

CURRICULUM VITAE

Ehtibar Dzhafarov

February 2024

Present status

Professor Emeritus of Psychological Sciences, Purdue University.

Correspondence

Ehtibar N. Dzhafarov, Department of Psychological Sciences, Purdue University, 703 Third Street, West Lafayette, IN 47907-2081

e-mail: ehtibar@purdue.edu

<http://www.psych.purdue.edu/~ehtibar/>

Professional Experience

2023 – present: Professor Emeritus of Psychological Sciences, Purdue University

2009: Fellow, Swedish Collegium for Advanced Studies, Uppsala, Sweden.

2003 – 2004: Fellow, Swedish Collegium for Advanced Studies in Social Sciences, Uppsala, Sweden.

2000 – 2023: Professor of Psychological Sciences, Department of Psychological Sciences, Purdue University.

1998 - 2000: Associate Professor, Department of Psychological Sciences, Purdue University.

1997 - 1998: Fellow, Hanse Wissenschaftskolleg (Institute for Advanced Studies), Delmenhorst, Germany.

1993 - 1998: Associate Professor, Beckman Institute for Advanced Science and Technology, Champaign, Illinois, USA.

1993 - 1998: Associate Professor, Department of Psychology, University of Illinois at Urbana-Champaign, Champaign, Illinois, USA.

1990 - 1993: Assistant Professor, The Beckman Institute for Advanced Science and Technology, Champaign, Illinois, USA.

1988 - 1993: Assistant Professor, Department of Psychology, University of Illinois at Urbana-Champaign, Champaign, Illinois, USA.

1987 - 1988: Visiting Assistant Professor, Department of Psychology, University of Illinois at Urbana-Champaign, Champaign, Illinois, USA.

1986 - 1987: Research Scientist, Department of Psychology, Free University of Amsterdam, Amsterdam, The Netherlands.

1984 - 1985: Mathematical Consultant, Biomathematical Computer Center, Czechoslovak Academy of Sciences, Prague, Czechoslovakia.

1982 - 1984: Research Scientist at the Laboratory of Psychophysiology, Institute of Physiology, Czechoslovak Academy of Sciences, Prague, Czechoslovakia.

1981 - 1982: Research Scientist at the Laboratory of Psychophysics, Institute of Psychology, Academy of Sciences of USSR, Moscow, USSR.

1979 - 1981: Assistant Professor and Research Scientist, Department of Psychology, Moscow State University, Moscow, USSR.

Educational Background

1979: PhD degree in psychology, Moscow State University, Moscow, USSR. PhD dissertation: Elementary constituents of visual percept.

1975: BS degree in psychology, Moscow State University, Moscow, USSR. BS Thesis: Reaction time to the presence/absence of apparent motion under two-flash stimulation condition.

Editorship and Panels

2024: Guest editor (with S. Abramsky, A. Cabello, and P. Kurzynski) of the special issue of the Philosophical Transactions of the Royal Society A: Quantum contextuality, causality, and freedom of choice (issue 382).

2021 - present: Editorial panel of Entropy, Multidisciplinary Applications Section.

2019: Guest editor (with S. Abramsky, A. Cabello, and P. Kurzynski) of the special issue of the Philosophical Transactions of the Royal Society A: Contextuality and Probability in Quantum Mechanics and Beyond (issue 377).

2017: Guest editor (with E. Haven, A. Khrennikov, and S. Sozzo) of the special issue of the Journal of Mathematical Psychology: Quantum Probability and Contextuality in Psychology and Economics (volume 78, pp. 1-106).

2015: Guest editor (with J.V. Kujala and R. Suck) of the special issue of the Journal of Mathematical Psychology: Foundations of Probability Theory in Psychology and Beyond (volume 74, pp. 1-146).

2013 - 2023: co-editor (with W. Batchelder and Hans Colonius) of The New Handbook of Mathematical Psychology, published by Cambridge University Press.

2008: NSF panel for Human and Social Dynamics/Dynamics of Human Behavior Program

2000 - present: co-editor (with H. Colonius) of the book series Advanced Series on Mathematical Psychology, published by World Scientific.

1999 - 2003: associate editor of Psychometrika.

1995 - 2023: associate editor of Journal of Mathematical Psychology

Research Areas

Mathematical psychology (general)

Probabilistic contextuality across sciences and foundations of probability

Theory of selective influences on random outputs

Subjective topology and geometry of stimulus spaces derived from discrimination functions

Sorites “paradox”

Abstract psychophysics of detection, discrimination, and recognition

Response time (RT) analysis: RT modeling, RT decompositions, processing time architectures

Theory of measurement, dimensional analysis in psychology and physics

Analysis of choice, dominance, and performance matrices: double skew-dual scaling and its extensions

Visual kinematics: visual transformations of moving objects (geometric, temporal, and brightness transformations) and relationships between perceived space, time, and motion

Visual motion perception: detection of and reaction time to motion onset and motion changes, discrimination of motion states, selective adaptation to motion

Direction identification in random kinematograms and chord sequences

Honors and Awards

Membership at the Foundational Questions Institute (FQXi) (2021 -).

Fellowship at Swedish Collegium for Advanced Studies, Uppsala, Sweden (2009).

Journal of Mathematical Psychology Outstanding Paper Award for the years 2001-2003 (2004).

Fellowship at Swedish Collegium for Advanced Studies in Social Sciences, Uppsala, Sweden (2003-2004).

Alexander von Humboldt Research Award for senior scientists (2003-2004).

Fellowship at Hanse Wissenschaftskolleg (Institute for Advanced Studies), Delmenhorst, Germany (1997 - 1998).

H.C. Petit Distinguished Professorship (1994, University of Illinois at Urbana-Champaign).

Financial Support

Contextuality, (in)determinism, and free will. FQxI Mini-grant 2022-23 (\$3,025).

Purdue Research Refresh grant 2020-21 (\$59,843).

Parametric Assumptions and Model Falsifiability. Air Force Office of Scientific Research grant, 2014 (\$627,692 for 4 years, co-PI, with Matt Jones as PI).

Alexander von Humboldt Research Award, 2015 (Euros 17330).

Selective Probabilistic Causality As Interdisciplinary Methodology. National Science Foundation grant, 2012 (\$200,000 for 3 years; with Janne Kujala and Jerome Busemeyer as co-PIs).

Causal networks with selectively influenced components. Air Force Office of Scientific Research grant, 2009 (\$598,469 for 3 years, coequal PI with Richard Schweickert; with Janne Kujala as co-PI; supplemental funding \$75,000).

Fechnerian scaling: Metric from discriminability. National Science Foundation Grant, 2006 (\$250,000 for 3 years, co-PI Hans Colonius).

Regular Minimality principle in relation to decision making and categorization. Air Force Office of Scientific Research grant, 2006 (\$311,076 for 05/01/2006-11/30/2008, co-PIs Hans Colonius and Adele Diederich; extended until 11/30/2009 with supplementary \$90,494).

Fechnerian scaling: Metric from discriminability. National Science Foundation Grant, 2003 (\$215,000 for 3 years). Alexander von Humboldt Research Award, 2003-2004 (Euros 60,000).

Multidimensional Fechnerian Scaling: Metric from Discriminability (jointly with H. Colonius). Alexander von Humboldt Foundation Grant, 2001 (DM 53,700 for 3 years).

Fechnerian scaling: Metric from discriminability. National Science Foundation Grant, 2000 (\$210,000 for 3 years).

Subjective metrics in stimulus spaces. Purdue Research Foundation Summer Research Grant, 1999 (\$5,000).

H.C. Petit Distinguished Professorship Award, 1994 (\$10,000).

Project using an X-Y light galvanometer in experiments on apparent space transformations in motion. The Beckman Institute for Advanced Science and Technology Equipment Grant, 1992 (\$6,145).

Visual motion detection in fronto-parallel plane. University of Illinois Research Board Grant, 1989 (\$25,264).

Participation in Professional Societies

2021 - present: Member, Foundational Questions Institute (FQxI).

2003 - present: Member, Alexander von Humboldt Society.

1999 - present: Member, International Society for Psychophysics.

1987 - present: Member, Society for Mathematical Psychology.

2005 - 2007: Member, Executive Committee of the International Society for Psychophysics.

1995 - 2001: Member, Executive Committee of the Society for Mathematical Psychology.

1999 - 2000: Vice-President of the Society for Mathematical Psychology.

1998 - 1999: President of the Society for Mathematical Psychology.

Organization of Symposia, Workshops, and Conferences

Workshop Quantum Contextuality in Quantum Mechanics and Beyond (December 2022) in Prague, Czech Republic (with Samson Abramsky, Adan Cabello, Pawel Kurzynski, Víctor Cervantes).

Virtual colloquium Quantum Contextuality in Quantum Mechanics and Beyond (October 2020 —) (with Samson Abramsky, Adan Cabello, Pawel Kurzynski).

Virtual workshop Quantum Contextuality in Quantum Mechanics and Beyond (May 2021) (with Victor Cervantes, Samson Abramsky, Adan Cabello, Pawel Kurzynski).

Workshop Quantum Contextuality in Quantum Mechanics and Beyond (May 2019) in Prague, Czech Republic (with Samson Abramsky, Adan Cabello, Pawel Kurzynski).

Probability and Contextuality (2018, November). Purdue Winer Memorial Lectures, at Purdue University (with Victor Cervantes and Maria Kon).

Workshop Quantum Contextuality in Quantum Mechanics and Beyond (May 2018) in Prague, Czech Republic (with Samson Abramsky, Adan Cabello, Andrei Khrennikov, Pawel Kurzynski).

Symposium “Quantum contextuality” at Foundations of Quantum Mechanics and Technology (June 2017) in Växjö, Sweden (with Adan Cabello).

Workshop Quantum Contextuality in Quantum Mechanics and Beyond (June 2017) in Prague, Czech Republic (with Samson Abramsky, Acacio deBarros, Adan Cabello, Pawel Kurzynski).

Meeting of the European Mathematical Psychology Group, in Copenhagen, Denmark (June, 2016) (with Matthias Gondan, Steven Blurton, Michel Regenwetter, Jürgen Heller, Hans Colonius, Luca Stefanutti).

In memoriam Patrick Suppes (September 2015). Meeting of the European Mathematical Psychology Group, in Padova, Italy (with James Townsend).

