

# Ahti-Veikko J. Pietarinen

PhD, Professor

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Born 4 November 1971, Espoo, Finland.  
Citizenship: Finnish.  
Home addr: Laivurink.41b15, FIN-00150 Helsinki, Finland.

## Present Appointment

Full Professor in Theoretical Philosophy, Department of Philosophy, University of Helsinki, Finland,  
8/08–7/09.

## Academic Formation

Qualified for Full Professorship in Theoretical Philosophy	University of Jyväskylä, Finland	12/2005
Adjunct Professor, Theoretical Philosophy	University of Helsinki, Finland	9/2004–
Adjunct Professor, Theoretical Philosophy	University of Turku, Finland	5/2004–
PhD, Philosophy ( <i>Semantic Games in Logic and Language</i> , SV: G.Sandu)	University of Helsinki	3/2002
MSc, Computer Science ( <i>Epistemic Logic in Knowledge Representation, distinction</i> )	University of Turku	9/1997
MSc, Philosophy (subsidiary) ( <i>IF Logic and Liar's Paradoxes</i> )	University of Turku	9/1997

## Research Interests

*Area of Specialisation:* Core Analytic Philosophy: Logic; Philosophy of Logic; Philosophy of Language; Philosophy of Mathematics. History of American Philosophy; Peirce; Pragmatism.

*Area of Competence:* Metaphysics; Philosophy of Science; Philosophy of Mind; Cognitive and Computing Sciences; History of Analytic Philosophy; Wittgenstein.

## Previous Appointments, incl. Visiting Appointments

1/2006–8/2008, University Lecturer (Associate Professor), Department of Philosophy, University of Helsinki.

9/2005–12/2005, *Fulbright Visiting Scholar*, The Peirce Edition Project, Institute for American Thought, Indiana University–Purdue University Indianapolis (IUPUI).

8/2003–8/2005, *Post-Doctoral Fellow*, (*Logic and Game Theory*, Principal Investigator: Dr Pietarinen; *Game-Theoretical Semantics and Its Applications*, Principal Investigator: Prof. Jaakko Hintikka).

## Personal Research Grants and Awards (total 376.000 euros)

2008: University of Helsinki (Research/Teaching Visit, Renmin U.; Wuhan U.; Fudan U.), 4.400  
2007d: Jenny and Antti Wihuri Foundation (*Director, Peirce's Correspondence*), 18.000  
2007c: University of Helsinki (Research/Teaching Visit, Peking University), 1.800  
2007b: University of Helsinki (R/T Visit, São Paulo University), 1.600  
2007a: Academy of Finland (Conference Organisation), 3.800  
2006: Academy of Finland (R/T Visit, CASS, Beijing), 3.000  
1/06–12/08: Univ. of Helsinki 'Excellence in Research' Funds (*Director, Peirce*), 120.000  
2005c: Jenny and Antti Wihuri Foundation (Personal Research Grant), 10.000  
2005b: ASLA-Fulbright Visiting Scholar (PRG), 10.000

2005a: Finnish Cultural Foundation (*Director, Peirce's Correspondence*), 18.000  
 2004b: Centre for Mobility CIMO (R/T Visit, Vrije Universiteit Brussels, Belgium), 800  
 2004a: Academy of Finland (R/T Visit, Hungarian Academy of Sciences), 700  
 8/03–7/05: Academy of Finland, Post-Doctoral Fellow (*Director, Logic and Games*), 100.000  
 2003d: Charles S. Peirce Society Essay Contest, First Prize, 800  
 2003c: Finnish–Danish Cultural Foundation (Travel Grant), 500  
 2003b: Academy of Finland (R/T Visit, Hungarian Academy of Sciences), 630  
 2003a: Academy of Finland (R/T Visit, Lille 3, France), 9.100  
 2002d: Ella and Georg Ehrnrooth Foundation (Personal Research Grant), 8.000  
 2002c: Finnish Cultural Foundation (Monograph Work), 3.500  
 2002b: Ministry of Education Finland (Monograph Work), 1.000  
 2002a: University of Helsinki (Dissertation Grant), 3.000  
 1/2002–10/2002, 1/2003–6/2003: Academy of Finland (Post-Doctoral Grant)  
 2001: The Alfred Kordelin Foundation (Travel Grant), 1.000  
 2000: University of Helsinki (Travel Grant), 1.000  
 1998c: The Jenny and Antti Wihuri Foundation (PRG), 5.000  
 1998b: The Osk. Öflund Foundation (PRG), 5.000  
 1998a: The Helsingin Sanomat Centenary Foundation (PRG), 3.400  
 1997b: The Finnish Cultural Foundation (PRG), 3.700  
 1997a: The Osk. Huttunen Foundation 3-Year Fellowship (10/1998–9/2001), 36.000

