. "Decision rule approach". In: J. Figueira, S. Greco and M. Erghott (Editors). *Multiple Criteria Decision Analysis: State of the Art Surveys*, Springer, Berlin, 2005, pp. 507-563.
- 63) S. Greco, B. Matarazzo, N. Pappalardo and R. Slowinski. Measuring expected effects of interventions based on decision rules. *Journal of Experimental & Theoretical Artificial Intelligence*, Vol. 17, No. 1-2, 2005, 103-118.
- 64) Slowinski R., Greco, S., Matarazzo, B., Rough set based decision support. Chapter 16 in: E.K. Burke and G. Kendall (eds.), *Search Methodologies: Introductory Tutorials in Optimization and Decision Support Techniques*, Springer-Verlag, New York, 2005.
- 65) Sz. Wilk, R. Slowinski, W. Michalowski, S. Greco. Supporting triage of children with abdominal pain in the emergency room. *European Journal of Operational Research* 160 (2005) 696-709.
- 66) S. Greco, B. Matarazzo and R. Slowinski. Rough membership and Bayesian confirmation measures for Parameterized Rough Sets. In D. Slezak, J. Yao, J. Peters, W. Ziarko, X. Hu (eds.), *Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing*, LNAI 3641, Springer, Berlin, 2005, pp. 314-324.
- 67) Dembczynski, K., S. Greco, and R. Slowinski. Second-Order Rough Approximation in Multi-criteria Classification with Imprecise Evaluations and Assignments. In D. Slezak, J. Yao, J. Peters, W. Ziarko, X. Hu (eds.), *Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing*, LNAI 3641, Springer, Berlin, 2005, pp. 54-63.
- 68) S. Greco, B. Matarazzo and R. Slowinski. Generalizing Rough Set Theory through Dominance-based Rough Set Approach. In D. Slezak, J. Yao, J. Peters, W. Ziarko, X. Hu (eds.), *Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing*, LNAI 3642, Springer, Berlin, 2005, pp. 1-11.
- 69) S. Greco, M. Inuiguchi, R. and R. Slowinski, "Modus ponens versus modus tollens associated with rough gradual decision rules induced from a decision table". *International Journal of Hybrid Intelligent Systems* 2 (2005) 109-131.



- 70) Greco S., Giove S., Matarazzo B., *Generalizing Choquet integral with level dependent capacities*, Proceedings of Nonlinear Theory and its Applications, Bologna, September 11-14, 2006.
- 71) Figueira, J., Greco, S., Roy, B., ELECTRE Methods with interaction between criteria: an extension of the concordance index, *Cahier du Lamsade*, 242, Paris, 2006
- 72) S. Greco, M. Inuiguchi, R. and R. Slowinski, "Fuzzy rough sets and multiple-premise gradual decision rules". *International Journal of Approximate Reasoning* 41 (2006) 179–211.
- 73) Barbagallo, S., Consoli, S., Greco, S., Pappalardo, N., Zimbone S. M., Discovering reservoir operating rules by a rough set approach. *Water Resources Management*, Issue: 1, February, 2006, pp. 19-36.