Special Session “Quantum like models in economics and psychology” at Quantum Theory: from Foundations to Technologies (June 2015) in Växjö, Sweden (with Emmanuel Haven, Andrei Khrennikov, Sandro Sozzo).

Quantum Probability and the Mathematical Modeling of Decision Making (2015, March). Fields Institute, Toronto, Canada (with Jerome Busemeyer, Emmanuel Haven, Andrei Khrennikov, Arkady Plotnitsky, Emmanuel Pothos)

Contextuality From Physics to Psychology (2014, November). Purdue Winer Memorial Lectures, at Purdue University (with Scott Jordan and Ru Zhang).

Applications of Distances in Behavioral and Life Sciences (2012, July). International Conference on Mathematics of Distances and Applications in Varna, Bulgaria.

Applied Significance of Foundations of Probability (2011, July). Meeting of the Society for Mathematical Psychology in Medford, Massachusetts.

Normative and Descriptive Models of Behavior (2010, October). Purdue Winer Memorial Lectures, at Purdue University (with Lacey Perry).

Matching Regularity and Fechnerian Scaling (2010, October). Meeting of the International Society for Psychophysics, in Padua, Italy.

Perceptual Discrimination (2008, July). Meeting of the International Society for Psychophysics, in Toronto, Canada. Selective Influence (2008, July). Meeting of the Society for Mathematical Psychology in Washington, DC.

Mathematical Psychology as Applied Mathematics (2007, November). Purdue Winer Memorial Lectures, at Purdue University (with Oh-Sang Kwon).

Mathematical Theories of Perceptual Discrimination (2006, September). Meeting of the European Mathematical Psychology Group, in Brest, France (with Hans Colonius).

Measurement in Perception (2005, October). Meeting of the International Society for Psychophysics, in Traverse City, Michigan.

Theory and Applications of Fechnerian Scaling (2005, September). Workshop at European Mathematical Psychology Group Meeting, in Padua, Italy (with Hans Colonius).

Applications of Measurement Theory to Psychophysics (2005, August). Meeting of the Society for Mathematical Psychology (Memphis, Tennessee).

New Developments in Multidimensional Metric Representations (2003, August). Meeting of the European Mathematical Psychology Group, in Madrid, Spain (with Hans Colonius).

Purdue Winer Memorial Lectures, at Purdue University (November 2002, with Justin MacDonald). Conference on mathematical psychology, at Purdue University (2001, November).

Measurement of Sensation: The State of the Art (2001, October). Meeting of the International Society for Psychophysics, in Leipzig, Germany (with Hans Colonius).

Fechnerian scaling: Subjective metrics derived from discriminability measures (1999, October). Meeting of the International Society for Psychophysics, in Tempe, Arizona.

Subjective metrics in stimulus spaces (1998, August). Meeting of the Society for Mathematical Psychology, in Nashville, Tennessee (with Douglas C. Creelman).

Selective influence in the analysis of mental architectures (1997, August). Meeting of the Society for Mathematical Psychology, in Bloomington, Indiana (with Robin Thomas).

Invited Conference Presentations

Dzhafarov, E.N. (2022, August). A general proof that context-independent mapping (or local causality) and free choice are equivalent. Frontiers of Quantum and Mesoscopic Thermodynamics (Prague, Czech Republic).

Dzhafarov, E.N. (2021, July). Quantum contextuality: Most general definition? Frontiers of Quantum and Mesoscopic Thermodynamics (virtual).

Dzhafarov, E.N. (2019, December). Cbd's view of STC. Logic and Structure in Computer Science and Beyond (Leiden, The Netherlands).

Cervantes, V.H., & Dzhafarov, E.N. (2019, July). Contextuality in human decision making. Frontiers of Quantum and Mesoscopic Thermodynamics (Prague, Czech Republic).

Dzhafarov, E.N., & Kujala, J.V. (2019, July). Measures of contextuality and noncontextuality. Frontiers of Quantum and Mesoscopic Thermodynamics (Prague, Czech Republic).

Dzhafarov, E.N., & Cervantes, V.H. (2019, June). Contextuality in human behavior. Towards Ultimate Quantum Theory (Växjö, Sweden).

Dzhafarov, E.N., & Kujala, J.V. (2019, June). Measures of contextuality and noncontextuality. Quantum Information Revolution (Växjö, Sweden).

Dzhafarov, E.N. & Cervantes, V.H. (2018, June). Behavioral Contextuality. Towards Ultimate Quantum Theory (Växjö, Sweden).

Dzhafarov, E.N. (2018, June). Contextuality Analysis. Towards Ultimate Quantum Theory (Växjö, Sweden).

Dzhafarov, E.N., Cervantes, V.H., & Kujala, J.V. (2017, June). Canonical Representations of Quantum Measurements for Contextuality Analysis. Foundations of Quantum Mechanics and Technology (Växjö, Sweden).

Dzhafarov, E.N., & Kujala, J.V. (2016, June). Quantum Contextuality Extended to Arbitrary Systems of Measurements. Quantum and Beyond (Växjö, Sweden).

Dzhafarov, E.N., & Kujala, J.V. (2015, July). Contextuality in Systems with Measurement Errors and Signaling. Frontiers of Quantum and Mesoscopic Thermodynamics (Prague, Czech Republic).

Dzhafarov, E.N., Kujala, J.V., Larsson, J.-Å., & Cervantes, V.H. (2015, June). Contextuality: An Almost General Theory. Quantum Foundations and Quantum Information (Växjö, Sweden).

Dzhafarov, E.N. (2014, June). Contextuality on top of Signaling. Quantum Foundations & Quantum Information (Växjö, Sweden).

Dzhafarov, E.N. (2013, December). Contextuality-by-Default, from Psychology to Quantum Physics. New Mathematical Approaches to Behavioral Sciences, conference organized at the Institute of Mathematical Behavioral Sciences of UCI (Irvine, California).

Dzhafarov, E.N. (2013, June). Contextuality Embedded in the Classical Probability Theory with Multiple Sample Spaces: No-Forcing and No-Matching Theorems. Quantum Foundations & Quantum Information (Växjö, Sweden).

Dzhafarov, E.N. (2013, February). All-Possible-Couplings Approach to Context and Determinism. Quantum Thinking, conference organized at the Institute of Mathematical Behavioral Sciences of UCI (Irvine, California).

Dzhafarov, E.N. (2012, July). Selective Influences and Quantum Mechanics. Workshop “Building Human Cognitive Models Using Quantum Probability and Dynamics,” organized by Jerome Busemeyer and Zheng Wang (Columbus, Ohio).

Dzhafarov, E.N. (2008, June). Foundations of Fechnerian Scaling. Training Course for senior researchers on “Theory and Methods of Measurement with Persons” (Genoa, Italy).

Dzhafarov, E.N. (2006, April). Universal Fechnerian Scaling: Computing distances from discriminability. Coombs Lectures (Ann Arbor, Michigan).

Dzhafarov, E.N. (2006, April). Same or Different? Hoosier Mental Life Meeting (Bloomington, Indiana).

Dzhafarov, E.N. (2005, October). Discrimination, dissimilarity, distance. Purdue Winer Memorial Lectures (West Lafayette, Indiana).

Dzhafarov, E.N., & Colonius, H. (2004, August). Deriving metric from discriminability: Overview of general theory. Meeting of the Society for Mathematical Biology (Ann Arbor, Michigan).

Dzhafarov, E.N. (2004, May). Purely psychological theory of Fechnerian Scaling. SCASSS Seminar 2004 (Tartu, Estonia).

Dzhafarov, E.N. (2003, October). Two fundamental properties of perceptual discrimination. Meeting of the Swedish Society for Perception (Uppsala, Sweden).

Dzhafarov, E.N. (2002, August). Two types of psychometric functions. European Mathematical Psychology Group Meeting (Bremen, Germany).

Dzhafarov, E.N. (2001, October). Fechnerian scaling and Thurstonian modeling. Invited presentation at the Meeting of the International Society for Psychophysics (Leipzig, Germany).

Dzhafarov, E.N. (2001, July). Fechnerian and Thurstonian analyses of discrimination probabilities. Invited presentation at the International Meeting of the Psychometric Society (Osaka, Japan).

Dzhafarov, E.N., & Colonius, H. (1999, October). Fechnerian metrics. Invited presentation at the Meeting of the International Society for Psychophysics (Tempe, Arizona).

Dzhafarov, E.N. (1995, August). Modeling and decomposing response times. Invited presentation at the conference in honor of R. Duncan Luce (Irvine, California).

Dzhafarov, E.N. (1994, September). Dimensional analysis, identifiable scale points, and measurement procedures. Invited presentation at the conference in honor of Herman von Helmholtz and R. Duncan Luce entitled, Foundations of Measurement: The Theory of Representability and the Nature of Numbers (Kiel, Germany).

Dzhafarov, E.N. (1993, July). Meaningfulness, measurement-dependent constants, and dimensional analysis. Invited presentation at the conference in honor of Tarow Indow entitled, Geometric Representations of Perceptual Phenomena (Irvine, California).

Dzhafarov, E.N. (1984, October). A general theory of visual motion detection. Invited presentation at the International Conference on Computational Models of Hearing and Vision (Tallin, USSR).

Dzhafarov, E.N. (1984, October). Space contraction in motion. Invited presentation at the International Conference on Computational Models of Hearing and Vision (Tallin, USSR).

Keynote Addresses

(2016, July) Quantum Interaction (San Francisco, CA).

(2014, July) European Mathematical Psychology Group Meeting (Tubingen, Germany).

(2012, July) International Conference on Mathematics of Distances and Applications (Varna, Bulgaria). (2010, September) European Mathematical Psychology Group Meeting (Jyvaskyla, Finland).

(2008, September) European Mathematical Psychology Group Meeting (Graz, Austria).

(2008, February) International Conference on Riemann-Finsler Geometry (Indianapolis, IN).

(2005, September) European Mathematical Psychology Group Meeting (Padua, Italy).

(2002, August) European Mathematical Psychology Group Meeting (Bremen, Germany).

(2002, July) Meeting of the Society for Mathematical Psychology (Oxford, Ohio).

Papers Presented at Conferences

Dzhafarov, E.N. (2023, July). Contextuality and hidden variable models. Society for Mathematical Psychology Meeting (Amsterdam, The Netherlands).

Dzhafarov, E.N. (2022, December). Free choice, causality, contextuality, and signed measures. Workshop Quantum Contextuality in Quantum Mechanics and Beyond (Prague, Czech Republic).