### Directing of Research Projects

During the last three years, I have directed and been financially responsible for several research projects:

- *The Helsinki Peirce Research Centre, Director, 2006–.*  
 The Helsinki Peirce Research Centre is the home of Peirce Studies at the University of Helsinki. Current activities include several research projects, and the guest lectures and seminars of the Helsinki Metaphysical Club. Post-docs, doctoral students and research assistants work for the project. [www.helsinki.fi/peirce/](http://www.helsinki.fi/peirce/)
- *Peirce's Pragmatistic Philosophy and Its Applications, Director, 1/2006–12/2008.*  
 The objective of this University of Helsinki Funded 'Excellence in Research' project is to study Peirce's pragmatism and his logical and semeiotic innovations with an emphasis on their application in different branches of science.
- *Scientific and Philosophical Correspondence of C. S. Peirce, Director, 2005–2008.*  
 The aim of this project is to study, edit and publish Peirce's philosophical and scientific correspondence, and to develop software and practices specifically suited for editing Peirce's manuscripts. The project is funded by the Finnish Cultural Foundation (2005-6) and the Jenny and Antti Wihuri Foundation (2007-8).
- *Pragmatic Theories of Meaning, Director, 2006.*  
 This project was funded by the Jenny and Antti Wihuri Foundation.
- *Peirce's Manuscripts on Logic, 2005.*  
 This project was sponsored by the Fulbright Bilateral Commission.
- *Logic and Game Theory, Director, 2003–2005.*  
 This post-doctoral project was funded by the Academy of Finland.

### Teaching Experience

*Courses and Seminars:*

*Introduction to Metaphysics*, Undergraduate Course, University of Helsinki, 2006–09  
*Logic I*, Intermediate Course, University of Helsinki, 2005–09  
*Logic II*, Intermediate/Advanced Course, University of Helsinki, 2005–09  
*Master's Seminar in Theoretical Philosophy*, 2008–09  
*Pro-seminars I & II in Theoretical Philosophy*, Intermediate Seminar, University of Helsinki, 2006–08  
*Peirce's Logic and Philosophy*, Intermediate Course, University of Helsinki, 2004–09  
*Philosophy of Mathematics*, Graduate Seminar, University of Helsinki, 2008–09  
*Games and Linguistic Meaning*, Graduate Course, University of Tartu, 2007

*Diagrammatic Reasoning*, Peking University, 2007  
*Advanced Topics in Peirce's Logic*, Graduate Course, University of Helsinki, 2006  
*Introduction to Independence-friendly Logic*, Graduate Course, ESSLLI 2004, Université Henri Poincaré, Nancy, 2004  
*Metaphysical Club Seminar*, University of Helsinki, 2004–.

**Graduate Supervision:**

JÄRVILEHTO, L., PhD Candidate, University of Jyväskylä, 2006–  
KANNISTO, T., PhD Candidate, University of Tampere, 2006–  
OJALEHTO, L., PhD Candidate, University of Helsinki, 2006–  
STYRMAN, A., PhD Candidate, University of Helsinki, 2008–  
Supervised eight Master's Theses 2006–08, and currently supervising five Master's Theses. In 2006–08 supervised 28 Bachelor's Theses.

**Research Collaboration and Research & Teaching Visits Abroad**

Research projects, scientific and scholarly collaboration and major research and teaching visits during the last four years (in alphabetic order):

JEAN PAUL VAN BENDEGEM, Professor, Dean, Free University Brussels, Centre for Logic and Philosophy of Science. Collaboration on *Significs and Early Analytic Philosophy*. Research and teaching visits 5/2004, 3/2007. Funded by CIMO Finland and the Flemish Ministry of Education.

RICARDO BIANCONI, Professor, Universidade de São Paulo, Department of Mathematics. Collaboration on *Philosophical Logic*. Research and teaching visit 11/2007. Funded by the University of Helsinki International Collaboration Funds.