- 74) Greco, S., Matarazzo, B., Slowinski, R., Dominance-based Rough Set Approach to Case-Based Reasoning. In V.Torra, Y. Narukawa, A.Valls, J. Domingo-Ferrer (eds.), *Modelling Decisions for Artificial Intelligence*, LNAI 3885, Springer, Berlin, 2006, pp. 7-18
- 75) Greco, S., Hata, Y., Hirano, S., Inuiguchi, M., Miyamoto, S., Nguyen H. S., Slowinski R. (eds.) *Rough Sets and Current Trends in Computing*, LNAI 4259, Springer, Berlin, 2006
- 76) Blaszczynski, J., Greco, S., Slowinski, R., Szlag, M., On Variable Consistency Dominance-Based Rough Set Approaches, in Greco, S. et al (eds.), *Rough Sets and Current Trends in Computing*, LNAI 4259, Springer, Berlin, 2006, pp. 191-202
- 77) Greco, S., Matarazzo, B., Slowinski, R., Rough Set Approach to Customer Satisfaction Analysis, in Greco, S. et al (eds.), *Rough Sets and Current Trends in Computing*, LNAI 4259, Springer, Berlin, 2006, pp. 284-295
- 78) Greco, S., Matarazzo, B., Slowinski, R., Dominance-based Rough Set Approach to decision involving a plurality of Decision Makers, in Greco, S. et al (eds.), *Rough Sets and Current Trends in Computing*, LNAI 4259, Springer, Berlin, 2006, pp. 306-317
- 79) Dembczynski, K., S. Greco, Kotlowski, W., Slowinski, R., Quality of Approximation in Multi-criteria Classification Problems, in Greco, S. et al (eds.), *Rough Sets and Current Trends in Computing*, LNAI 4259, Springer, Berlin, 2006, pp. 318-327
- 80) Greco, S., Matarazzo, B., Slowinski, R., Customer satisfaction analysis based on rough set approach, *Zeitschrift fr Betriebswirtschaft*, Gabler Verlag, Wiesbaden, N.3, 2007, pp. 325-339.
- 81) Błaszczynski, J., Greco, S., Słowiński, R., Szlag, M., Monotonic variable consistency rough set approaches (2007) *Lecture Notes in Computer Science*, 4481 LNAI, pp. 126-133.

- 82) Greco, S., Słowiński, R., Yao, Y., Bayesian decision theory for dominance-based rough set approach (2007) *Lecture Notes in Computer Science*, 4481 LNAI, pp. 134-141.
- 83) Dembczyński, K., Greco, S., Kotłowski, W., Słowiński, R., Optimized generalized decision in dominance-based rough set approach (2007), *Lecture Notes in Computer Science*, 4481 LNAI, pp. 118-125.
- 84) Dembczyński, K., Greco, S., Kotłowski, W., Słowiński, R., Relationship between loss functions and confirmation measures (2007), *Lecture Notes in Computer Science*, 4482 LNAI, pp. 338-345.
- 85) Greco, S., Matarazzo, B., Słowiński, R., Dominance-based rough set approach as a proper way of handling graduality in rough set theory (2007), *Lecture Notes in Computer Science*, (, 4400 LNCS (PART 2), pp. 36-52.
- 86) Słowiński, R., Greco, S., Matarazzo, B., Dominance-based rough set approach to reasoning about ordinal data (2007), *Lecture Notes in Computer Science*, 4585 LNAI, pp. 5-11.
- 87) Greco, S., Słowiński, R., Stefanowski, J., Evaluating importance of conditions in the set of discovered rules (2007), *Lecture Notes in Computer Science*, 4482 LNAI, pp. 314-321.
- 88) Dembczyński, K., Greco, S., Kotłowski, W., Słowiński, R., Statistical model for rough set approach to multicriteria classification (2007), *Lecture Notes in Computer Science*, 4702 LNAI, pp. 164-175.
- 89) Błaszczyński, J., Greco, S., Słowiński, R., Multi-criteria classification - A new scheme for application of dominance-based decision rules (2007) *European Journal of Operational Research*, 181 (3), pp. 1030-1044.
- 90) Brzezinska, I., Greco, S., Słowiński, R., Mining Pareto-optimal rules with respect to support and confirmation or support and anti-support (2007) *Engineering Applications of Artificial Intelligence*, 20 (5), pp.587-600.
- 91) Greco, S., Matarazzo, B., Słowiński, R., Algebraic Structures for Dominance-Based Rough Set Approach. *Lecture Notes in Computer Science*, 5009 LNAI, pp. 252-259
- 92) Greco, S., Matarazzo, B., Słowiński, R., Case-Based Reasoning Using Gradual Rules Induced from Dominance-Based Rough Approximations, *Lecture Notes in Computer Science*, 5009 LNAI, pp. 268-275
- 93) Fortemps, P., Greco, S., & Słowiński, R. (2008). Multicriteria decision support using rules that represent rough-graded preference relations. *European Journal of Operational Research*, 188(1), 206-223.