Dzhafarov, E.N. (2022, September). Context-Independence and Freedom of Choice are equivalent: A general proof. European Mathematical Psychology Group Meeting (Rovereto, Italy).

Dzhafarov, E.N., & Kujala, J.V., Cervantes, V.H. (2021, July). Measures of the degree of contextuality and noncontextuality. Society for Mathematical Psychology Meeting (virtual, <https://www.youtube.com/watch?v=HUHOWH7Sbug>).

Dzhafarov, E.N., & Kujala, J.V., Cervantes, V.H. (2021, May). All about cyclic systems. Workshop Quantum Contextuality in Quantum Mechanics and Beyond (virtual, <https://www.youtube.com/watch?v=dF5mugGduSk&t=1380s>).

Dzhafarov, E.N. (2020, November). Contextuality as a property of content-context systems of random variables. Colloquium Quantum Contextuality in Quantum Mechanics and Beyond (https://www.youtube.com/channel/UC0wdKy1NQsLfc-Ce__nHcw/videos).

Dzhafarov, E.N. (2020, July). Contextuality as an extension of selective influences. Society for Mathematical Psychology Meeting (virtual, <https://www.youtube.com/watch?v=4M3CQJRmrrM>).

Dzhafarov, E.N., & Kujala, J.V. (2019, July). Measures of contextuality and noncontextuality. Workshop Quantum Contextuality in Quantum Mechanics and Beyond (Prague, Czech Republic).

Dzhafarov, E.N., & Kujala, J.V. (2019, May). Measures of contextuality and noncontextuality. Workshop Quantum Contextuality in Quantum Mechanics and Beyond (Prague, Czech Republic).

Cervantes, V.H., & Dzhafarov, E.N. (2018, November). Direct influences vs contextuality in human choices. Purdue Winer Memorial Lectures (West Lafayette, Indiana).

Dzhafarov, E.N. (2018, November). Miscellaneous comments on contextuality. Purdue Winer Memorial Lectures (West Lafayette, Indiana).

Dzhafarov, E.N. (2018, May). Contextuality analysis. Workshop Quantum Contextuality in Quantum Mechanics and Beyond (Prague, Czech Republic).

Dzhafarov, E.N., Kon, M. (2018, May). On universality of classical probability with contextually labeled random variables. Workshop Quantum Contextuality in Quantum Mechanics and Beyond (Prague, Czech Republic).

Cervantes, E.N., & Dzhafarov, E.N. (2018, May). Two behavioral experiments revealing contextuality. Workshop Quantum Contextuality in Quantum Mechanics and Beyond (Prague, Czech Republic).

Dzhafarov, E.N. (2017, June). Context-dependence and contextuality. Workshop Quantum Contextuality in Quantum Mechanics and Beyond (Prague, Czech Republic).

Cervantes, V.H., & Dzhafarov, E.N. (2016, August). Exploration of contextuality in a psychophysical double-detection experiment. Society for Mathematical Psychology Meeting (New Brunswick, NJ).

Zhang, R., & Dzhafarov, E.N. (2016, August). Testing contextuality in cyclic systems of high ranks using psychophysical data. Society for Mathematical Psychology Meeting (New Brunswick, NJ).

Dzhafarov, E.N., & Kujala, J.V. (2016, August). Context-Content Systems of Random Variables: The Contextuality-by-Default Theory. Society for Mathematical Psychology Meeting (New Brunswick, NJ).

Cervantes, V.H., & Dzhafarov, E.N. (2016, July). Exploration of contextuality in a psychophysical double-detection experiment. Quantum Interaction (San Francisco, CA)

Zhang, R., & Dzhafarov, E.N. (2016, July). Testing contextuality in cyclic psychophysical systems of high ranks. Quantum Interaction (San Francisco, CA)

Dzhafarov, E.N., & Kujala, J.V. (2016, June). Quantum Contextuality Extended to Arbitrary Content-Context Systems of Random Variables. Meeting of the European Mathematical Psychology Group, (Copenhagen, Denmark).

- Dzhafarov, E.N. (2015, September). Pat Suppes's (and Mario Zanotti's) Joint Distribution Criterion. Meeting of the European Mathematical Psychology Group, (Padova, Italy).
- de Barros, J.A., Dzhafarov, E.N., Kujala, J.V., & Oas, G. (2015, July). Measuring Observable Quantum Contextuality. Quantum Interaction (Filzbach, Switzerland).
- Dzhafarov, E.N., Kujala, J.V., Larsson, J.-Å., & Cervantes, V.H. (2015, July). Contextuality-by-Default: A Brief Overview of Ideas, Concepts and Terminology. Quantum Interaction (Filzbach, Switzerland).
- Dzhafarov, E.N., Zhang, R., & Kujala, J.V. (2015, June). Is there contextuality outside physics? Quantum Foundations and Quantum Information (Växjö, Sweden).
- Dzhafarov, E.N., & Kujala, J.V. (2015, March). Contextuality-by-Default approach to understanding random variables. Fields Institute conference on Quantum Probability and the Mathematical Modeling of Decision Making (Toronto, Canada).
- Dzhafarov, E.N., & Kujala, J.V. (2014, November). General theory of contextuality and signaling. Purdue Winer Memorial Lectures (West Lafayette, Indiana).
- Dzhafarov, E.N. (2014, July). Contextuality-by-Default. Society for Mathematical Psychology Meeting (Quebec City, Canada).
- Dzhafarov, E.N., & Kujala, J.V. (2014, June). Contextuality Boundless but Measured: Extension of Bell-type Inequalities to Systems With Signaling. Quantum (Un)Speakables (Vienna, Austria).
- Dzhafarov, E.N. , & Colonius, H. (2013, October). G.T. Fechner: Correcting historical misrepresentations. Fechner Day 2013, Meeting of the International Society for Psychophysics (Freiburg, Germany).
- Colonius, H., & Dzhafarov, E.N. (2013, October). Ultrametric Fechnerian Scaling. Fechner's Day 2013, Meeting of the International Society for Psychophysics (Freiburg, Germany).
- Dzhafarov, E.N. (2013, August). Revealing mental processing architectures with selectively influenced components. Society for Mathematical Psychology Meeting (Potsdam, Germany).
- Dzhafarov, E.N., & Kujala, J.V. (2013, July). Can classical probability account for contextuality in quantum and non-quantum systems alike? Frontiers of Quantum and Mesoscopic Thermodynamics (Prague, Czech Republic).

Dzhafarov, E.N., & Kujala, J.V. (2013, July). A qualified Kolmogorovian account of probabilistic contextuality. Quantum Interaction 2013 (Leicester, England).

Dzhafarov, E.N., & Kujala, J.V. (2013, June). Probabilistic context through all-possible-couplings. The 4th International Conference on Cognitive Neurodynamics (Sigtuna, Sweden).

Dzhafarov, E.N., & Kujala, J.V. (2013, June). Contextuality embedded in the classical probability theory with multiple sample spaces: No-Forcing and No-Matching Theorems. Quantum Foundations and Quantum Information (Växjö, Sweden)

Colonus, H., & Dzhafarov, E.N. (2012, July). Ultrametric Fechnerian Scaling of discrete object sets. Society for Mathematical Psychology Meeting (Columbus, Ohio).

Zhang, R., & Dzhafarov, E.N. (2012, July). Perceptual separability through selective influence. Society for Mathematical Psychology Meeting (Columbus, Ohio).

Jones, M., & Dzhafarov, E.N. (2012, July). On the (un)falsifiability of models of choice RT. Society for Mathematical Psychology Meeting (Columbus, Ohio).

Dzhafarov, E.N., & Colonus, H. (2012, July). Re-reading Fechner and correcting historical misconceptions. Society for Mathematical Psychology Meeting (Columbus, Ohio).

Colonus, H., & Dzhafarov, E.N. (2012, July). Ultrametric Fechnerian Scaling of discrete object sets. International Conference on Mathematics of Distances and Applications (Varna, Bulgaria).

Kujala, J.V., & Dzhafarov, E.N. (2012, July). Pseudo-quasi metrics on jointly distributed random variables. International Conference on Mathematics of Distances and Applications (Varna, Bulgaria).

Jones, M., & Dzhafarov, E.N. (2012, June). The role of variability in models of choice RT. The Eleventh Annual Summer Interdisciplinary Conference (Cala Gonone, Sardinia).

Dzhafarov, E.N., & Kujala, J.V. (2012, June). Quantum entanglement and the issue of selective influences in psychology: An overview. Quantum Interaction 2012 (Paris, France).

Perry, L., & Dzhafarov, E.N. (2011, July). A test of tri-areal matching regularity for two-dimensional stimuli. Society for Mathematical Psychology Meeting (Medford, Massachusetts).

- Dzhafarov, E.N., & Kujala, J.V. (2011, July). Can we do without sample spaces? Society for Mathematical Psychology Meeting (Medford, Massachusetts).
- Dzhafarov, E.N., & Kujala, J.V. (2011, July). Joint Distribution Criterion and Linear Feasibility Test for selective influences. Society for Mathematical Psychology Meeting (Medford, Massachusetts).
- Dzhafarov, E.N. (2011, January). Advances in selective probabilistic causality. AFOSR Cognition and Decision Program Review (Dayton, Ohio).
- Dzhafarov, E.N. (2010, October). Dissimilarity and Regular Minimality. Purdue Winer Memorial Lectures (West Lafayette, Indiana).
- Trendtel, M., Ünlü, A., & Dzhafarov, E.N. (2010, October). With what probability regular minimality can be satisfied by chance? Meeting of the International Society for Psychophysics (Padua, Italy).
- Dzhafarov, E.N., & Paramei, G.V. (2010, October). Space of facial expressions: cumulated versus transformed dissimilarities. Meeting of the International Society for Psychophysics (Padua, Italy).
- Kujala, J.V., & Dzhafarov, E.N. (2010, October). Regular Minimality Principle and well-behaved Thurstonian-type models. Meeting of the International Society for Psychophysics (Padua, Italy).
- Dzhafarov, E.N., & Kujala, J.V. (2010, September). The Joint Distribution Criterion and the Distance Tests for Selective Probabilistic Causality. European Mathematical Psychology Group Meeting (Jyväskylä, Finland).
- Perry, L., & Dzhafarov, E.N. (2010, September). Matching Regularity for 2D Shapes and Locations. European Mathematical Psychology Group Meeting (Jyväskylä, Finland).
- Perry, L., & Dzhafarov, E.N. (2010, August). Matching Regularity for 2D Shapes and Locations. Society for Mathematical Psychology Meeting, Portland, Oregon.
- Dzhafarov, E.N., & Kujala, J.V. (2010, August). A Criterion and Tests for Selective Probabilistic Causality. Society for Mathematical Psychology Meeting, Portland, Oregon.
- Dzhafarov, E.N. (2010, January). Advances in selective probabilistic causality. AFOSR Cognition and Decision Program Review (Washington, DC).
- Kiefer, T., Unlu, A., & Dzhafarov, E.N. (2009, August). Fechnerian Scaling in R. Society for Mathematical Psychology Meeting, Amsterdam, The Netherlands.

