

# **CURRICULUM OF PROFESSOR ANTONIO MATURO**

## **Current Academic Position**

He is Full Professor, status: "Straordinario" of Mathematical Methods for Economics and Actuarial and Financial Sciences, S.S.D. SECS-S/06 in the Faculty of Social Sciences of the University of Chieti – Pescara (Italy).

He is appointed Director of the Department of Social Sciences from November, 1, 2007 to October, 31, 2010.

He is the Faculty Delegate for International Relations from the year 2003, and the coordinator of many Socrates Erasmus projects e.g. with Romania, Greece, Austria, Spain, Sweden e other countries.

## **He lectures:**

- Mathematical Models for Social Sciences;
- Mathematics for Social Sciences;
- Social Statistics;
- Informatics;
- Logic and Foundations of Mathematics.

## **Previous Activities and Main Academic and Educational Qualifications**

He is tenured in the University of Chieti – Pescara (Italy) from .1974, firstly as "Assistente Ordinario", after as Associate Professor from 1985, and finally Full Professor "Straordinario" from 2006.

He has Degree in Mathematics, Specialization in Operational Research with honours.

He lectured many courses in the University of Chieti – Pescara and other Universities.

For examples, in addition of the present courses, for many years he has lectured:

- Institutions of Mathematics 1 e 2 (Analysis and Geometry);
- Probability and Statistics.

## **Research Activities**

The main research activity concern:

- A) Formulation of Mathematical Models and related algorithms for decision making and classification problems in Social Sciences and Economics, in condition of Uncertainty, also with the use of linguistic variables.
- B) Foundations of the Subjective Probability, Coherence and extension of the Coherence Theory to a most general ambit for assessment of scores and their aggregation in multicriteria and multipersons decision making problems.
- C) Applications of Game Theory in the Social Ambit. Fuzzy Games.

He is author of more than 100 scientific papers and didactic books.

### **Some activities in Mathematical Journals and Societies**

He is Referee and Associate editor of National and International Mathematical Journals. He is also Editor of many Books and Proceeding of Conferences.

From 1987 he is the President of the section Mathesis (Italian Society of Mathematical and Physical Sciences from 1895) of Pescara and from 1999 he is the National Secretary of the Mathesis. From 2001 he is the Managing Director of the Journal "Periodico di Matematiche".

### **Recent Publications:**

1. MATURO A, VENTRE A. (2008). ***Reaching consensus in multiagent decision making.*** In MTISD 2008, Methods, Models and Information Technologies dfor Decision Support Systems, Lecce, 18-20 settembre 2008, ISBN 978-88-8305-060-2
2. MATURO A. CONTINI R. M. (2008). ***Logica Fuzzy e Integrazione Scolastica.*** In MTISD 2008, Methods, Models and Information Technologies dfor Decision Support Systems, Lecce, 18-20 settembre 2008, ISBN 978-88-8305-060-2
3. MATURO A, VENTRE A. (2008). ***Models for Consensus in Multiperson Decision Making.*** In: NAFIPS Conference Proceedings 08 New York/Volumes/NAFIPS/\_2008/data/NAFIPS\_R\_papers. North American Fuzzy Information Processing Society (NAFIPS)08 Conference. Rockefeller University, New York, USA. May 19-22, 2008. ISBN/ISSN: 978-1-4244-2352-1/08/. NEW YORK: IEEE Press (UNITED STATES).