- 94) Greco, S., Mousseau, V., & Słowiński, R. (2008). Ordinal regression revisited: Multiple criteria ranking using a set of additive value functions. *European Journal of Operational Research*, 191(2), 415-435.
- 95) Greco, S., Słowiński, R., Szczech, I., Assessing the Quality of Rules with a New Monotonic Interestingness Measure  $Z_r$ , in L. Rutkowski, R. Tadeusiewicz, L. A. Zadeh, J. M. Zurada (eds.), *Artificial Intelligence and Soft Computing (ICAISC 2008)*. Lecture Notes in Artificial Intelligence, vol.5097, Springer-Verlag, Berlin, 2008, pp. 556-565

- 96) Greco, S., Matarazzo, B., Slowinski, R., Dominance-Based Rough Set Approach to Interactive Multiobjective Optimization, in J.Branke, K.Deb, K.Miettinen, R.Słowiński (eds.), *Multiobjective Optimization: Interactive and Evolutionary Approaches*. Springer-Verlag, Berlin, 2008, 121-155
- 97) Belton, V., Branke, J., Eskelinen, P., Greco, S., Molina, J., Ruiz, F., Slowinski, R., Interactive Multiobjective Optimization from a Learning Perspective in J.Branke, K.Deb, K.Miettinen, R.Słowiński (eds.), *Multiobjective Optimization: Interactive and Evolutionary Approaches*. Springer-Verlag, Berlin, 2008, 405-433
- 98) Figueira, J. R., Greco, S., Mousseau, V., Slowinski, R., Interactive Multiobjective Optimization Using a Set of Additive Value Functions in J.Branke, K.Deb, K.Miettinen, R.Słowiński (eds.), *Multiobjective Optimization: Interactive and Evolutionary Approaches*. Springer-Verlag, Berlin, 2008, 97-119
- 99) S.Greco, B.Matarazzo, R.Słowiński: Dominance-based rough set approach and bipolar abstract rough approximation spaces, in C.-C.Chan, J.W.Grzymala-Busse, W.P.Ziarko (eds.), *Rough Sets and Current Trends in Computing* (RSCTC 2008). Lecture Notes in Artificial Intelligence, vol. 5306, Springer-Verlag, Berlin, 2008, pp.31-40.
- 100) Greco, S., Dominance-Based Rough Set Approach for Decision Analysis - A Tutorial in G.Wang, T.Li, J.W.Grzymala-Busse, D.Miao, A.Skowron, Y.Yao (eds.), *Rough Sets and Knowledge Technology* (RSKT 2008). Lecture Notes in Artificial Intelligence, vol. 5009, Springer-Verlag, Berlin, 2008, pp. 23-24
- 101) Greco, S., Matarazzo, B., Slowinski, R., Algebraic structures for dominance-based rough set approach, in G.Wang, T.Li, J.W.Grzymala-Busse, D.Miao, A.Skowron, Y.Yao (eds.), *Rough Sets and Knowledge Technology* (RSKT 2008). Lecture Notes in Artificial Intelligence, vol. 5009, Springer-Verlag, Berlin, 2008, pp. 252-259
- 102) Greco, S., Matarazzo, B., Slowinski, R., Case-Based Reasoning Using Gradual Rules Induced from Dominance-Based Rough Approximations, in G.Wang, T.Li, J.W.Grzymala-Busse, D.Miao, A.Skowron, Y.Yao (eds.), *Rough Sets and Knowledge Technology* (RSKT 2008). Lecture Notes in Artificial Intelligence, vol. 5009, Springer-Verlag, Berlin, 2008, 268-275
- 103) Greco, S., Matarazzo, B., Slowinski, R., Fuzzy Set Extensions of the Dominance-Based Rough Set Approach, in H.Bustince, F.Herrera and J.Montero (eds.), *Fuzzy Sets and Their Extensions: Representation, Aggregation and Models*. Studies in Fuzziness and Soft Computing, vol. 220, Springer-Verlag, Berlin, 2008, 239-261
- 104) S.Greco, B.Matarazzo, R.Słowiński: Parameterized rough set model using rough membership and Bayesian confirmation measures. *International Journal of Approximate Reasoning*, 49 (2008) 285-300.
