

GEORGE MENGGOV

Professor of Decision Science and IT Management
Faculty of Economics and Business Administration
Sofia University St. Kliment Ohridski
125 Tzarigradsko Chaussee Blvd., Bl. 3
1113 Sofia, Bulgaria
(359) 889718070
g.mengov@feb.uni-sofia.bg

Born 1966, Sofia, Bulgaria.

Education

- 1994 – 2001 Ph.D. in Cybernetics, Technical University of Sofia
Thesis: *Neural networks for analysis and prediction in organizational behaviour: A study with empirical data from the industry*
- 1986 – 1991 M.Sc., Electrical Engineering (Electronics), Technical University of Sofia
- 1984 – 1986 Military Service
- 1979 – 1984 First English Language High School, Sofia
- 1972 – 1979 Primary and Secondary School No 125, Sofia

Languages

English (Bilingual), Russian (Fluent), German (Professional proficiency),
Bulgarian (Native)

Work Experience

- 2016 – Present Professor of Decision Science and IT Management
Department of Industrial Economics and Management
Faculty of Economics and Business Administration
Sofia University St. Kliment Ohridski
- 2015 – Present Head of the Centre for Modelling Socioeconomic Systems,
Sofia University St. Kliment Ohridski
- 2010 – 2016 Associate Professor
Department of Industrial Economics and Management (2014–2016)
Department of Statistics and Econometrics (2010–2014)
Faculty of Economics and Business Administration
Sofia University St. Kliment Ohridski
- 2005 – 2010 Assistant Professor
Department of Statistics and Econometrics
Faculty of Economics and Business Administration
Sofia University St. Kliment Ohridski
- 2002 – 2005 Affiliated Lecturer
Faculty of Economics and Business Administration
Sofia University St. Kliment Ohridski

2001 – 2004	Research Associate Prof. Ivan Daskalov Centre of Biomedical Engineering Bulgarian Academy of Sciences
1995 – 2000	Information Services Consultant Unisys Corporation Worked as business processes analyst; assistant to a senior manager, responsible for restructuring the European Division of the Corporation; software developer; software tester. <i>Projects:</i> <ul style="list-style-type: none"> • Coutts & Co. Global Customer Management Information System, City of London, UK, 1999 • The Isle of Man Land Registry System, Leeds, UK, 1998 • Unisys EAD Restructuring, Uxbridge, London, UK, 1996 • Savings Bank of the Russian Federation, St. Petersburg, Russia, 1995 • A number of projects for off-shore software development for Unisys Corporation, Unisys Bulgaria, 1996 – 1999
1994 – 1998	Affiliated Researcher Dutch-Bulgarian-Hungarian COPERNICUS EU research project on work motivation and quality of working life.
1993 – 1994	Coordinator Dutch-Bulgarian project for consulting Bulgarian small and medium-sized enterprises sponsored by the Dutch Government, Sofia
1991 – 1992	Free-lance interpreter, English & Bulgarian, Sofia

Invited Lectures

Paris V Descartes University for Science and Technology, Paris, France, December 2015.

John Atanasoff Society of Automation and Informatics, Sofia, Bulgaria, November 2015.

European Researchers' Night, City of Vratsa, Bulgaria, September 2014.

Academic Speech in the Aula of Sofia University St. Kliment Ohridski, May 24th, 2014.

Anhalt University of Science and Technology, Bernburg, Germany, June 2013.

Max Planck Institute of Economics in Jena and University of Jena, Germany, January 2010.

Justus Liebig University, Giessen, Germany, February 2009.

Courses Taught

2015 – Present	<i>Advanced Statistics for Social Scientists (Doctoral Level)</i> , Sofia University
2012 – Present	<i>Management of Software Projects and IT Companies</i> , Sofia University
2006 – Present	<i>Economic Agents' Decision Making</i> , Sofia University
2002 – Present	<i>Decision Making under Risk and Uncertainty</i> , Sofia University
2010 – 2016	<i>Risk Management</i> , Sofia University

- 2004 – 2008 *Informatics Seminars*, Sofia University
- 1998 – 1999 *Organization Development Seminars*, Sofia University
- 1996 – 1997 *Quantitative Methods in Management and Marketing*, TU Sofia

Doctoral Dissertations Supervised

Anton A. Gerunov, 2015. Dissertation Title: *Macroeconomic dynamics under heterogeneous expectations*. Department of Economics, Faculty of Economics and Business Administration, Sofia University St. Kliment Ohridski.