ROBIN CLARK, Professor, University of Pennsylvania. Collaboration on *Game-Theoretic Semantics and Natural-Language Pragmatics*, 1/2006–5/2006. Funded by the National Science Foundation and the University of Pennsylvania, Department of Linguistics.

DANIEL COHNITZ, Professor, University of Tartu. Collaboration on *Philosophy of Language*. Research and teaching visit 8/2007. Funded by the University of Tartu and NordForsk.

RISTO HILPINEN, Professor, University of Miami Coral Gables. Collaboration of *Peirce's Pragmaticism*. Research and teaching visit made in 11/2005. Funded by the University of Miami and the Fulbright Bilateral Commission.

JAAKKO HINTIKKA, Professor, Boston University, Department of Philosophy. Director of the Academy of Finland research project *Game-theoretic Semantics and Its Applications* in 2002–2003. Visit 11/2005.

NATHAN HOUSER, Professor, Director, Institute of American Thought and Peirce Edition Project, Indiana University-IUPUI. Joint Research Projects (*Peirce's Logic and his Manuscripts*; *Peirce Correspondence Project*). Research visit 9/2005–12/2005, 8/2008. Funded by the Finnish Cultural Foundation and the ASLA-Fulbright Bilateral Commission.

LEE, CHUNG MIN, Professor, Programme Chair, Institute for Cognitive Science, Seoul National University. Funded by the University of Helsinki, International Collaboration Funds.

MATHIEU MARION, Professor, Canada Chair of Logic and Philosophy, Université Québec à Montréal, collaboration on *Game Semantics*; François Latraverse, Professor, UQAM, collaboration of Volume 7 of the Chronological Edition of the Writings of Charles S. Peirce. Research visit 11/2005. Funded by UQAM.

KRISTOF NYÍRI, Professor, Director, Philosophical Institute, Hungarian Academy of Sciences, *Communications in the 21st Century: The Relevance of C. S. Peirce*. Research visits in 2003–2004. Funded by the Academy of Finland and the Hungarian Academy of Sciences.

PETER PAGIN, Professor, University of Stockholm. Collaboration on the NOS-H Centre of Excellence initiative on *Logic and Language*. Research visit 6/2005. Funded by the University of Stockholm.

WOOSUK PARK, Professor, Korea Institute of Science and Technology, 8/2008. World Class University Project 'Mathematical Philosophy', Korea.

SUSAN PETRILLI, Professor, University of Bari, Department of Linguistics and Literature. Collaboration on *Welby's Significs*. Visit 6/2008. Funded by the University of Bari & Helsinki.

SHAHID RAHMAN, Professor, University of Lille 3, Department of Philosophy. Scholarly collaboration on *Dialogues*. Member of U.M.R. Savoirs et Textes-CNRS 8519. Funded by CNRS and the Academy of Finland.

GABRIEL SANDU, Professor, Institut d'Histoire et de Philosophie des sciences et des techniques IHPST, CNRS Paris I. Collaboration with the EU 7th Framework *Logical Modelling*; EUROCORES LogICCC (Logic in Interaction, Communication, Computing, Cognition).

PING TIAN, Dr, Beijing Normal University, Collaboration on *Pragmaticism*. Research and teaching visit 3/2008. Funded by the University of Helsinki International Collaboration Funds.

FREDERIK STJERNFELT, Dr, Copenhagen Pedagogical University. Collaboration on the software engineering project to develop a *Visual Logic Teaching Package on Peirce's Existential Graphs*. Research visits 8/2006, 11/2007, 2/2008. Funded by University of Helsinki, Copenhagen and Aarhus.

LIU XINWEN, Dr, Chinese Academy of Social Sciences, Institute of Philosophy. Collaboration on *Peirce's Existential Graphs*. Research and teaching visit 10/2006. Funded by the Academy of Finland and CASS Bilateral Agreement Grant.

FERNANDO ZALAMEA, Professor, University of Colombia, Department of Mathematics. Scholarly collaboration on Existential Graphs and editing Peirce's *Logic Notebook*. Funding Pending.

ZOU BEIHAI, Professor, Peking University, Department of Philosophy. Collaboration on *Philosophical Logic*. Research and teaching visit 8/2007. Funded by the University of Helsinki International Collaboration Funds.

ZHU ZHIFANG, Professor, Wuhan University, Collaboration on *Semiotics*. Research and teaching visit 2/2009. Funded by the University of Helsinki International Collaboration Funds.