- 105) Grabisch, M., Greco, S., Pilot, M., Bipolar and bivariate models in multicriteria decision analysis: Descriptive and constructive approaches. *Int. J. Intell. Syst.* 23(9): 930-969 (2008)
- 106) W.Kotłowski, K.Dembczyński, S.Greco, R.Słowiński: Stochastic dominance-based rough set model for ordinal classification. *Information Sciences*, 178 (2008) no. 21, 4019-4037

- 107) Greco, S., Mousseau, V., Slowinski, R., The Possible and the Necessary for Multiple Criteria Group Decision, in Rossi, F., Tsoukias, A. (eds) *Proceedings of Algorithmic Decision Theory First International Conference ADT 2009, Venice, Italy, October 20-23, 2009*, LNAI 5783, Springer Berlin Heidelberg, 203-214
- 108) Branke, J., Greco, S., Slowinski, R., Zielniewicz, P., Interactive Evolutionary Multiobjective Optimization Using Robust Ordinal Regression. In M. Ehrgott, C.M. Fonseca, X. Gandibleux, J.-K. Hao, M. Sevaux (eds.) *Evolutionary Multi-Criterion Optimization (EMO'09)*, vol. 5467, pp. 554–568, Springer, Berlin, 2009, pp. 554-568
- 109) Angilella, S., Greco, S., Matarazzo, B., Non-additive Robust Ordinal Regression with Choquet integral, Bipolar and Level Dependent Choquet integrals, in J. P. Carvalho, D. Dubois, U. Kaymak, J. M. da Costa Sousa, *Proceedings of the Joint 2009 International Fuzzy Systems Association World Congress and 2009 European Society of Fuzzy Logic and Technology Conference (IFSA7EUSFLAT)*, Lisbon, Portugal, July 20-24, 2009, 1194-1199
- 110) Slowinski, R., Greco, S., Matarazzo, B., Rough Sets in Decision Making. [In]: R.A.Meyers (ed.): *Encyclopedia of Complexity and Systems Science*, Springer, New York, 2009, pp. 7753-7786
- 111) Greco, S., Matarazzo, B., Slowinski, R., Granular Computing and Data Mining for Ordered Data – the Dominance-based Rough Set Approach. [In]: R.A.Meyers (ed.): *Encyclopedia of Complexity and Systems Science*, Springer, New York, 2009, pp. 4283-4305
- 112) Greco, S., Slowinski, R., Szech, I., Analysis of monotonicity properties of some rule interestingness measures. *Control and Cybernetics* 38(1): 9-25 (2009)
- 113) Figueira, J., Greco, S., Slowinski, R., Building a set of additive value functions representing a reference preorder and intensities of preference: GRIP method. *European Journal of Operational Research* 195(2): 460-486 (2009)
- 114) Blaszczynski, J., Greco, S., Slowinski, R., Szelag, M., Monotonic Variable Consistency Rough Set Approaches. *Int. J. Approx. Reasoning* 50(7): 979-999 (2009)
- 115) Greco, S., Marques Pereira, R. A., Squillante, M., Yager, R., Kacprzyk, J. (eds.), *Preferences and Decisions - Models and Applications*, Springer 2010
- 116) Yu, J., Greco, S., Lingras, P., Wang, G., Skowron, A., (eds.), *Rough Set and Knowledge Technology - 5th International Conference, RSKT 2010, Beijing, China, October 15-17, 2010*. Proceedings Springer 2010
- 117) Greco, S., Matarazzo, B., Slowinski, R., Interactive Evolutionary Multiobjective Optimization using Dominance-based Rough Set Approach. *IEEE Congress on Evolutionary Computation 2010*: 1-8
- 118) Angilella, S., Greco, S., Matarazzo, B., The Most Representative Utility Function for Non-Additive Robust Ordinal Regression, in E. Hüllermeier, R. Kruse, F. Hoffmann (Eds.): *Computational Intelligence for Knowledge-Based Systems Design, 13th International Conference on Information*

