

# GEORGE MENGGOV

Associate Professor  
Faculty of Economics and Business Administration  
Sofia University St. Kliment Ohridski  
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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., Technical University of Sofia
- 1984 – 1986      Military Service
- 1979 – 1984      First English Language High School, Sofia

## Languages

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

## Work Experience

- 2014 – Present      Associate Professor  
Department of Industrial Economics and Management  
Faculty of Economics and Business Administration  
Sofia University St. Kliment Ohridski
- 2010 – 2014      Associate Professor  
Department of Statistics and Econometrics  
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 – 2005      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.  
*Projects:*
- 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
- 1993 – 1994 Coordinator  
Dutch-Bulgarian project for consulting Bulgarian small and medium-sized enterprises sponsored by the Dutch Government, Sofia
- 1994 – 1998 Affiliated Researcher  
Dutch-Bulgarian-Hungarian COPERNICUS EU research project on work motivation and quality of working life
- 1991 – 1993 Free-lance interpreter, English & Bulgarian, Sofia

### **Invited Lectures**

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

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

Justus Liebig University - Giessen, Research Colloquium of the Department of Economics, Giessen, Germany; Doctoral Seminar, February 2009

### **Courses Taught**

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

### **Dissertations Supervised as Advisor or Co-Advisor**

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**

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|----------------|--|
| 2013 – Present | Associate Editor, <i>International Journal of Neural Networks and Advanced Applications</i> (North Atlantic University Union)  |
| 2013 – Present | Member of the Editorial Board, <i>Automation &amp; Informatics</i> (John Atanasoff Society of Automation and Informatics, Sofia, Bulgaria)   |
| 2015           | Programme Committee Member, International Joint Conference on Neural Networks (IJCNN 2015), July 12-17, Killarney, Ireland   |
| 2013           | Programme Committee Member, International Joint Conference on Neural Networks (IJCNN 2013), August 4-9, Dallas, Texas  |
| 2013           | Programme Committee Member, 23rd International Conference on Artificial Neural Networks (ICANN 2013), September 10-13, Sofia, Bulgaria   |
| 2011 – Present | Member of Doctoral Dissertation Committees at Sofia University, Technical University – Sofia, and New Bulgarian University   |
| 2011 – Present | Member of Habilitation Committees at Sofia University  |
| 2009 – 2015    | Member of the faculty commission awarding research grants, Faculty of Economics and Business Administration, Sofia University  |
| 2014 – Present | Member of the faculty commission for theses defenses in the masters programme <i>Industrial Economics and Management</i> of Sofia University   |
| 2011 – 2012    | Member of the faculty commission for theses defenses in the joint masters programme <i>Financial Management</i> of Sofia University and Université Montesquieu Bordeaux IV                             |
| 2010 – 2014    | Member of the faculty commission for theses defenses in the masters programmes <i>Actuarial Science and Risk Management</i> , and <i>Management Information Systems</i> of Sofia University            |
| 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  |

## Publications

### Books

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

Mengov, G. (2014) *Study Guide in Management of Software Projects and IT Companies*. Sofia: Faculty of Economics and Business Administration. [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. (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 Atanassov, 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., Atanassov, 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* [Forthcoming].

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

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

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

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. (2015) Ideas for Neurocomputational Social Science. *Abstract Proceedings of the 16<sup>th</sup> 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 16<sup>th</sup> 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 Trappl, 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**

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 Grants 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