Fudan University, Collaboration on *Pragmatism*. Research and teaching visit 3/2009. Funded by the University of Helsinki International Collaboration Funds.

## Scientific and Professional Activities

Consulting Board Membership in:

*Journals:*

*Erkenntnis*, 2008–

*Pragmatics & Cognition*, 2008–

*Philosophical Frontiers*, 2008–

*The Baltic International Yearbook of Cognition, Logic and Communication*, Editorial Board, 2008–

*Semiotica*, 2007–

*Journal of Philosophical Logic*, 2007–

*History and Philosophy of Logic*, 2007

*Studia Logica*, 2007–

*Medicine, Healthcare & Philosophy*, 2007

*SATS: Nordic Journal of Philosophy*, 2007

*Transactions of the Charles S. Peirce Society*, 2006–

*Stanford Encyclopedia of Philosophy*, 2006–

*Acta Philosophica Fennica*, 2005–

*Philosophia Scientiae*, 2005

*Ajatus: Yearbook of the Finnish Philosophical Society*, 2004

*Journal of Cognitive Systems Research*, 2002–2003

*Nordic Journal of Computing*, 2002

*Group Decisions and Negotiations*, 2002

*Synthese*, 2001–

*Nordic Journal of Philosophical Logic*, 2000–01

*Publishers:*

*Springer*, 2005–  
*Elsevier Science*, 2005–  
*John Benjamins Publishing*, 2007–

Conferences:

*ESSLLI Summer Schools*, 2002–06  
*Cognitive Science Society*, 2005–06.

Program Committee Member:

*International Conference on Cognitive Science*, Campinas, 2009  
*International Conference on Applying Peirce*, 2007, University of Helsinki  
*First Int. Pragmatic Web Conference*, 2006, Stuttgart, Germany  
*First Int. Workshop in Web Computing in Cyberworlds*, 2004, Tokyo, Japan  
*Prague 2004 Int. Colloquium–Logic, Games and Philosophy: Foundational Perspectives*, 2004, Czech Academy of Sciences, Prague, Czech Republic.

Main Organiser:

2007: *International Conference on Applying Peirce*, Chair, University of Helsinki, in collaboration with the *9th World Congress of Semiotics*.  
2004: *Prague 2004 Int. Coll.–Logic, Games and Philosophy: Foundational Perspectives*, Co-Chair.  
8/1999–12/2001: The *13th European Summer School in Logic, Language and Information (ESSLLI'01)*, Secretary to the Organising Committee, University of Helsinki (8/2001). Demonstrated fund-raising success (278.000 euros) from Ministry of Education; EU (IST-FET); Academy of Finland; NorFA; Finnish Cultural Foundation; EACL; FoLLI; Nokia Oyj; Lingsoft Oyj; Conexor Oyj, plus other learned societies and corporate sponsors.

Scientific Memberships:

Charles S. Peirce Society, Sustaining Member, 2002–  
European Association for Logic, Language and Information (FoLLI), 1998–  
Finnish Philosophical Society (SFY), 1999–  
British Logic Colloquium (BLC), 1999–01  
American Philosophical Association (APA), 2000–  
Association for Symbolic Logic, (ASL), 2000–2002  
European Society for Analytic Philosophy (ESAP), 2002–  
Finnish Science Studies Society, 2004–  
Cognitive Science Society, 2005–  
History of Early Analytic Philosophy Society (HEAPS), 2005–  
Society for the Advancement of American Philosophy, 2007–

Administrative Service:

YT-representative, Faculty of Arts, Univ. of Helsinki, 2007–09.  
Dept. of Philosophy Faculty Board, 2007–09.  
Selection Committee for Pedagogy Degrees, Faculty of Arts, Univ. Helsinki, 2006–09.  
Teaching Development Committee, Department of Philosophy, Univ. of Helsinki, 2007–09.  
Admissions Representative, Dept. Philosophy, Univ. Helsinki, 2006–2008.  
Coordinator, Departmental Research Seminar, 2004–08.