*Processing and Management of Uncertainty, IPMU 2010*, Dortmund, Germany, June 28 - July 2, 2010. Proceedings. Lecture Notes in Computer Science 6178 Springer 2010, pp. 220-229

- 119) Greco, S., Slowinski, R., Szczech, I., Alternative Normalization Schemas for Bayesian Confirmation Measures, in E. Hüllermeier, R. Kruse, F. Hoffmann (Eds.): *Computational Intelligence for Knowledge-Based Systems Design, 13th International Conference on Information Processing and Management of Uncertainty, IPMU 2010*, Dortmund, Germany, June 28 - July 2, 2010. Proceedings. Lecture Notes in Computer Science 6178 Springer 2010, pp.230-239
- 120) Greco, S., Matarazzo, B., Slowinski, R., Dominance-Based Rough Set Approach to Preference Learning from Pairwise Comparisons in Case of Decision under Uncertainty, in in E. Hüllermeier, R. Kruse, F. Hoffmann (Eds.): *Computational Intelligence for Knowledge-Based Systems Design, 13th International Conference on Information Processing and Management of Uncertainty, IPMU 2010*, Dortmund, Germany, June 28 - July 2, 2010. Proceedings. Lecture Notes in Computer Science 6178 Springer 2010, pp. 584-594
- 121) Greco, S., Matarazzo, B., Slowinski, R., Algebra and Topology for Dominance-Based Rough Set Approach. In Z. W Ras and L. S. Tsay, *Advances in Intelligent Information Systems*, Studies in Computational Intelligence, 2010, Volume 265/2010, Springer, pp. 43-78
- 122) Greco, S., Matarazzo, B., Slowinski, R., Dominance-Based Rough Set Approach to Interactive Evolutionary Multiobjective Optimization. In J. Branke, K. Deb, K. Miettinen, and R. Slowinski (eds.) *Multiobjective Optimization: Interactive and Evolutionary Approaches*, State-of-the-Art Survey series of the LNCS, vol. 5252, Springer, Berlin, pp. 121-155.
- 123) Greco, S., Matarazzo, B., Slowinski, R., Dominance-based Rough Set Approach to decision under uncertainty and time preference. *Annals of Operations Research* 176 (1): 41-75 (2010)
- 124) Angilella, S., Greco, S., Matarazzo, B., Non-additive robust ordinal regression: A multiple criteria decision model based on the Choquet integral. *European Journal of Operational Research* 201(1): 277-288 (2010)
- 125) Greco, S., Mousseau, V., Slowinski, R., Multiple criteria sorting with a set of additive value functions. *European Journal of Operational Research* 207 (3): 1455-1470 (2010)
- 126) Greco, S., Matarazzo, B., Slowinski, R., On Topological Dominance-based Rough Set Approach. J.F. Peters et al. (eds), *Transaction on Rough Sets XII*, 21-45 (2010)
- 127) Greco, S., Matarazzo, B., Slowinski, R., Ordinal Qualitative Scales. in M.Ehrgott, B.Naujoks, T.J.Stewart, J.Wallenius (eds.), *Multiple Criteria Decision Making for Sustainable Energy and Transportation Systems*. LNEMS 634, Springer, Berlin, 2010, pp. 269-276
- 128) Takahashi, R. H. C., Deb, K., Wanner, E., Greco, S. (eds.), *Evolutionary Multi-Criterion Optimization - 6th International Conference, EMO 2011*, Ouro Preto, Brazil, April 5-8, 2011. Proceedings Springer 2011

- 129) Greco, S., Matarazzo, B., Slowinski, R., Interactive Multiobjective Mixed-Integer Optimization Using Dominance-Based Rough Set Approach. In R. H. Takahashi et al (eds.), *Evolutionary Multi-Criterion Optimization - 6th International Conference, EMO 2011*, Ouro Preto, Brazil, April 5-8, 2011. Proceedings Springer 2011, pp. 241-253