Momchil H. Kiryakov, 2015. Dissertation Title: *Personal and professional aspects of the participation in virtual social networks*. Department of Psychology, Faculty of Philosophy, Sofia University St. Kliment Ohridski.

Professional Service

- 2013 – Present Associate Editor, *International Journal of Neural Networks and Advanced Applications*, North Atlantic University Union, Oregon, USA
- 2013 – Present Member of the Editorial Board, *Automation & Informatics*, John Atanasoff Society of Automation and Informatics, Sofia, Bulgaria
- 2017 Program Committee Member, International Joint Conference on Neural Networks (IJCNN 2017), May 14–19, Anchorage, Alaska, USA
- 2015 Program Committee Member, International Joint Conference on Neural Networks (IJCNN 2015), July 12-17, Killarney, Ireland
- 2013 Program Committee Member, International Joint Conference on Neural Networks (IJCNN 2013), August 4-9, Dallas, Texas, USA
- 2013 Program Committee Member, 23rd International Conference on Artificial Neural Networks (ICANN 2013), September 10-13, Sofia, Bulgaria
- 2009 – Present Member of the faculty commission awarding research grants, Faculty of Economics and Business Administration, Sofia University
- 2011 Member of the faculty task force for promotion of the Faculty of Economics and Business Administration of Sofia University among the top 100 Bulgarian high schools
- 2011 – 2012 Member of the faculty commission for theses defenses in the joint masters program *Financial Management* of Sofia University and Université Montesquieu Bordeaux IV
- 2010 – Present Member of the faculty commission for theses defenses in the masters programs *Actuarial Science and Risk Management*, *Management Information Systems*, and *Industrial Economics and Management* of Sofia University
- 2010 – Present Reviewer for *International Journal of Data Science*, *Automation & Informatics*, *Proceedings of the Bulgarian Academy of Sciences (Comptes Rendus)*, etc.

- 2005 – 2010 Member of the organizing committees of the annual doctoral summer schools of the Faculty of Economics and Business Administration
- 2007 – 2008 Member of the organizing committees of the two joint conferences in economics between the Faculty of Economics and Business Administration of Sofia University and the American University in Bulgaria
- 2006 – 2009 Scientific Secretary of the Department of Statistics and econometrics; Organized a number of research seminars in the department.

Publications

Books

Mengov, G. (2015) *Decision Science: A Human Oriented Perspective*. Springer–Verlag: Berlin Heidelberg.

Vatchkov, G., Dotchev, S., Kovatchka-Dimitrova, M., Mengov, G., Spassov, B., Toslev, F., Tziklovsky, R. (2016) *Study Guide in Management of Software Projects and IT Companies*. Sofia University Press: Sofia. [In Bulgarian].

Mengov, G. (2010) *Decision Making under Risk and Uncertainty*. Janet 45: Plovdiv. [In Bulgarian].

Mengov, G. (2009) *Lecture Notes in Decision Making*. Sofia: Faculty of Economics and Business Administration. [In Bulgarian].

Journal Articles

Mengov, G. (2016) The road to socioeconomic fractality. *Bulgarian Economic Papers*, BEP-05-2016, ISSN: 2367-7082.

Mengov, G. (2015) Ideas for Neurocomputational Social Science. *Elsevier IFAC-PapersOnLine*, 48 (24), 219-224.

Mengov, G. (2014) Person-by-person prediction of intuitive economic choice. *Neural Networks*, 60, 232-245.

Mengov, G. (2013) Stochastic calibration of a neurocomputational model for economic decision-making. *Proceedings of the Bulgarian Academy of Sciences (Comptes Rendus)*, 66 (5), 739-748.

Mengov, G. and Georgiev, N. (2013) Econometric vs. ARTMAP prediction of economic choice. *Proceedings of the Bulgarian Academy of Sciences (Comptes Rendus)*, 66 (3), 415-422.

Mengov, G. (2010) Neurobiology and decision making: An intriguing rendezvous? *Information Technologies and Control*, 8 (2), 6-11.

Egbert, H. and Mengov, G. (2009) Satisfaction and disappointment in consumer choices – an experiment. *Psychological Investigations*, 4-2009, 71-80.

Mengov, G., Egbert, H., Pulov, S., and Georgiev, K. (2008) Affective balances in experimental consumer choices. *Neural Networks*, 21 (9), 1213-1219.