4. MATURO A, VENTRE A. (2008). **MULTIPERSON DECISION MAKING, CONSENSUS AND ASSOCIATED HYPERSTRUCTURES**. In: PROC. OF THE ABSTRACTS 10TH INTERNATIONAL CONGRESS ON ALGEBRAIC STUCTURES AND APPL.(AHA)2008, BRNO, SEPT 3-9, 2008. 10TH INTERNATIONAL CONGRESS ON ALGEBRAIC STUCTURES AND APPL.(AHA)2008. Brno. Sept 3-9, 2008. (vol. 1, pp. 73-74). ISBN 978-80-7231-529-1. BRNO: Univerzita obrani.
5. MATURO A. (2008), **On some Structures of Fuzzy Numbers**. In: PROC. OF THE ABSTRACTS 10TH INTERNATIONAL CONGRESS ON ALGEBRAIC STUCTURES AND APPL.(AHA)2008, BRNO, SEPT 3-9, 2008. 10TH INTERNATIONAL CONGRESS ON ALGEBRAIC STUCTURES AND APPL.(AHA)2008. Brno. Sept 3-9, 2008. (vol. 1, pp. 71-72). ISBN 978-80-7231-529-1. BRNO: Univerzita obrani.
6. MATURO A., VENTRE A. G. S. (2008). **ON SOME EXTENSIONS OF THE DE FINETTI COHERENT PREVISION IN A FUZZY AMBIT**, Journal of Basic Science 4, No. 1(2008), 95-103
7. MATURO A., VENTRE A. G. S. (2008). **UNCERTAINTY MEASURES AND NON ADDITIVE SET FUNCTIONS**, Journal of Basic Science 4, No. 1(2008), 105-112
8. MATURO A., ROSIELLO M. G., VENTRE A. G. S. (2008). **Sintesi dei giudizi e decisioni di gruppo**, in: Periodico di Matematiche, Serie 10, vol 1, 1, 2008, pp. 53-66. ISSN: 1582-8832.
9. MATURO A. (2007). **Algebraic hyperstructures and coherent conditional previsions**. In: Advances in Abstract Algebra, Tofan, Gontineau, Tarnauceau Editors, pp. 1-18. A. Miller, IASI. ISBN: 973-86987-8-2
10. MATURO A., MIGLIONICO M.C. (2007). **Fuzzy models for the evaluation of the didactics in the university**. In: Advances in Abstract Algebra, Tofan, Gontineau, Tarnauceau Editors, pp. 177-182. A. Miller, IASI. ISBN: 973-86987-8-2
11. MATURO A. (2006). **Fuzzy Conditional Probabilities by the Subjective Point of View**. In: EDITOR TOFAN I. Advances in Mathematics of Uncertainty. (pp. 99-108). ISBN: 973-730-257-5. IASI: Editura Performantica (ROMANIA).
12. MATURO A., (2006), **A geometrical Approach to the Coherent Conditional Probability and Its Fuzzy Extensions**, Scientific Annals of University of A.. S. V. M., "Ion Ionescu de la Brad", Iasi, XLIX, 2, 2006, 243-256 s

13. MATURO A., SQUILLANTE S., VENTRE A. (2006). ***Consistency for assessments of uncertainty evaluations in non-additive settings.*** In: P. AMENTA, L. D'AMBRA, M. SQUILLANTE E VENTRE A.G. Metodi, modelli e tecnologie dell'informazione a supporto delle decisioni. (pp. 75-88). ISBN: 88-464-7440-62005. MILANO: Franco Angeli.
14. MATURO A., SQUILLANTE S., VENTRE A. (2006). ***Consistency for non additive measures: analytical and algebraic methods.*** In: B. REUSCH. Computational Intelligence, Theory and Applications. (pp. 29-40). ISBN: 10-3-540-34 780-1. BERLIN: SPRINGER-Verlag.
15. MATURO A., VARONE G. (2006). ***A Mathematical Model to Choosing among Fuzzy Financial Operations.*** In: EDITOR TOFAN I. Advances in Mathematics of Uncertainty. (pp. 89-98). ISBN: 973-730-257-5. IASI: Editura Performantica (ROMANIA).
16. MATURO A., VARONE G. (2006). ***La Geometria Proiettiva. Da Leon Battista Alberti alle Geometrie Finite e Topologia nella Pittura e nell'Architettura.*** In: Arte e Matematica. Un sorprendente binomio. Vasto. 10-12 aprile 2003. (pp. 207-220). ISBN/ISSN: 88-89776-27-7. NAPOLI: Arte tipografica editrice (ITALY).
17. CIALFI E:, DI SPALATRO D., MATURO A. (2006). ***L'opera pianistica in forma di sonata in alcuni autori classici: un'analisi comparata basata sulla funzione di entropia*** In: Arte e Matematica. Un sorprendente binomio. Vasto. 10-12 aprile 2003. (pp. 49-64). ISBN/ISSN: 88-89776-27-7. NAPOLI: Arte tipografica editrice (ITALY).
18. MATURO A. (2005). ***Coherent Fuzzy Previsions and Applications to Social Sciences.*** LUCRARI STIINTIFICE - UNIVERSITATEA AGRONOMICA SI DE MEDICINA VETERINARA "ION IONESCU DE LA BRAD" IASI. SERIA HORTICULTURA. vol. TOM XLVIII,v.2-2005, pp. 27-38 ISSN: 1454-7376.
19. DI SCISCIOLA S, MATURO A. (2005). ***Fuzzy Models to organize an Efficient Sustainable Assistance for Erderly.*** LUCRARI STIINTIFICE - UNIVERSITATEA AGRONOMICA SI DE MEDICINA VETERINARA "ION IONESCU DE LA BRAD" IASI. SERIA HORTICULTURA. vol. TOM XLVIII, v.2-2005, pp. 179-186 ISSN: 1454-7376.
20. MATURO A. (2004). ***Conditional Subjective Prevision and Probability by a Geometric Point of View.*** LUCRARI STIINTIFICE - UNIVERSITATEA AGRONOMICA SI DE MEDICINA VETERINARA "ION IONESCU DE LA BRAD" IASI. SERIA HORTICULTURA. vol. tOM XLVII, v.2-2004, pp. 187-200 ISSN: 1454-7376.
21. MATURO A., TOFAN I. (2004). ***Similitude Relations and Applications in Social Sciences.*** FUZZY SYSTEMS AND A.I. REPORTS AND LETTERS. pp. 183-190 ISSN: 1016-2127.

