

## CURRICULUM VITAE

Raimo Heikki Tuomela

Place and date of birth: Helsinki, October 9, 1940

Home page: <http://www.valt.helsinki.fi/staff/tuomela/>

### *Academic training:*

Matriculation examination, Helsingin lyseo, 1959

Candidate of the Humanities (B.A.), University of Helsinki, 1962

Candidate of Philosophy (M.A.), University of Helsinki, 1965; major: Psychology

Licentiate of Philosophy, 1966; major: Psychology

Doctor's thesis (in theoretical philosophy) debated in public at the University of Helsinki, Nov. 30, 1968

Doctor of Philosophy, University of Helsinki, 1969

Graduate studies at Stanford University (U.S.A.), 1966 - 1967, 1969

Doctor of Philosophy, Stanford University, 1969

### *Positions held:*

Research assistant at the psychological department of the Institute for Occupational Health, March 12, 1962 - 31.8.1962

Assistant in psychology, Academy of Åbo, Jan. 1, - June 30, 1964

Temporary half-day assistant in practical philosophy, University of Helsinki, Jan. 1, 1965 - June 30, 1965

Senior assistant in practical philosophy, University of Helsinki, Sept. 1, 1967 - Jan. 22, 1971

Acting professor of philosophy, University of Jyväskylä, Aug. 1, 1969 - July 31, 1970 (during Jan. 1, 1970 - July 31, 1970 part-time)

Docent of the methodology of social sciences, University of Turku, 1969 - 1973

Acting professor of practical philosophy, especially the methodology of social sciences, University of Helsinki, 1970

Appointed permanently to full professor of practical philosophy, especially the methodology of social sciences, University of Helsinki, 22. 1.1971 (position held until 1.11.2008)

Appointed as Academy Professor (research professor) at the Academy of Finland for a period of five years beginning August 1, 1995

Fellow of the Helsinki Collegium for Advanced Studies (1.8. 2001-31.7. 2002, 1.8. 2003-31.7. 2004)

Permanent visiting professor (lehrbeauftragter Professor) at the department of philosophy of the University of Munich, Munich, Germany, 2005-

### *Administrative experience*

Head of the Department of Practical Philosophy (viz. Social and Moral Philosophy), University of Helsinki, 1979-1991

Member of the Council of the Faculty of the Social Sciences, University of Helsinki, 1970-1991

Member of the Senate of the University of Helsinki, 1977-1991

Member of the Steering Board of Finnish Centre of Excellence in the Philosophy of Social Sciences

President of the International Society of Social Ontology, 2012—

*Additional academic activities:*

Editor-in-Chief of the academic book series "Studies in the Philosophy of Sociality" (Springer Publishing Co.)

Member of the board of consulting editors of the following publications:

- The Journal of Ethics
- Episteme (monograph series)
- Methodos
- Cambridge Encyclopedia of Philosophy
- Mind and Society (Associate Editor)
- Refereeing for the above and other scholarly journals as well as for various funds and foundations (e.g. the National Science Foundation)

*Memberships in learned societies:*

Philosophy of Science Association

British Society for the Philosophy of Science

American Philosophical Association

International Society of Social Ontology

*Research Grants, Awards, etc.*

Research grants from the Academy of Finland esp. in 1974 (1 yr.), 1976 (1/2 yr.), 1981 (1/2 yr.), 1985-86 (1 yr.), 1990-1991 (1 yr.), 2000-2001 (1 yr.)

Killam post doctoral fellowship (Canada Council), McGill University, Montreal, 1971 - 1972

Visiting fellow, Department of Philosophy, Princeton University, Fall 1974

Member of the Finnish Academy of Science and Letters, 1983

Humboldt *Forschungspreis* für ausländische Geisteswissenschaftler (Humboldt Research Award Winner), awarded in recognition of achievements in research by Alexander von Humboldt Foundation (Germany), Dec. 7, 1992

Listed in several biographic encyclopedias, such as "Who's Who in the World", "Men of Achievement", etc.; mentioned as one of "the leading figures in Finnish research today" in "Facts about Finland" (Otava, 1991)

Suomen valkoisen ruusun I luokan ritarimerkki (Finnish White Rose First Class Medal of Honor), Dec. 6, 1992

*Fields of Research*

Main current field of research: philosophy of the social sciences, especially the general theory of social action.