Mengov, G. and Nikolova S. (2008) Utility function derived from affective balance theory. *Proceedings of the Bulgarian Academy of Sciences (Comptes Rendus)*, 61 (12), 1605-1612.

Mengov, G., Georgiev, K., Pulov, S., Trifonov, T., and Atanasov, K. (2006) Fast computation of a gated dipole field. *Neural Networks*, 19, 1636-1647.

Trifonov, T., Georgiev, K., and Mengov, G. (2008) Interactions in an ART neural system. *Advanced Studies in Contemporary Mathematics*, 16 (1), 105-114.

Georgiev, K., Trifonov, T., and Mengov, G. (2005) Efficient orienting subsystem in an adaptive resonance theory (ART) neural network. *Proceedings of the Bulgarian Academy of Sciences (Comptes Rendus)*, 56 (5), 531-536.

Mengov, G. (2005) Analytical solution of the resonance in an adaptive resonance theory (ART) neural system. *Advanced Studies in Contemporary Mathematics*, 10 (1), 45-52.

Mengov, G., Pulov, S., Atanasov, K., Georgiev, K., and Trifonov, T. (2003) Modelling neural signals with a generalized net. *Advanced Studies in Contemporary Mathematics*, 7 (2), 155-166.

Mengov, G., Hadjitodorov, S., and Aarons, A. (2003) Prediction of serum tobramycin in patients with NONMEM and simulated annealing. *Proceedings of the Bulgarian Academy of Sciences (Comptes Rendus)*, 56 (5), 47-50.

Mengov, G. D., Zinovieva, I. L., and Sotirov, G. (1999) Modeling work motivation with a Fusion ARTMAP neural network. *International Journal of Computing Anticipatory Systems*, 3, (2), 85-99.

Journal Articles in Bulgarian

Shtetinska, A., Zinovieva, I., and Mengov, G. (2016) Work motivation of the Bulgarian IT experts – ten years later. *Automation and Informatics*, 49 (2), 43-46.

Mengov, G., Zinovieva, I., Karaivanova, M., and Paunova-Markova, E. (2016) Attitudes toward information sharing in a virtual economic network. *Psychological Investigations* [Forthcoming].

Mengov, G., Zinovieva, I., Paunova-Markova, E., and Karaivanova, M. (2016) Perceptions of success in economic decision making. *Psychological Investigations* [Forthcoming].

Mengov, G., Zinovieva, I., and Shtetinska, A. (2015) The work motivation of software developers and IT support professionals. *Industrial Management*, 12 (2), 61-70.

Mengov, G. (2014) Rationality and intuition in human decision making. *Strategies for Policy in Science and Education*, 22 (3), 275-282.

Mengov, G. (2013) Social fractality. *Technosphere*, 3(21), 25-36.

Georgiev, N. and Mengov, G. (2013) Consumer satisfaction in experimental setting. *Yearbook of the Faculty of Economics and Business Administration of Sofia University St. Kliment Ohridski*, vol. 11, 97-111.

Mengov, G. (2009) Stochastic approximation in support of the Received View. *Machine Building and Machine Science: Economics and Management Series*, 4 (3), 77-81.

Mengov, G. (2009) Objective probability and expert belief. *Machine Building and Machine Science: Economics and Management Series*, 4 (3), 44-48.

Totkov, A. and Mengov, G. (2009) Personal attitudes towards investment risks. *Automation and Informatics*, 2, 53-57.

- Mengov, G. and Nikolova S. (2009) The economic agents' utility functions. *Yearbook of the Faculty of Economics and Business Administration of Sofia University St. Kliment Ohridski*, vol. 8, 149-166.
- Mengov, G. and Todorova, O. (2009) Managerial experience and negative affect in a hypothetical choice of a manager. *Yearbook of the Faculty of Economics and Business Administration of Sofia University St. Kliment Ohridski*, vol. 8, 167-178.
- Mengov, G. (2007) Subjective judgments based on small samples. *Automation and Informatics*, 41 (4), 36-40.
- Mengov, G. and Mintova, D. (2006) Rationality in investment decisions. *Automation and Informatics*, 40 (4), 38-40, 48.
- Mengov, G., and Gerganov, E. (2004) Decision making under risk and uncertainty: I. Theoretical review. *Psychological Investigations*, 3-2004, 63-75.
- Hristova, E., Mengov, G., and Gerganov, E. (2005) Decision making under risk and uncertainty: II Empirical study of Bulgarian economists and IT experts. *Psychological Investigations*, 1-2005, 5-20.
- Mengov, G., Zinovieva, I., and Stoikova, V. (2005) Attitudes of the Bulgarian IT experts and economists towards their employer. *Automation and Informatics*, 39 (2), 66-69.
- Mengov, G. and Hristova, E. (2004) The human factor in decisions under risk in industrial systems. *Automation and Informatics*, 38 (2), 11-13.
- Mengov, G. and Sotirov, G. (2001) Neural networks for analysis of organizational behaviour in industrial systems: I. MLP. *Automation and Informatics*, 35 (3/4), 37-40.
- Mengov, G. and Sotirov, G. (2001) Neural networks for analysis of organizational behaviour in industrial systems: II. ARTMAP. *Automation and Informatics*, 35 (5/6), 25-29.