Invited Talks (IT) and Conference Presentations (> 100 in total):

Dewey (IT, Opole, 6/09)	Peirce-Schiller (IT, Lodz, 9/08)
Significs (IT, Bari, 4/09)	Diagrammatic Logic of Commands (Diagrams, 9/08)
Semiotics (IT, Wuhan, 2/09)	Iconic Logic of Metaphors (Seoul, 8/08)
One vs. many world philosophers (IT, Helsinki, 1/09)	Why Pragmatism is neither Structuralism nor Fictionalism (Seoul, 8/08)
Esthetic interpretants (Nanjing, 11/08)	Pragmatism's methodology rethought (IT, Seoul, 8/08)
Logic of Cognition (IT, Guangzhou, 11/08)	Philosophy of Ludics (IT, Paris, 3/08)
World lines and imperfect information (IT, Beijing, 11/08)	Game-theoretic semantics (IT, Renmin U., Beijing, 2/08)
Formal methods for cognitive science (IT, Seoul, 10/08)	Epistemic logic (IT, Renmin U., Beijing, 2/08)
Implicit vs. explicit (ICAI'08, Beijing, 10/08)	Signs & Diagrams (IT, Aarhus, 2/08)

Game-theoretic models of linguistic contexts (IT, Lille 3, 1/08)

Fixing and revising beliefs (SFY, 1/08)

Logic, language and games (IT, Jena 1/08)

To Peirce Hintikka's thoughts (IT, Copenhagen 11/07)

Comments on Hookway (IT, São Paulo 11/07)

Logic in pragmatism (IT, Babes-Bolyai 9/07; IT, São Paulo 11/07; U Helsinki 6/08)

Diagrams (IT, Peking U, 8/07; São Paulo 11/07)

Three stages of development in Peirce's logic (Xi'an 8/07)

Why is the normativity of logic based on rules? (IT, Opole 6/07)

Editing Peirce (IT, U Helsinki 6/07)

Women in semiotics: Ladd-Franklin and Welby (IT, Helsinki 6/07)

Challenges for existential graphs (U Helsinki 6/07)

Pragmaticism as an anti-foundationalist philosophy of mathematics (Brussels, 3/07; Beijing 8/07)

Survey of diagrammatic logics II (IT, Helsinki 3/07)

Logic in pictures (Tampere 1/07)

Practices in Peirce's theory of meaning (IT, Helsinki 12/06)

Survey of diagrammatic logics I (IT, U Helsinki 11/06)

On the logic of Peirce (IT, Beijing 10/06)

Künne on Frege (IT, U Hamburg 8/06)

Peirce and Deacon on meaning and the evolution of language (IT, Copenhagen 8/06)

Logic of the image (IT, Peirce and Image, Urbino 6/2006)

Logic of abduction (IT, Abduction Conf, Lisboa 5/06)

Significs, pragmatism, and the origins of analytic philosophy (Granada 4/06)

Proof of pragmaticism (IT, U Miami, 11/2005)

Graphs, games, and pragmaticism (IT, UQAM 11/05; Peirce Edition Project, Indianapolis 12/05)

IF logic and game-theoretic semantics (IT, UQAM 11/05)

Alexander B. Johnson as a precursor of pragmatic theories of meaning (ICHL'S'05, Urbana 9/05)

Logica utens vs. logica docens: origins and contemporary validity (ESPP'05, Lund 8/05)

Mental models and logical diagrams (ESPP'05, Lund 8/05)

Diagrams, signs, cognition: Perspectives on Peirce (ESPP'05, Lund 8/05)

Relevance theory through pragmatic theories of meaning (CogSci'05, Stresa 7/05)

Multimodality in logic and in cognition (Prag'05, Garda 7/05)

Logic and mental spaces (SCL'05, Trondheim 6/05, Stockholm 6/05, Helsinki 6/05)

Getting closer to iconic logic (E-CAP'05, Lund 6/05)

History of semantics in Finland (KTP'05)

Significs and early analytic philosophy (IT, APA'05, Chicago 4/05)

Moving pictures of thought (IT, U Helsinki 1/05)

Life of language (SFY'02, U Turku 1/05)

Peirce's semeiotic and contemporary science (IT, SP'04, Helsinki 12/04)

Towards the history of logic and games (IT, LGP'04, Prague 9/04)

Significs and the origins of analytic philosophy (SIFA'04, Genoa 9/04)

Epistemic logics of imperfect information for multi-agent communication (IT, LCMAS'04, Nancy 8/04; LiCS'04, Turku 7/04)

Tutorial on independence-friendly logic (IT, VUBrussels 5/04)