- Kujala, J.V., & Dzhafarov, E.N. (2009, August). Reconciling Regular Minimality with Thurstonian-type Models. Society for Mathematical Psychology Meeting, Amsterdam, The Netherlands.
- Perry, L., & Dzhafarov, E.N. (2009, August). Perceptual discrimination of two-dimensional stimuli: a test of matching regularity. Society for Mathematical Psychology Meeting, Amsterdam, The Netherlands.
- Dzhafarov, E.N. (2009, January). Regular Minimality principle. AFOSR Cognition and Decision Program Review (Washington, DC).
- Colonus, H, Dzhafarov, E.N., & Diederich, A. (2008, August). Measuring auditory-visual integration efficiency. Meeting of the International Society for Psychophysics (Toronto, Canada).
- Kujala, J.V. , & Dzhafarov, E.N. (2008, July). The structure of discrimination functions. Meeting of the International Society for Psychophysics (Toronto, Canada).
- Dzhafarov, E.N. (2008, August). An ancient paradox for discrimination judgments. Meeting of the International Society for Psychophysics (Toronto, Canada).
- Kujala, J.V. , & Dzhafarov, E.N. (2008, July). Population-Level Tests of Selective Influence. Meeting of the Society for Mathematical Psychology (Washington, DC).
- Dzhafarov, E.N., & Kujala, J.V. (2008, July). Foundations of selective influence. Meeting of the Society for Mathematical Psychology (Washington, DC).
- Dzhafarov, E.N. (2008, July). The ancient sorites paradox and discrimination judgments. Meeting of the Society for Mathematical Psychology (Washington, DC).
- Dzhafarov, E.N. (2008, January). Regular Minimality and related issues. AFOSR Cognition and Decision Program Review (Washington, DC).
- Dzhafarov, E.N. (2007, November). Notions in topology, geometry, and probability growing from psychology. Purdue Winer Memorial Lectures (West Lafayette, Indiana).
- Kujala, J.V., & Dzhafarov, E.N. (2007, September). Tests for selectivity in the dependence of random variables on external factors. European Mathematical Psychology Group Meeting (Luxembourg).
- Dzhafarov, E.N. (2007, July). A new geometry of subjective stimulus spaces. Meeting of the Society for Mathematical Psychology (Irvine, California).

Dzhafarov, E.N. (2007, March). A new geometry for subjective stimulus spaces. AFOSR Cognition and Decision Program Review (Fairborn, Ohio).

Colonius, H., & Dzhafarov, E.N. (2006, September). Audio-visual integration of letters and speech. European Mathematical Psychology Group Meeting (Brest, France).

Kujala, J.V., & Dzhafarov, E.N. (2006, September). Regular Minimality principle. European Mathematical Psychology Group Meeting (Brest, France).

Dzhafarov, E.N., & Colonius, H. (2006, September). Universal Fechnerian Scaling. European Mathematical Psychology Group Meeting (Brest, France).

Colonius, H., Diederich, A., & Dzhafarov, E.N. (2006, July). Audio-visual integration of letters and speech: A Fechnerian Scaling analysis. Meeting of the Society for Mathematical Psychology (Vancouver, Canada).

Kujala, J.V., & Dzhafarov, E.N. (2006, July). Regular Minimality principle and well-behaved Thurstonian-type models. Meeting of the Society for Mathematical Psychology (Vancouver, Canada).

Dzhafarov, E.N., & Colonius, H. (2006, July). From discrimination to distance through dissimilarity. Meeting of the Society for Mathematical Psychology (Vancouver, Canada).

Dzhafarov, E.N. (2006, April). Regular Minimality principle. AFOSR Cognition and Decision Program Review (Fairborn, Ohio).

Colonius, H., & Dzhafarov, E.N. (2005, October). Recent applications of Fechnerian Scaling. Meeting of the International Society for Psychophysics (Traverse City, Michigan).

Dzhafarov, E.N., & Colonius, H. (2005, October). From Fechner to Fechner, and beyond. Meeting of the International Society for Psychophysics (Traverse City, Michigan).

Colonius, H., Diederich, A., & Dzhafarov, E.N. (2005, August). Visual-auditory integration of letters and speech sounds: A Fechnerian Scaling approach. Meeting of the Society for Mathematical Psychology (Memphis, Tennessee).

Dzhafarov, E.N., & Colonius, H. (2005, August). Fechnerian Simplexes. Meeting of the Society for Mathematical Psychology (Memphis, Tennessee).

Dzhafarov, E.N. (2005, August). What Regular Minimality principle is about: Reply to Ennis. Meeting of the Society for Mathematical Psychology (Memphis, Tennessee).

- Dzhafarov, E.N., & Gluhovsky, I. (2005, August). When a Single Source of Variability is All One Needs. Meeting of the Society for Mathematical Psychology (Memphis, Tennessee).
- Colonus, H., & Dzhafarov, E.N. (2004, July). Fechnerian Psychophysics Without Physics II: Discrete Object Sets. Meeting of the Society for Mathematical Psychology (Ann Arbor, Michigan).
- Dzhafarov, E.N., & Colonius, H. (2004, July). Fechnerian Psychophysics Without Physics I: General Theory. Meeting of the Society for Mathematical Psychology (Ann Arbor, Michigan).
- Colonus, H., & Dzhafarov, E.N. (2004, August). Multidimensional Scaling of Fechnerian Distances. International Meeting of the Psychometric Society (Monterey, California).
- Dzhafarov, E.N., & Colonius, H. (2004, June). Fechnerian Scaling of Discrete Object Sets. International Meeting of the Psychometric Society (Monterey, California).
- Colonus, H., & Dzhafarov, E.N. (2003, October). Fechnerian Scaling of Discrete Object Sets. Meeting of the International Society for Psychophysics (Larnaca Bay, Cyprus).
- Colonus, H., & Dzhafarov, E.N. (2003, July). Subjective Metrics On Discrete Object Sets Derived From Their Discriminability. European Mathematical Psychology Group Meeting (Madrid, Spain).
- Dzhafarov, E.N., & Colonius, H. (2003, July). Foundations and scope of generalized Fechnerian scaling. European Mathematical Psychology Group Meeting (Madrid, Spain).
- Dzhafarov, E.N. (2001, November). Thurstonian modeling of discrimination probabilities. "Mini-conference" on mathematical psychology at Purdue University (West Lafayette, Indiana).
- Dzhafarov, E.N. (2001, August). Are stimuli mapped into random variables in a perceptual space? Meeting of the Society for Mathematical Psychology (Providence, Rhode Island).
- Dzhafarov, E.N. (2000, August). Perceptual separability: A Fechnerian perspective. Meeting of the Society for Mathematical Psychology (Kingston, Ontario, Canada).
- Dzhafarov, E.N. (1999, October). Fechner, Thurstone, and Riemann: The unexpected psychophysical trinity. "Miniconference" on Mathematical Psychology at University of Indiana (Bloomington, Indiana).
- Dzhafarov, E.N. (1999, August). A complete characterization of unconditionally selective influence in processing architectures. Meeting of the Society for Mathematical Psychology (Santa Cruz, California).

Dzhafarov, E.N., & Colonius, H. (1999, August). Fechnerian metrics, Fullerton-Cattell principle, and Thurstonian link: Further developments in solving the oldest problem in psychology. Meeting of the Society for Mathematical Psychology (Santa Cruz, California).

Dzhafarov, E.N., & Colonius, H. (1998, August). Multidimensional Fechnerian scaling: A solution for the oldest problem in experimental psychology. Meeting of the Society for Mathematical Psychology (Nashville, Tennessee).

Dzhafarov, E.N. (1997, September). Double skew-dual Scaling: A coordinated scaling of two sets of objects related by dominance matrix. European Mathematical Psychology Group Meeting (Nijmegen, The Netherlands).

Dzhafarov, E.N. (1997, August). Double skew-dual scaling: Conjoint scaling of two sets of objects related by a dominance matrix. Meeting of the Society for Mathematical Psychology (Bloomington, Indiana).

Dzhafarov, E.N. (1997, August). A complete characterization of indirect non-selectivity. Meeting of the Society for Mathematical Psychology (Bloomington, Indiana).

Dzhafarov, E.N. (1996, August). A canonical representation for selectively influenced processes and component times. Meeting of the Society for Mathematical Psychology (Chapel Hill, North Carolina).

Rouder, J.N., & Dzhafarov, E.N. (1995, August). Empirical discriminability of two models for stochastic relationship between additive components of response time. Meeting of the Society for Mathematical Psychology (Irvine, California).

Dzhafarov, E.N. (1995, August). An extended principle of labeled line in motion encoding and detection. Meeting of the Society for Mathematical Psychology (Irvine, California).

Dzhafarov, E.N. & Schweickert, R. (1994, August). Decompositions of response times: A general theory (almost). Meeting of the Society for Mathematical Psychology (Seattle, Washington).

Dzhafarov, E.N. (1993, August). Meaningfulness in psychology versus dimensional analysis in physics. Meeting of the Society for Mathematical Psychology (Norman, Oklahoma).

Dzhafarov, E.N. (1993, August). Internal and external compositions of processing times selectively influenced by different factors. Meeting of the Society for Mathematical Psychology (Norman, Oklahoma).

Dzhafarov, E.N. (1992, August). Choice RT and deterministic processes racing for random criteria. Meeting of the Society for Mathematical Psychology (Stanford, California).

Dzhafarov, E.N. (1991, August). Visual kinematics. Meeting of the Society for Mathematical Psychology (Bloomington, Indiana).

Dzhafarov, E.N. (1991, August). Additive decomposition of simple reaction time. Meeting of the Society for Mathematical Psychology (Bloomington, Indiana).