22. MATURO A., TOFAN I, VENTRE A. (2004). ***Fuzzy Games and Coherent Fuzzy Previsions.*** FUZZY SYSTEMS AND A.I. REPORTS AND LETTERS. vol. 10, pp. 109-116 ISSN: 1016-2127.
23. MATURO A., (2004). ***Grandezze aleatorie fuzzy e loro previsioni per le decisioni in condizione di informazione parziale,*** in Current Topics in Computer Sciences, Cortellini and Luchian Ed., Panfilus, Iasi, pp. 15-24. ISBN: 973-85195-0-0.
24. MATURO A., FERRI B. (2004). ***Un modello matematico decisionale fuzzy per la valutazione di fattibilità nel recupero del patrimonio storico architettonico.*** In: EDITORS FRANCHINO R., MATURO A., VENTRE A., VIOLANO A. Strategie, processi e modelli decisionali per la gestione dell'ambiente. (pp. 236-278). ISBN: 88-88171-53-3. TRIESTE: Edizioni Goliardiche (ITALY).
25. MATURO A., FERRI B. (2004). ***Algoritmi per l'organizzazione di una politica di assistenza sostenibile per gli anziani,*** in Current Topics in Computer Sciences, Cortellini and Luchian Ed., Panfilus, Iasi, pp. 79-88. ISBN: 973-85195-0-0.
26. MATURO A., SANSEVIERO S. (2004). ***Un modello Matematico per un Processo Valutativo e Decisionale Complesso.*** In: EDITORS FRANCHINO R., MATURO A., VENTRE A., VIOLANO A. Strategie, processi e modelli decisionali per la gestione dell'ambiente. (pp. 228-237). ISBN: 88-88171-53-3. TRIESTE: Edizioni Goliardiche (ITALY).
27. MATURO A. (2003). ***On the conditional prevision of Bruno de Finetti and its applications.*** 6° Workshop on Uncertainty Processing, Hejnice, September 24-27. September 24-27, 2003. (pp. 187-198).
28. MATURO A., (2003), ***Cooperative games, Finite Geometries and Hyperstructures,*** Ratio Matematica 14, 2003, pp.57-70. ISSN 1592-7415
29. MATURO A., (2003), ***Sull'assiomatica di Bruno de Finetti per la previsione e la probabilità coerenti: analisi critica e nuove prospettive,*** Periodico di Matematiche, Serie VIII, Vol 3, n. 1, 41-54. ISSN: 1582-8832
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33. MATURO A., TOFAN I. (2001). ***Iperstrutture, strutture fuzzy ed applicazioni.*** (pp. 168). ISBN: 88-495-0317-2. Pubblicazione Progetto Internazionale Socrates-Erasmus Italia-Romania. SAN SALVO (CH): Dierre Edizioni (ITALY).
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35. MATURO A., EUGENI F. (2001). ***Enciphering and Authentication Systems.*** In: AUTORI VARI. Advances in Generalized Structures, Approssimate Reasoning and Applications. (pp. 3-12). ISBN: 973-8075-14-9. IASI: Performantica Press (ROMANIA).
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37. MATURO A. (2000). ***On a non-standard algebraic hyperstructure and its applications to the coherent probability assessments.*** ITALIAN JOURNAL OF PURE AND APPLIED MATHEMATICS. vol. 7, pp. 33-50 ISSN: 1126-8042.
38. MATURO A. (2000). ***Fuzzy events and their probability assessments,*** Journal of Discrete Mathematical Sciences & Cryptography, Vol. 3, Nos 1-3, 83-94.