- 130) Greco, S., Slowinski, R., Szczech, I., New property for rule interestingness measures. *IEEE Proceedings of Federated Conference on Computer Science and Information Systems (FedCSIS)*, Szczecin, Poland, 18 -21 September, 2011, 103-108
- 131) Greco, S., Matarazzo, B., Slowinski, R., Dominance-Based Rough Set Approach on Pairwise Comparison Tables to Decision Involving Multiple Decision Makers. *6th International Conference on Rough Sets and Knowledge Technology (RSKT'11)* Oct 9-12, 2011, Banff, Canada, 6954 LNAI, pp. 126-135
- 132) Szlag, M., Greco, S., Blaszczynski, J., Slowinski, R., Case-Based Reasoning Using Dominance-Based Decision Rules. *6th International Conference on Rough Sets and Knowledge Technology (RSKT'11)* Oct 9-12, 2011, Banff, Canada, 6954 LNAI, 404-413
- 133) M.G. Augeri, R. Colombrina, S. Greco, A. Lo Certo, B. Matarazzo, R. Słowiński: Dominance-Based Rough Set Approach to budget allocation in highway maintenance activities. *Journal of Infrastructure Systems*, 17 (2011) no. 2, 75-85
- 134) Greco, S., Matarazzo, B., Slowinski, R., Zanakis, S. Global investing risk: a case study of knowledge assessment via rough sets. *Annals of Operation Research* 185(1): 105-138 (2011)
- 135) Greco, S., Kadzinski, M., Slowinski, R., Selection of a representative value function in robust multiple criteria sorting. *Computers & Operation Research* 38(11): 1620-1637 (2011)
- 136) Greco, S., Kadzinski, M., Mousseau, V., Slowinski, R., ELECTRE<sup>GKMS</sup>: Robust ordinal regression for outranking methods. *European Journal of Operational Research* 214(1): 118-135 (2011)
- 137) Greco, S., Matarazzo, B., Slowinski, R., The Choquet integral with respect to a level dependent capacity. *Fuzzy Sets and Systems* 175(1): 1-35 (2011)
- 138) Yao, J., Yang, Y., Slowinski, R., Greco, S. Li, H. Mitra. S. Polkowski, L. (eds.), *Rough Sets and Current Trends in Computing - 8th International Conference, RSCTC 2012*, Chengdu, China, August 17-20, 2012. Proceedings, Springer 2012
- 139) Greco, S., Slowinski, R., Szczech, I., Analysis of Symmetry Properties for Bayesian Confirmation Measures. in J. Yao et al. (eds. ), *Rough Sets and Current Trends in Computing - 8th International Conference, RSCTC 2012*, Chengdu, China, August 17-20, 2012. Proceedings, Springer 2012, pp. 207-214
- 140) Kadzinski, M., Greco, S., Slowinski, R., Selection of a representative set of parameters for robust ordinal regression outranking methods, *Computers & OR*, 39(11) 2012, 2500-2519

- 141) Greco, S., Kadzinski, M., Mousseau, V., Slowinski, R., Robust ordinal regression for multiple criteria group decision: UTA<sup>GMS</sup>-GROUP and UTADIS<sup>GMS</sup>-GROUP. *Decision Support Systems* 52(3): 549-561 (2012)
- 142) Corrente, S., Greco, S., Slowinski, R., Multiple Criteria Hierarchy Process in Robust Ordinal Regression. *Decision Support Systems* 53(3): 660-674 (2012)
- 143) Blaszczynski, J., Greco, S., Slowinski, R., Inductive discovery of laws using monotonic rules. *Eng. Appl. of AI*, 25(2): 284-294 (2012)
- 144) Kadzinski, M., Greco, S., Slowinski, R., Selection of a representative value function in robust multiple criteria ranking and choice. *European Journal of Operational Research* 217(3): 541-553 (2012)