Dzhafarov, E.N. (1988, August). Isosensitivity in two ROC points: A solution to Iverson's problem. Meeting of the Society for Mathematical Psychology (Evanston, Illinois).

Dzhafarov, E.N. (1987, August). Visual kinematics: A metaphor or something real? Meeting of the Society for Mathematical Psychology (Berkeley, California).

Dzhafarov, E.N. (1987, December). Motion detection algorithms. Conference on Perception organized by The Netherlands Association of Basic Research (Utrecht, The Netherlands).

Dzhafarov, E.N. (1984, October). Melody direction identification in random chord sequences. International Conference on Computational Models of Hearing and Vision (Tallin, USSR).

Dzhafarov, E.N. (1983, October). Kinematic thresholds and reaction times in visual perception of motion. International Conference on Perception (Prague, Czechoslovakia).

Dzhafarov, E.N. (1981, October). A model for visual motion detection. Fifth Conference of Psychologists from Danube Countries (Rostov The Great, USSR).

PUBLICATIONS

Abramsky, S., Cabello, A., Dzhafarov, E.N., Kurzynski, P. (2024). Quantum contextuality, causality, and freedom of choice. *Philosophical Transactions of the Royal Society A* 382:20230009.

Dzhafarov, E.N. (2024). Hidden variables, free choice, context-independence, and all that. *Philosophical Transactions of the Royal Society A* 382:20230015. (available as arXiv:2305.16132.)

Kujala, J.V. & Dzhafarov, E.N. (2023). Quantum mechanics is compatible with counterfactual definiteness. *Entropy* 25,1356; <https://doi.org/10.3390/e25091356>. (available as arXiv:2308.12576.)

Cervantes, V.H., & Dzhafarov, E.N. (2023). Hypercyclic systems of measurements and patterns of contextuality. *European Physics Journal - Special Topics* 232:3355–3358. (available as arXiv:2304.01155.)

Dzhafarov, E.N., & Colonius, H. (2023). Fechnerian Scaling: Dissimilarity Cumulation Theory. In G. Ashby, H. Colonius, and E.N. Dzhafarov (Eds). *New Handbook of Mathematical Psychology*, vol. 3, pp. 80-162. Cambridge, UK: Cambridge University Press. (available as arXiv:2107.11292.)

Ashby, G., Colonius, H., & Dzhafarov, E.N. (2023). Preface: Mathematical Psychology in a Quest for Conceptual Clarity. In G. Ashby, H. Colonius, and E.N. Dzhafarov (Eds). *New Handbook of Mathematical Psychology*, vol. 3. Cambridge, UK: Cambridge University Press.

Dzhafarov, E.N. (2023). The Contextuality-by-Default view of the Sheaf-Theoretic approach to contextuality. In A. Palmigiano and M. Sadrzadeh (Eds.) *Samson Abramsky on Logic and Structure in Computer Science and Beyond*, in series *Outstanding Contributions to Logic*, pp. 573-593. Springer Cham. (available as arXiv:1906.02718.)

Dzhafarov, E.N. (2023). Contextuality and random variables. In A. Plotnitsky, E. Haven (Eds). *The Quantum-Like Revolution - A Festschrift for Andrei Khrennikov*, pp. 339-360. Springer Cham. (available as arXiv:2104.12495.)

Dzhafarov, E.N. & Kujala, J.V. (2023). Contextuality with disturbance and without: Neither can violate substantive requirements the other satisfies. *Entropy* 25, 581; <https://doi.org/10.3390/e25040581> (available as arXiv:2302.11995.)

Dzhafarov, E.N. & Kujala, J.V. (2023). Contextuality and informational redundancy. *Entropy* 25, 6; <https://doi.org/10.3390/e25010006> (available as arXiv:2211.03164.)

Dzhafarov, E.N. (2022). Context-independent mapping and free choice are equivalent: A general proof. *Journal of Physics A: Mathematical and Theoretical* 55, 305304. [Corrigendum note in *Journal of Physics A: Mathematical and Theoretical* 55, 4095020, 2022] (available as arXiv:2110.15910, with corrections.)

Dzhafarov, E.N. (2022). Contents, contexts, and basics of contextuality. In Shyam Wuppuluri and Ian Stewart (Eds). *From Electrons to Elephants and Elections*, *The Frontiers Collection*. pp. 259-286. Cham, Switzerland: Springer. (available as arXiv:2103.07954.)

Kujala, J.V. & Dzhafarov, E.N. (2022). Contextuality and dichotomizations of random variables. *Foundations of Physics* 52, 13. (available as arXiv:2105.03718)

- Dzhafarov, E.N., Kujala, J.V., & Cervantes, V.H. (2021). Epistemic odds of contextuality in cyclic systems. *European Physics Journal - Special Topics* 230:937–940. (available as arXiv:2002.07755.)
- Dzhafarov, E.N. (2021). Assumption-free derivation of the Bell-type criteria of contextuality/nonlocality. *Entropy* 23, 1543; <https://doi.org/10.3390/e23111543>. (available as arXiv:2108.05480)
- Dzhafarov, E.N., & Kujala, J.V. (2020). Systems of random variables and the Free Will Theorem. *Physical Review Research* 2:043288; doi: 10.1103/PhysRevResearch.2.043288. (available as arXiv:2007.13229.)
- Cervantes, V.H., & Dzhafarov, E.N. (2020). Contextuality analysis of impossible figures. *Entropy* 22, 981; doi: 10.3390/e22090981. (available as arXiv:2008.04053.)
- Dzhafarov, E.N., Kujala, J.V., & Cervantes, V.H. (2020). Contextuality and noncontextuality measures and generalized Bell inequalities for cyclic systems. *Physical Review A* 101:042119. [Erratum notes in *Physical Review A* 101:069902, 2020, and *Physical Review A* 103:059901, 2021] (available as arXiv:1907.03328, with corrections.)
- Kujala, J.V., & Dzhafarov, E.N. (2019). Measures of contextuality and noncontextuality. *Philosophical Transactions of the Royal Society A* 377:20190149. (available as arXiv:1903.07170.)
- Dzhafarov, E.N. (2019). On joint distributions, counterfactual values, and hidden variables in understanding contextuality. *Philosophical Transactions of the Royal Society A* 377:20190144. (available as arXiv:1809.04528.)
- Dzhafarov, E.N. (2019). Contextuality and probability in quantum mechanics and beyond: A preface. *Philosophical Transactions of the Royal Society A* 377:20190371.
- Basieva, I., Cervantes, V.H., Dzhafarov, E.N., Khrennikov, A. (2019). True contextuality beats direct influences in human decision making. *Journal of Experimental Psychology: General* 148, 1925-1937 (available as arXiv:1809.04528.)
- Dzhafarov, D.D., Dzhafarov, E.N. (in press). Classificatory sorites, probabilistic supervenience, and rule-making. In A. Abasnezhad and O. Bueno (Eds.) *On the Sorites Paradox*. Springer. (available as arXiv:1502.01075.)
- Cervantes, V.H., Dzhafarov, E.N. (2019). True contextuality in a psychophysical experiment. *Journal of Mathematical Psychology* 91, 119-127. (available as arXiv:1812.00105.)
- Dzhafarov, E.N., Kon, M. (2019). On universality of classical probability with contextually labeled random variables: Response to Khrennikov. *Journal of Mathematical Psychology* 89, 93-97. (available as arXiv:1812.04721.)

- Dzhafarov, E.N., Kon, M. (2018). On universality of classical probability with contextually labeled random variables. *Journal of Mathematical Psychology* 85, 17-24. (available as arXiv:1710.07847.)
- Cervantes, V.H., & Dzhafarov, E.N. (2018). Snow Queen is evil and beautiful: Experimental evidence for probabilistic contextuality in human choices. *Decision* 5, 193-204. (available as arXiv:1711.00418.)
- Dzhafarov, E.N. (2018). Replacing nothing with something special: Contextuality-by-Default and dummy measurements. In A. Khrennikov & T. Bourama (Eds) *Quantum Foundations, Probability and Information*, pp. 39-44. Berlin: Springer. (available as arXiv:1703.06752.)
- Dzhafarov, E.N., Kujala, J.V. (2018). Contextuality analysis of the double slit experiment (with a glimpse into three slits). *Entropy* 20, 278; doi:10.3390/e20040278. (available as arXiv:1801.10593.)
- Dzhafarov, E.N. (2017). On random variability of responses — a note of Hens Mammen's book. In Mammens, J. *A New Logical Foundation for Psychology* (SpringerBriefs in Psychology), pp. 109-117. Berlin: Springer.
- Dzhafarov, E.N., Cervantes, V.H., & Kujala, J.V. (2017). Contextuality in canonical systems of random variables. *Philosophical Transactions of the Royal Society A* 375: 20160389. (available as arXiv:1703.01252.)
- Cervantes, V.H., & Dzhafarov, E.N. (2017). Advanced analysis of quantum contextuality in a psychophysical double-detection experiment. *Journal of Mathematical Psychology* 79, 77-84. (available as arXiv:1611.04184.)
- Dzhafarov, E.N., & Kujala, J.V. (2017). Probabilistic foundations of contextuality. *Fortschritte der Physik* 65, 1600040 (1-11). (available as arXiv:1604.08412.)
- Dzhafarov, E.N., & Kujala, J.V. (2017). Contextuality-by-Default 2.0: Systems with binary random variables. In J.A. de Barros, B. Coecke, E. Pothos (Eds.) *Lecture Notes in Computer Science* 10106, 16-32. (available as arXiv:1604.04799.)
- Cervantes, V.H., & Dzhafarov, E.N. (2017). Exploration of contextuality in a psychophysical double-detection experiment. In J.A. de Barros, B. Coecke, E. Pothos (Eds.) *Lecture Notes in Computer Science* 10106, 182-193. (available as arXiv:1604.04800.)
- Zhang, R., & Dzhafarov, E.N. (2017). Testing contextuality in cyclic psychophysical systems of high ranks. In J.A. de Barros, B. Coecke, E. Pothos (Eds.) *Lecture Notes in Computer Science* 10106, 151-162. (available as arXiv:1604.04801.)