Book Chapters

- Mengov, G. (2013) The intuitive-emotional economic agent. *Sofia University St. Kliment Ohridski Research Excellence 2008-2013*, pp. 35-37. Sofia: Sofia University Press.

Selected Conference Papers

- Mengov, G. (2016) Economic Behaviour in a Virtual Social Network. *Abstract Proceedings of the 19th International Joint Conference "Economic Challenges: Migration, Globalization, Sustainability Policies"*, Sofia, 21-22.10.2016.
- Mengov, G. (2015) Ideas for Neurocomputational Social Science. *Abstract Proceedings of the 16th IFAC Conference on technology, Culture, and International Stability*, Sozopol, 89.
- Zinovieva, I., Kiryakov, M., and Mengov, G. (2013) How personal characteristics and social network participation influence economic choice. *Abstract Proceedings of the 16th EAWOP Congress*, Munster, 883.
- Mengov, G. and Egbert, H. (2009) The benefit from computational neuroscience for economic psychology. *Conference Papers Abstracts & Authors, South-East European Conference of Psychology – Sofia, 30.10 – 1.11. 2009*, p. 121.
- Mengov, G. (2009) Levels of decision analysis. *Proceedings of the UAI International Conference of Automatics and Informatics, Sofia, Bulgaria, 29.09 - 2.10. 2009*, V, 25-27.

Mengov, G., Egbert, H., Pulov. S., and Georgiev, K. (2007) The role of disappointment and satisfaction in consumer decisions. *Abstract Book of the 10th Annual Conference of FEBA*, Sofia, 5-7 October 2007, p. 20.

Mengov, G. (2007) Introducing new instruments into science: An example from experimental economics. *Tutorial presented at the second summer school for doctoral students*, June 2007, Faculty of Economics and Business Administration, forthcoming.

Mengov, G., Hadjitodorov, S., and Shannon, A. (2001) Modeling Cognitive Brain Processes with a Generalized Net. *Proceedings of the Second International Workshop on Generalized Nets*, Sofia, June '01, vol. 1, 59-61.

Mengov, G. D., Zinovieva, I. L., and Sotirov, G. (2000) Patterns of Work Attitudes: A Neural Network Approach. In Dubois, D., (Ed.), *Proceedings of the Third International Conference on Computing Anticipatory Systems CASYS'99*, Liege, Belgium, American Institute of Physics, Melville, New York, pp. 221-229.

Mengov, G., Zinovieva, I. L., and Sotirov, G. (1998) Predicting work-related psychological variables with a Fuzzy ARTMAP neural network. In Trapp, R. (Ed.), *Proceedings of the Fourteenth European Meeting on Cybernetics and Systems Research (EMCSR '98)*, Austrian Society for Cybernetic Studies, Vienna, vol. 2, 610 – 615.

Mengov, G. (1995) Bulgaria – Country Profile Autumn 1995. Report, *Project Work motivation and quality of working life, COPERNICUS CIPA-CT93-0259*.

Mengov, G. (1994) Bulgaria – Country Profile Spring 1994. Report, *Project Work motivation and quality of working life, COPERNICUS CIPA-CT93-0256*.

Selected Grants

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| 2012 – 2015 | Grant for a decision science project from the Doctoral Academy for Economic and Management Science (BG051PO001-3.3.06-0012), Sofia University. |
| 2013 – 2015 | Grant for development of academic courses at Sofia University (BG051PO001-3.1.07-0027). |
| 2009 | Sofia University Research Grant (SU231/2009). Visited the Department of Cognitive and Neural Systems, and the Center for Adaptive Systems at Boston University, Boston, Massachusetts. |

Professional Affiliations (Past and Present)

IEEE, International Neural Networks Society, John Atanasoff Society of Automation and Informatics