- 145) Greco, S., Matarazzo, B., Slowinski, R., The Bipolar Complemented de Morgan Brouwer-Zadeh Distributive Lattice as an Algebraic Structure for the Dominance-based Rough Set Approach. *Fundam. Inform.* 115(1): 25-56 (2012)
- 146) Greco, S., Bouchon-Meunier, B., Coletti, G., Fedrizzi, M., Matarazzo, B., Yager, R. R. (eds.), *Advances on Computational Intelligence - 14th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, IPMU 2012*, Catania, Italy, July 9-13, 2012. Proceedings, Part I, II, III, IV, Springer 2012
- 147) Gurrieri, M., Siebert, X., Fortemps, Ph., Greco, S., Slowinski, R., Label Ranking: A New Rule-Based Label Ranking Method. In Greco, S., Bouchon-Meunier, B., Coletti, G., Fedrizzi, M., Matarazzo, B., Yager, R. R. (eds.), *Advances on Computational Intelligence - 14th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, IPMU 2012*, Catania, Italy, July 9-13, 2012. Proceedings, Part I, Springer 2012, pp. 613-623
- 148) Greco, S., Matarazzo, B., Slowinski, R., Distinguishing Vagueness from Ambiguity by Means of Pawlak-Brouwer-Zadeh Lattices. In Greco, S., Bouchon-Meunier, B., Coletti, G., Fedrizzi, M., Matarazzo, B., Yager, R. R. (eds.), *Advances on Computational Intelligence - 14th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, IPMU 2012*, Catania, Italy, July 9-13, 2012. Proceedings, Part I, Springer 2012, pp. 624-632
- 149) Greco, S., Mesiar, R., Rindone, F., The Bipolar Universal Integral, in Greco, S., Bouchon-Meunier, B., Coletti, G., Fedrizzi, M., Matarazzo, B., Yager, R. R. (eds.), *Advances on Computational Intelligence - 14th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, IPMU 2012*, Catania, Italy, July 9-13, 2012. Proceedings, Part III, Springer 2012, pp. 360-369
- 150) Angilella, S., Corrente, S., Greco, S., SMAA-Choquet: Stochastic Multicriteria Acceptability Analysis for the Choquet Integral, in Greco, S., Bouchon-Meunier, B., Coletti, G., Fedrizzi, M., Matarazzo, B., Yager, R. R. (eds.), *Advances on Computational Intelligence - 14th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, IPMU 2012*, Catania, Italy, July 9-13, 2012. Proceedings, Part IV, Springer 2012, pp. 248-257
- 151) Corrente, S., Figueira, J. R., Greco, S., Interaction of Criteria and Robust Ordinal Regression in Bipolar PROMETHEE Methods. in Greco, S., Bouchon-Meunier, B., Coletti, G., Fedrizzi, M., Matarazzo, B., Yager, R. R. (eds.), *Advances on Computational Intelligence - 14th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, IPMU 2012*, Catania, Italy, July 9-13, 2012. Proceedings, Part IV, Springer 2012, pp. 469-479

- 152) Greco, S., Słowiński, R., Szczech, I. Properties of rule interestingness measures and alternative approaches to normalization of measures (2012) *Information Sciences*, 216, pp. 1-16.
- 153) Corrente, S., Greco, S., Słowiński, R. Multiple Criteria Hierarchy Process with ELECTRE and PROMETHEE (2013) *Omega*, 41 (5), pp. 820-846.
- 154) Kadziński, M., Greco, S., Słowiński, R. RUTA: A framework for assessing and selecting additive value functions on the basis of rank related requirements (2013) *Omega*, 41 (4), pp. 735-751.
- 155) Greco, S., Słowiński, R., Zielniewicz, P. Putting Dominance-based Rough Set Approach and robust ordinal regression together (2013) *Decision Support Systems*, 54 (2) 891-903.
- 156) Greco, S., Matarazzo, B., Słowiński, R., Beyond Markowitz with multiple criteria decision aiding, *Journal of Business Economics* (2013) 83:29–60