- Dzhafarov, E.N. (2016). Stochastic unrelatedness, couplings, and contextuality. *Journal of Mathematical Psychology* 75C, 34-41. (available as arXiv:1506.08218.)
- Dzhafarov, E.N., & Kujala, J.V. (2016). Context-content systems of random variables: The contextuality-by-default theory. *Journal of Mathematical Psychology* 74, 11-33. (available as arXiv:1511.03516.)
- Dzhafarov, E.N., & Kujala, J.V. (2016). Probability, random variables, and selectivity. In W. Batchelder, H. Colonius, E.N. Dzhafarov, J. Myung (Eds). *The New Handbook of Mathematical Psychology*, vol.1, pp. 85-150. Cambridge, UK: Cambridge University Press. (available as arXiv:1312.2239.)
- Dzhafarov, E.N. (2016). About Mathematical Psychology. In W. Batchelder et al. (Eds), pp. 85-150. *New Handbook of Mathematical Psychology* vol. 1. Cambridge University Press.
- Dzhafarov, E.N., Kujala, J.V., Cervantes, V.H., Zhang, R., & Jones, M. (2016). On contextuality in behavioral data. *Philosophical Transactions of the Royal Society A* 374: 20150234. (available as arXiv:1508.04751.)
- Kujala, J.V., & Dzhafarov, E.N. (2016). Proof of a conjecture on contextuality in cyclic systems with binary variables. *Foundations of Physics* 46, 282-299. (available as arXiv:1503.02181.)
- de Barros, J.A., Dzhafarov, E.N., Kujala, J.V., & Oas, G. (2016). Measuring Observable Quantum Contextuality. In H. Atmanspacher, T. Filk, E. Pothos (Eds.) *Lecture Notes in Computer Science* 9535, 36-47. (available as arXiv:1406.3088.)
- Dzhafarov, E.N., Kujala, J.V., & Cervantes, V.H. (2016). Contextuality-by-Default: A brief overview of ideas, concepts, and terminology. In H. Atmanspacher, T. Filk, E. Pothos (Eds.) *Lecture Notes in Computer Science* 9535 12-23. (available as arXiv:1504.00530.)
- Dzhafarov, E.N., Zhang, R., & Kujala, J.V. (2016). Is there contextuality in behavioral and social systems? *Philosophical Transactions of the Royal Society A* 374: 20150099. (available as arXiv:1504.07422.)
- Kujala, J.V., & Dzhafarov, E.N. (2015). Probabilistic contextuality in EPR/Bohm-type systems with signaling allowed. In E.N. Dzhafarov, S. Jordan, R. Zhang, V.H. Cervantes (Eds.) *Contextuality from Quantum Physics to Psychology*, pp. 287-308. New Jersey: World Scientific. (available as arXiv:1406.0243.)
- Dzhafarov, E.N., & Kujala, J.V. (2015). Conversations on contextuality. In E.N. Dzhafarov, S. Jordan, R. Zhang, V.H. Cervantes (Eds.) *Contextuality from Quantum Physics to Psychology*, pp. 1-22. New Jersey: World Scientific. (available as arXiv:1508.00862.)

Kujala, J.V., Dzhafarov, E.N., & Larsson, J.-Å (2015). Necessary and sufficient conditions for extended noncontextuality in a broad class of quantum mechanical systems. *Physical Review Letters* 115, 150401. (available as arXiv:1407.2886.)

Zhang, R. & Dzhafarov, E.N. (2015). Noncontextuality with marginal selectivity in reconstructing mental architectures. *Frontiers in Psychology: Cognition* 1:12 doi: 10.3389/fpsyg.2015.00735. [Corrigendum note in *Frontiers in Psychology: Cognition* 7:437 doi: 10.3389/fpsyg.2016.00437, 2016.]

Dzhafarov, E.N., Kujala, J.V., & Larsson, J.-Å. (2015). Contextuality in three types of quantum-mechanical systems. *Foundations of Physics* 7, 762-782 (available as arXiv:1411.2244).

Dzhafarov, E.N., & Kujala, J.V. (2015). Random variables recorded under mutually exclusive conditions: Contextuality- by-Default. In H. Liljenström (Ed.) *Advances in Cognitive Neurodynamics IV* (pp. 405-410) (available as arXiv:1309.0962.)

Dzhafarov, E.N., & Kujala, J.V. (2014). Contextuality is about identity of random variables. *Physica Scripta* T163, 014009 (available as arXiv:1405.2116.)

Dzhafarov, E.N., & Perry, L. (2014). Perceptual matching and sorites: Experimental study of an ancient Greek paradox. *Attention, Perception, and Psychophysics* 76, 2441-2464.

Khrennikov, A., Basieva, I., Dzhafarov, E.N., & Busemeyer, J.R. (2014). Quantum models for psychological measurements: An unsolved problem. *PLoS One* 9(10): e110909. doi:10.1371/journal.pone.0110909 (available as arXiv:1403.3654.)

Dzhafarov, E.N. (2014). A note on quantum states and observables in psychological measurements. arXiv:1405.5389.

Dzhafarov, E.N., & Kujala, J.V. (2014). A qualified Kolmogorovian account of probabilistic contextuality. In H. Atmanspacher, E. Haven, K. Kitto, D. Raine (Eds.) *Lecture Notes in Computer Science* 8369, 201-212 (available as arXiv:1304.4546.)

Dzhafarov, E.N., & Kujala, J.V. (2014). Embedding quantum into classical: contextualization vs conditionalization. *PLoS One* 9(3): e92818. doi:10.1371/journal.pone.0092818 (available as arXiv:1312.0097.)

Dzhafarov, E.N., & Kujala, J.V. (2014). No-Forcing and No-Matching theorems for classical probability applied to quantum mechanics. *Foundations of Physics*, 44, 248-265 (available as arXiv:1305.3649.)

- Jones, M., & Dzhafarov, E.N. (2014). Analyzability, ad hoc restrictions, and excessive flexibility of evidence-accumulation models: Reply to two critical commentaries. *Psychological Review* 121, 689-695.
- Jones, M., & Dzhafarov, E.N. (2014). Unfalsifiability and mutual translatability of major modeling schemes for choice reaction time. *Psychological Review*, 121, 1-32.
- Dzhafarov, E.N., & Kujala, J.V. (2014). Selective influences, marginal selectivity, and Bell/CHSH inequalities. *Topics in Cognitive Science*, 6, 121–128 (available as arXiv:1211.2342.)
- Dzhafarov, E.N., & Kujala, J.V. (2013). Order-distance and other metric-like functions on jointly distributed random variables. *Proceedings of the American Mathematical Society*, 141, 3291-3301. (available as arXiv:1110.1228.)
- Dzhafarov, E.N., & Kujala, J.V. (2013). All-possible-couplings approach to measuring probabilistic context. *PLoS ONE* 8(5): e61712. doi:10.1371/journal.pone.0061712. (available as arXiv:1209.3430.)
- Dzhafarov, E.N., & Kujala, J.V. (2013). Beyond quantum probability: Another formalism shared by quantum physics and psychology. A commentary on “Can Quantum Probability Provide a New Direction for Cognitive Modeling?” by E.M. Pothos and J.R. Busemeyer. *Behavioral and Brain Sciences*, 36, 283-284.
- Colonus, H., & Dzhafarov, E.N. (2012). Ultrametric Fechnerian Scaling of discrete object sets. In M. Deza, M. Petitjean, & K. Markov (Eds.) *Mathematics of Distances and Applications* (pp. 129-132). ITHEA: Sofia.
- Dzhafarov, E.N., & Kujala, J.V. (2012). Quantum entanglement and the issue of selective influences in psychology: An overview. In J.R. Busemeyer, F. Dubois, A. Lambert-Mogiliansky, M. Melucci (Eds.) *Lecture Notes in Computer Science* 7620, 184-195. (available as arXiv:1209.0041.)
- Dzhafarov, E.N., & Dzhafarov, D.D. (2012). The sorites paradox: A behavioral approach. In L. Rudolph (Ed.) *Qualitative Mathematics for the Social Sciences: Mathematical Models for Research on Cultural Dynamics* (pp. 105-136). London: Routledge.
- Dzhafarov, E.N. & Kujala, J.V. (2012). Selectivity in probabilistic causality: Where psychology runs into quantum physics. *Journal of Mathematical Psychology*, 56, 54-63. (available as arXiv: 1110.2388.)
- Dzhafarov, D.D., & Dzhafarov, E.N. (2011). The equivalence of two ways of computing distances from dissimilarities for arbitrary sets of stimuli. *Journal of Mathematical Psychology*, 55, 469-472.

- Dzhafarov, E.N. (2011). On the reverse problem of Fechnerian Scaling. In E.N. Dzhafarov & L. Perry (Eds.) *Descriptive and Normative Approaches to Human Behavior* (pp. 91-122). New Jersey: World Scientific.
- Dzhafarov, E.N., and Colonius, H. (2011). The Fechnerian idea. *American Journal of Psychology*, 124, 127-140.
- Dzhafarov, E.N., Ünlü, A., Trendtel, M., and Colonius, H. (2011). Matrices with a given number of violations of Regular Minimality. *Journal of Mathematical Psychology*, 55, 240–250.
- Dzhafarov, E.N. (2011). Mathematical foundations of Universal Fechnerian Scaling. In B. Berglund, G.B. Rossi, J. Townsend, & L. Pendrill (Eds.) *Measurements With Persons* (pp. 185-210). New York: Psychology Press.
- Dzhafarov, E.N., & Kujala, J.V. (2011). Selectivity in probabilistic causality: Drawing arrows from inputs to stochastic outputs. arXiv: 1108.3074.
- Trendtel, M., Ünlü, A., & Dzhafarov, E.N. (2010). Matrices satisfying Regular Minimality. *Frontiers in Quantitative Psychology and Measurement*. 1:211 doi: 10.3389/fpsyg.2010.00211.
- Dzhafarov, E.N., & Paramei, G.V. (2010). Space of facial expressions: Cumulated versus transformed dissimilarities. In A. Bastianelli & G. Vidotto (Eds.), *Fechner Day 2010* (pp. 605–610). Padua, Italy: The International Society for Psychophysics.
- Trendtel, M., Ünlü, A., & Dzhafarov, E.N. (2010). With what probability regular minimality can be satisfied by chance? In A. Bastianelli & G. Vidotto (Eds.), *Fechner Day 2010* (pp. 63–68). Padua, Italy: The International Society for Psychophysics.
- Kujala, J.V., & Dzhafarov, E.N. (2010). Using well-behaved Thurstonian-type models to emulate Regular Minimality. In A. Bastianelli & G. Vidotto (Eds.), *Fechner Day 2010* (pp. 45–50). Padua, Italy: The International Society for Psychophysics.
- Dzhafarov, E.N., & Kujala, J.V. (2010). The Joint Distribution Criterion and the Distance Tests for Selective Probabilistic Causality. *Frontiers in Quantitative Psychology and Measurement*. 1:151 doi: 10.3389/fpsyg.2010.00151.
- Dzhafarov, E.N., & Perry, L. (2010). Matching by adjustment: if X matches Y, does Y match X? *Frontiers in Quantitative Psychology and Measurement*. 1:24. doi:10.3389/fpsyg.2010.00024.
- Kiefer, T., Ünlü, A., & Dzhafarov, E.N. (2010). The R package fechner for Fechnerian scaling. In H. Locarek-Junge & C. Weihs (Eds.), *Studies in Classification, Data Analysis, and Knowledge Organization* (pp. 315–322). Berlin: Springer.