Evolutionary game-theoretic semantics and its foundational status (EELC'04, VUBrussels 5/04)

Early cognitive science: a challenge to analytic philosophy? (XV IPS, Helsinki 5/04)

Interdisciplinarity and Peirce's classification of the sciences (IRM'04, Budapest 5/04)

Independence-friendly existential graphs (IT, Tallinn Tech 4/04)

Peirce's diagrammatic logic in IF perspective (Diagrams'04, U Cambridge 3/04)

Compositionality, relevance, and Peirce's logic of existential graphs (CoCoCo'04, U Düsseldorf 2/04)

Negation in IF logic (SFY'04, U Helsinki 1/04)

Sphere semantics for aspect (SCL'04, U Helsinki 1/04)

Peirce's magic lantern: moving pictures of thought (IT, APA Eastern Division, Washington D.C. 12/03)

Wittgenstein on 'one of the most fundamental language games' (IWS'03, Kirchberg 8/03)

Historical and Peircean notions of pragmatics (ICHL'03, U Copenhagen 8/03)

Reversed interactive epistemology (WCP'03, Istanbul 8/03)

Agenda cognitive linguistics: (ICCL'03, Logroño 7/03)

Diagrammatic logic in IF perspective (IT, UCLA-Helsinki'03, Helsinki 7/03)

Moving pictures of thought (IT, Helsinki 2/03)

Peirce's concept of communication and its contemporary relevance (NRAP'03, Hungarian Acad of Sciences 11/03)

Independence-friendly logic and incomplete information (PILM02, Nancy 10/02)

Diagrammatic logic and game-playing (VRI'02, Liverpool 9/02)

Logic, language-games and ludics: Some Wittgensteinian themes in the foundations of logic and computation (LC'02 8/02)

Inner and outer knowledge: the case for epistemic logic (ECAP IV, Lund 6/02)

Aspect and strategic meaning (KTP'02, Helsinki 5/02)

Philosophical logic and the revolution in informatics (IT, Societas Philosophica Fennica, Helsinki 4/02)

Peirce's game-theoretic ideas in logic (IT, Metaphysical Club, Helsinki, 2/02)

Semantic games in logic and language (Helsinki 1/02)

Varieties of IFing (ESSLLI'01, Helsinki 8/01)

Games for generalised quantifiers (SuBV, Univ. Amsterdam 12/00)

Some remarks on games logic plays (LC'00, Univ. Sorbonne 7/00)

Informational independence in epistemic logic (LMPS'99, Cracow 8/99)

Imperfect information in epistemic logic (ESSLLI'98, Saarbrücken 8/98)

## Further Particulars

Listed 9/2008 in *Marquis Who's Who in the World 2009–10* and 9/2007 in *Marquis Who's Who in Science and Engineering 2008–09*, New Providence: Marquis.

10/2004: Listed in the *Who's Who in Logic Master List: International Directory of Logicians* (Woods, J. & Gabbay, D., eds, Elsevier Science), to app. 2008.

First Prize in The Essay Contest of the Charles S. Peirce Society, 2003.

*Language Skills*: Finnish (native); English (reading: excellent, writing: excellent; speaking: excellent); Swedish (good); German (fair); Latin (fair); Chinese (learning). Computer: L<sup>A</sup>T<sub>E</sub>X, Prolog; Pascal; HTML/XML; Lisp; CG.

*Erdős Number*: 4 (Sandu to Väänänen to Shelah to Erdős).

## Accumulative Summary of Current Research

2008– Metaphors; Esthetic Meaning; Structuralism; Fictionalism;

2006– Pragmatic Theories of Meaning; Abduction; Philosophy of Mathematics; Metaphysics;

2004– Relevance Theory; History of Analytic Philosophy, History of Semantics/Pragmatics; Significs;

2002– Pragmatism; Logic and Neuroscience; Cognitive Science and Phenomenology, Diagrams;

2000– Quantum Theory and Logic; History and Philosophy of Game Theory; Peirce; Theory of Signs; Wittgenstein; Diagrammatic Logics;

1998– Logic (Philosophical, IF Logic, Modal, Epistemic etc.); Game-Theoretic Semantics; Propositional Attitudes; Possible-Worlds Semantics; Knowledge Representation and AI; Game Theories in Science; Bounded Rationality; Semantics and Pragmatics.

## References

1. *Professor Jaakko Hintikka*  
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