- Dzhafarov, E.N. (2010). Dissimilarity, quasidistance, distance. *Journal of Mathematical Psychology*, 54, 334-337.
- Dzhafarov, E.N. (2010). Dissimilarity Cumulation as a procedure correcting for violations of triangle inequality. *Journal of Mathematical Psychology*, 54, 284-287.
- Dzhafarov, E.N., & Dzhafarov, D.D. (2010). Sorites without vagueness II: Comparative sorites. *Theoria*, 76, 25-53. Dzhafarov, E.N., & Dzhafarov, D.D. (2010). Sorites without vagueness I: Classificatory sorites. *Theoria*, 76, 4-24.
- Dzhafarov, E.N. (2009). Review of "Sensory Neuroscience: Four Laws of Psychophysics" by Josef J. Zwislocki, Springer, (2009). ix+170 pp., Index. *Journal of Mathematical Psychology*, 53, 600-602.
- Kujala, J.V., & Dzhafarov, E.N. (2009). A new definition of well-behaved discrimination functions. *Journal of Mathematical Psychology*, 53, 593-599.
- Kujala, J.V., & Dzhafarov, E.N. (2009). Regular Minimality and Thurstonian-type modeling. *Journal of Mathematical Psychology*, 53, 486-501.
- Ünlü, A., Kiefer, T., & Dzhafarov, E.N. (2009). Fechnerian Scaling in R: The package fechner. *Journal of Statistical Software*, 31, Issue 6, 1-24. (URL for the paper and software: <http://www.jstatsoft.org/v31/i06>.)
- Dzhafarov, E.N. (2008). An ancient paradox for discrimination judgments. In B.A. Schneider & B.M. Ben-David (Eds) *Fechner Day 2008* (pp. 41-46). Mt. Toronto, CA: Minuteman Press.
- Kujala, J.V., & Dzhafarov, E.N. (2008). Testing for selectivity in the dependence of random variables on external factors. *Journal of Mathematical Psychology*, 52, 128-144.
- Kujala, J.V., & Dzhafarov, E.N. (2008). On minima of discrimination functions. *Journal of Mathematical Psychology*, 52, 116-127.
- Dzhafarov, E.N. (2008). Dissimilarity cumulation theory in smoothly-connected spaces. *Journal of Mathematical Psychology*, 52, 93-115.
- Dzhafarov, E.N. (2008). Dissimilarity cumulation theory in arc-connected spaces. *Journal of Mathematical Psychology*, 52, 73-92. [Corrigendum note in *Journal of Mathematical Psychology*, 53, 300, 2009.]
- Dzhafarov, E.N., & Colonius, H. (2007). Dissimilarity Cumulation theory and subjective metrics. *Journal of Mathematical Psychology*, 51, 290-304.
- Dzhafarov, E.N., & Colonius, H. (2006). Reconstructing distances among objects from their discriminability. *Psychometrika*, 71, 365 - 386.

- Dzhafarov, E.N. (2006). Mathematical theorizing versus mathematical metaphorizing: A commentary on Rudolph. *Culture and Psychology*, 12, 205-214.
- Dzhafarov, E.N., & Gluhovsky, I. (2006). Notes on selective influence, probabilistic causality, and probabilistic dimensionality. *Journal of Mathematical Psychology*, 50, 390–401.
- Dzhafarov, E.N. (2006). On the law of Regular Minimality: Reply to Ennis. *Journal of Mathematical Psychology*, 50, 74-93. [Erratum note in *Journal of Mathematical Psychology*, 50, 436.]
- Dzhafarov, E.N., & Colonius, H. (2006). Generalized Fechnerian Scaling. In H. Colonius & E.N. Dzhafarov (Eds.), *Measurement and Representation of Sensations* (pp. 47-88). Mahwah, NJ: Erlbaum.
- Dzhafarov, E.N., & Colonius, H. (2006). Regular Minimality: A fundamental law of discrimination. In H. Colonius & E.N. Dzhafarov (Eds.), *Measurement and Representation of Sensations* (pp. 1-46). Mahwah, NJ: Erlbaum.
- Dzhafarov, E.N. (2005). Justification, skepticism, irreverence: or why science is different from faith and rhetoric. *Trames*, 9, 377-392.
- Dzhafarov, E.N., & Colonius, H. (2005). From Fechner to Fechner, and beyond. In J.S. Monahan, S.M. Sheffert, & J.T. Townsend (Eds) *Fechner Day 2005* (pp. 83-88). Mt. Pleasant, MI: Michigan University Press.
- Izmailov, Ch. A., Dzhafarov, E.N., & Zimachev, M.M. (2005). Psychometric function of luminance based on the frog electroretinogram (retinometric function). *Sensory Systems*, 19, 152-157 (in Russian).
- Dzhafarov, E.N., & Colonius, H. (2005). Psychophysics without physics: Extension of Fechnerian Scaling from continuous to discrete and discrete-continuous stimulus spaces. *Journal of Mathematical Psychology*, 49, 125-141.
- Dzhafarov, E.N., & Colonius, H. (2005). Psychophysics without physics: A purely psychological theory of Fechnerian Scaling in continuous stimulus spaces. *Journal of Mathematical Psychology*, 49, 1-50.
- Colonius, H., & Dzhafarov, E.N. (2005). Fechnerian Psychophysics Without Physics II: Discrete Object Sets. *Journal of Mathematical Psychology*, 49, 100.
- Dzhafarov, E.N., & Colonius, H. (2005). Fechnerian Psychophysics Without Physics I: General Theory. *Journal of Mathematical Psychology*, 49, 99-100.

- Dzhafarov, E.N., Schweickert, R., & Sung, K. (2004). Mental architectures with selectively influenced but stochastically interdependent components. *Journal of Mathematical Psychology*, 48, 51-64.
- Dzhafarov, E.N. (2004). Perceptual separability of stimulus dimensions: A Fechnerian approach. In C. Kaernbach, E. Schröger, H. Müller (Eds.), *Psychophysics beyond Sensation: Laws and Invariants of Human Cognition* (pp. 9-26). Mahwah, NJ: Erlbaum.
- Dzhafarov, E.N. (2003). Thurstonian-type representations for “same-different” discriminations: Probabilistic decisions and interdependent images. *Journal of Mathematical Psychology*, 47, 229-243. [Corrigendum note in *Journal of Mathematical Psychology*, 50, 511, 2006.]
- Dzhafarov, E.N. (2003). Thurstonian-type representations for “same-different” discriminations: Deterministic decisions and independent images. *Journal of Mathematical Psychology*, 47, 208-228.
- Dzhafarov, E.N. (2003). Selective influence through conditional independence. *Psychometrika*, 68, 7-26.
- Dzhafarov, E.N. (2002). Multidimensional Fechnerian scaling: Pairwise comparisons, regular minimality, and nonconstant self-similarity. *Journal of Mathematical Psychology*, 46, 583-608.
- Dzhafarov, E.N. (2002). Multidimensional Fechnerian scaling: Perceptual separability. *Journal of Mathematical Psychology*, 46, 564-582.
- Dzhafarov, E.N. (2002). Multidimensional Fechnerian scaling: Probability-distance hypothesis. *Journal of Mathematical Psychology*, 46, 352-374.
- Dzhafarov, E.N. (2002). Multidimensional Fechnerian scaling: Regular variation version. *Journal of Mathematical Psychology*, 46, 226-244.
- Dzhafarov E.N. (2001). Fechnerian Psychophysics. In N.J. Smelser, P.B. Baltes (Eds.) *International Encyclopedia of the Social and Behavioral Sciences*, v. 8 (pp. 5437-5440). New York: Pergamon Press.
- Izmailov, Ch. A., Dzhafarov, E.N., & Zimachev, M.M. (2001). Luminance discrimination probabilities derived from the frog electroretinogram. In E. Sommerfeld, R. Kompass, & T. Lachmann (Eds.), *Fechner Day 2001* (pp. 206-211). Lengerich: Pabst Science Publishers.
- Dzhafarov, E.N. (2001). Fechnerian scaling and Thurstonian modeling. In E. Sommerfeld, R. Kompass, & T. Lachmann (Eds.), *Fechner Day 2001* (pp. 42-47). Lengerich: Pabst Science Publishers.
- Dzhafarov, E.N. (2001). Fechnerian and Thurstonian analyses of discrimination probabilities. In *Proceedings of the International Meeting of the Psychometric Society* (p. 144). Osaka University, Osaka.

- Dzhafarov, E.N., & Colonius, H. (2001). Multidimensional Fechnerian scaling: Basics. *Journal of Mathematical Psychology*, 45, 670-719.
- Dzhafarov, E.N. (2001). Unconditionally selective dependence of random variables on external factors. *Journal of Mathematical Psychology*, 45, 421-451.
- Schweickert, R., Giorgini, M., & Dzhafarov, E.N. (2000). Selective influence and response time cumulative distribution functions in serial-parallel networks. *Journal of Mathematical Psychology*, 44, 504-535.
- Dzhafarov, E.N. (1999). Double skew-dual scaling: A conjoint scaling of two sets of objects related by a dominance matrix. *Journal of Mathematical Psychology*, 43, 483-517.
- Dzhafarov, E.N., & Colonius, H. (1999). Fechnerian metrics. In P.R. Killeen & W.R. Uttal (Eds.), *Looking Back: The End of the 20th Century Psychophysics* (pp. 111-116). Tempe, AZ: Arizona University Press.
- Dzhafarov, E.N. (1999). Double skew-dual scaling: Conjoint scaling of two sets of objects related by a dominance matrix. *Journal of Mathematical Psychology*, 42, 491.
- Dzhafarov, E.N., & Colonius, H. (1999). Fechnerian metrics in unidimensional and multidimensional stimulus spaces. *Psychonomic Bulletin and Review*, 6, 239-268.
- Dzhafarov, E.N. (1999). Conditionally selective dependence of random variables on external factors. *Journal of Mathematical Psychology*, 43, 123-157.
- Dzhafarov, E.N. (1997). Process representations and decompositions of response times. In A.A.J. Marley (Ed.), *Choice, Decision and Measurement: Essays in Honor of R. Duncan Luce* (pp. 255-278). Mahwah, NJ: Erlbaum.
- Cortese, J.M., & Dzhafarov, E.N. (1996). Empirical recovery of response time decomposition rules II: Discriminability of serial and parallel architectures. *Journal of Mathematical Psychology*, 40, 203-218.
- Dzhafarov, E.N., & Cortese, J.M. (1996). Empirical recovery of response time decomposition rules I: Sample-level Decomposition tests. *Journal of Mathematical Psychology*, 40, 185-202.
- Dzhafarov, E.N., & Rouder, J.N. (1996). Empirical discriminability of two models for stochastic relationship between additive components of response time. *Journal of Mathematical Psychology*, 40, 48-63.
- Dzhafarov, E.N. (1996). A canonical representation for selectively influenced processes and component times. *Journal of Mathematical Psychology*, 40, 362.

- Dzhafarov, E.N. (1995). A textbook that teaches how to think soundly. A review of *Sound and Hearing: A Conceptual Introduction*, by R.D. Luce. *Contemporary Psychology*, 40, 31-32.
- Dzhafarov, E.N. (1995). Empirical meaningfulness, measurement-dependent constants, and dimensional analysis. In R. D. Luce, M. D'Zmura, D. Hoffman, G.J. Iverson, & A.K. Romney (Eds.), *Geometric Representations of Perceptual Phenomena* (pp. 113-134). Mahwah, NJ: Erlbaum.
- Dzhafarov, E.N., & Schweickert, R. (1995). Decompositions of response times: An almost general theory. *Journal of Mathematical Psychology*, 39, 285-314.
- Dzhafarov, E.N., & Böckenholt, U. (1995). Decomposition of recurrent choices into stochastically independent counts. *Journal of Mathematical Psychology*, 39, 40-56.
- Dzhafarov, E.N. (1994). Dimensional analysis, identifiable scale points, and measurement procedures. In *Foundations of Measurement: The Theory of Representability and the Nature of Numbers*. Proceedings of the Conference in honor of Herman von Helmholtz and R. Duncan Luce (p. 7). Kiel, Germany: University of Kiel.
- Dzhafarov, E.N., Sekuler, R., & Allik, J. (1993). Detection of changes in speed and direction of motion: Reaction time analysis. *Perception and Psychophysics*, 54, 733-750.
- Dzhafarov, E.N. (1993). Grice-representability of response time distribution families. *Psychometrika*, 58, 281-314.
- Dzhafarov, E.N. (1992). Can brightness be related to luminance by a meaningful function? *Behavioral and Brain Sciences*, 15, 565-566.
- Dzhafarov, E.N. (1992). Visual kinematics III: Transformation of spatiotemporal coordinates in motion. *Journal of Mathematical Psychology*, 36, 524-546.
- Dzhafarov, E.N. (1992). Visual kinematics II: Space contraction in motion and visual velocity. *Journal of Mathematical Psychology*, 36, 498-523.
- Dzhafarov, E.N. (1992). Visual kinematics I: Visual space metric in visual motion. *Journal of Mathematical Psychology*, 36, 471-497.
- Dzhafarov, E.N. (1992). The structure of simple reaction time to step-function signals. *Journal of Mathematical Psychology*, 36, 235-268.
- Allik, J., Dzhafarov, E.N., Houtsmä, A.J.M., Ross, J., & Versfeld, N.J. (1990). Pitch motion with random chord sequences. *Perception & Psychophysics*, 46, 513-527.

- Allik, J., & Dzhafarov, E.N. (1984). Motion direction identification in random cinematograms: A general model. *Journal of Experimental Psychology: Human Perception and Performance*, 10, 378-393.
- Allik, J., & Dzhafarov, E.N. (1984). Reaction time to motion onset: Local dispersion model analysis. *Vision Research*, 24, 99-101.
- Dzhafarov, E.N., & Allik, J. (1984). The length contraction in motion phenomenon. *Physiologia Bohemoslovackica*, 33, 524-525.
- Allik, J., & Dzhafarov, E.N. (1984). Local dispersion model for visual motion detection. *Physiologia Bohemoslovackica*, 33, 515.
- Allik, J., Dzhafarov, E.N., & Ross, J. (1984). The identification of melody direction in random chord sequences (pp. 5-9). In M. Rauk (Ed.), *Computational Models in Hearing and Vision*. Tallin: Estonian Academy of Sciences.
- Dzhafarov, E.N., Allik, J., & Kapustin, V.L. (1984). Length contraction in motion: The structure of the seen space-time (pp. 85-90). In M. Rauk (Ed.), *Computational Models in Hearing and Vision*. Tallin: Estonian Academy of Sciences.
- Dzhafarov, E.N., & Allik, J. (1984). A general theory of motion detection. In M. Rauk (Ed.), *Computational Models in Hearing and Vision* (pp. 77-84). Tallin: Estonian Academy of Sciences.
- Dzhafarov, E.N. (1983). Signal detectability. In M.B. Mikhalevskaja & C. A. Izmailov (Eds.), *Practicum on Experimental Psychology and Psychological Measurements* (pp. 65-100). Moscow: Moscow State University Press (in Russian).
- Dzhafarov, E.N., Allik, J., & Linde, N.D. (1983). Detection of oscillatory movement. *Voprosy Psichologii*, 3, 90-96 (in Russian).
- Allik, J., Dzhafarov, E.N., & Rauk, M. (1982). Position discrimination may be better than detection. *Vision Research*, 22, 1079-1081.
- Dzhafarov, E.N. (1982). General model for visual motion detection. *Studia Psychologica*, 24, 193-198.
- Dzhafarov, E.N. (1982). Scaling of spatial frequency by means of a modified fractionation method. *Psikhologicheskii Zhurnal*, 3, 71-76 (in Russian).
- Dzhafarov, E.N., & Allik, J. (1981). Selective visual adaptation and the visual feature model. In J.M. Zabrodin (Ed.), *Psychological Studies in Perception and Memory* (pp. 77-92). Moscow: Nauka (in Russian).

- Dzhafarov, E.N., & Allik, J. (1981). Multiple-feature structures in psychophysical tasks. In A. Kashin (Ed.), *Problems of Psychophysics and Differential Psychophysiology* (pp. 33-55). Kazan: Kazan University Press (in Russian).
- Dzhafarov, E.N., Allik, J., Linde, N.D., & Pyastolov, V.K. (1981). Comparative analysis of the frequency-amplitude threshold functions for real and apparent motion. *Psikhologicheskii Zhurnal*, 2, 73-78 (in Russian).
- Dzhafarov, E.N., & Allik, J. (1980). "Sign-side paradox" for apparent motion detection. *Proceedings of the XXII International Congress of Psychology*, 2, 615, Leipzig.
- Dzhafarov, E.N. (1979). *Elementary Constituents of Visual Percept*. Moscow: Moscow State University Press, 28 pp. (in Russian).
- Velichkovskii, B.M., & Dzhafarov, E.N. (1978). Visual constancy research abroad: A review. *Voprosy Psikhologii*, 1, 162-164 (in Russian).
- Dzhafarov, E.N. (1977). The structure of the process of detection. *Vestnik MGU: Seriya Psikhologia*, 4, 52-65 (in Russian).
- Dzhafarov, E.N. (1976). Reply: On the structure of perceptogenesis. In A.N. Leontiev (Ed.), *Psychological Research* (pp. 138-142). Moscow: Moscow State University Press (in Russian).
- Dzhafarov, E.N. (1976). On the structure of perceptogenesis. In A.N. Leontiev (Ed.), *Psychological Research* (pp. 76-85). Moscow: Moscow State University Press (in Russian).
- Allik, J., Dzhafarov, E.N., Tepp, M., & Livshits, A. (1976). Mechanisms of motion perception in human visual system. In V.D. Glezer (Ed.), *Information processing in the visual system* (pp. 13-17). Leningrad: Nauka.
- Dzhafarov, E.N. (1974). The problem of microgenesis of perception. In *Problems of Theoretical and Applied Psychology* (pp. 20-21). Leningrad: Leningrad University Press (in Russian).
- Dzhafarov, E.N. (1974). Structural analysis of action. In M.V. Vovchik-Blakita (Ed.) *Contemporary Theoretical Problems and Applications of Psychology* (pp. 93-94). Kiev: Kiev University Press (in Russian).
- Leontiev, A.N., & Dzhafarov, E.N. (1973). Mathematical modeling in psychology. *Voprosy psikhologii*, 3, 3-14 (in Russian; translated and published in English in *Soviet Psychology*, 1973/74, 12, 3-22.)

Books

G. Ashby, H. Colonius, E.N. Dzhafarov (Eds), *New Handbook of Mathematical Psychology*, vol. 3. Cambridge, UK: Cambridge University Press, 2023.

W.H. Batchelder, H. Colonius, E.N. Dzhafarov (Eds), *New Handbook of Mathematical Psychology*, vol. 2. Cambridge, UK: Cambridge University Press, 2018.

W.H. Batchelder, H. Colonius, E.N. Dzhafarov, & J. Myung (Eds), *New Handbook of Mathematical Psychology*, vol. 1. Cambridge, UK: Cambridge University Press, 2016.

E.N. Dzhafarov & J.S. Jordan, R. Zhang, & V.H. Cervantes (Eds), *Contextuality from Quantum Physics to Psychology*. New Jersey: World Scientific, 2015.

E.N. Dzhafarov & L. Perry (Eds), *Descriptive and Normative Approaches to Human Behavior*. New Jersey: World Scientific, 2011.

H. Colonius & E.N. Dzhafarov (Eds.), *Measurement and Representation of Sensations*. Mahwah, NJ: Erlbaum, 2006.