Secondary fields of research: 1) philosophical foundations of cognitive science, 2) general philosophy of science, 3) metaphysics

*Scholarly Visits and Lectures, and Related Activities :*

- Scandinavian congress of Psychology at Jyväskylä, 1965
- International symposium "Confirmation and Information", Helsinki, 1965
- Scandinavian meeting of Philosophy, Turku, 1966
- The 3rd International Congress in Logic, Methodology and Philosophy of Science, Amsterdam, 1967
- Symposium on the Construction of Models, Warsaw, 1968
- XIV World Congress of Philosophy, Vienna, 1968
- 1st Scandinavian Congress in Logic, Turku, 1968
- The 4th International Congress in Logic, Methodology and Philosophy of Science, Bucharest, 1971
- First meeting of the Society for Exact Philosophy, Montreal, 1971
- Bertrand Russell Colloquium, Montreal, 1972
- The 3rd Scandinavian meeting in Logic, Uppsala, 1973
- Invited series of lectures (by Societa' Italiana di Logica e Filosofia delle Scienze) the logic of induction at the meeting of the Summer School in Philosophy of Science in Chiavari, Italy, 1973
- XV World Congress in Philosophy, Varna, 1973
- Invited lecture at the University of Florence, 1974
- Conference on Formal Methods in Empirical Sciences, Warsaw, 1974
- Lectures at the following universities in USA:  
The University of Kansas, Lawrence, Kansas, 1974  
Notre Dame University, Notre Dame, Indiana, 1974 (biannual meeting of the Philosophy of Science Association) 1974  
Boston University, Boston, 1974  
University of Maryland, College Park, Maryland, 1974
- V International Congress in Logic, Methodology and Philosophy of Science, London, Ontario, 1975
- Invited chairman, section of the philosophy of social sciences, biannual meeting of the Philosophy of Science Association, Chicago, 1976
- Distinguished visitor, Center for Advanced Study in theoretical psychology, Edmonton, Alberta, 1976
- Invited lecturer at the Department of Philosophy, University of Aarhus, 1977
- Invited participant at the conference of applied inductive logic in Oxford, 1978
- Conference "Scientific Discovery", Reno, 1978
- VI International Congress in Logic, Methodology and Philosophy of Science, Hanover, 1979
- The 2nd Finnish-Soviet symposium on logic, Moscow, 1979
- Seminar "Realism and Its Implications", University of Munich, 1980
- Lecture at the Department of Philosophy, University of North Carolina at Chapel Hill, 1981
- Symposium "Action, Agency and the Will", University of North Carolina at Greensboro, 1981
- Meeting of the Society for Philosophy and Psychology, Chicago, 1981
- The Finnish-Polish-Soviet symposium on logic, Polanica Zdroj, 1981

- Symposium "Language and the Brain", McGill University, Montreal, Canada, 1982
- Lecture at the Foundations and Philosophy of Science Unit, McGill University, Montreal, 1982
- Conference on Analytical and Sociological Action Theory, West Berlin, 1982
- 13th European Mathematical Psychology Group Meeting, Bielefeld, 1982
- Meeting of the American Philosophical Association, Western Division, symposium chairman, 1983
- Lecture at the Department of Philosophy, University of Western Ontario, 1983
- VII International Congress in Logic, Methodology and Philosophy of Science, Salzburg, Austria, 1983
- Chairman of the Section on the Philosophy of Social Sciences at the 11th World Congress on Philosophy of Law and Social Philosophy, Helsinki, 1983
- Invited lecturer at the National Endowment for the Humanities Institute on Human Action, University of Nebraska, Lincoln, Summer 1984

Visiting research professor under the exchange program between the University of Wisconsin (Madison) and the University of Helsinki, fall 1984

- Invited lectures at several universities in USA, Fall 1984:

- Univ. of Wisconsin (Madison), Wayne State Univ. (Detroit), Ohio State Univ. (Columbus), Univ. of Kansas (Lawrence), Univ. of Missouri (Kansas City), Univ. of Missouri (St. Louis), Tulane University (New Orleans)

- Lecture at the 12th World Congress on Legal and Social Philosophy in Athens, August 1985

- Invited lecture at the meeting of the American Philosophical Association, Eastern Division, Washington, D.C., 1985

Visiting Scholar, Department of Philosophy, University of Arizona, Tucson, spring 1986

- Lecture at the Department of Philosophy, University of Arizona, Tucson, 1986

- Meeting of the Society for Exact Philosophy, Honolulu, 1986

- Eleventh International Wittgenstein Symposium, Kirchberg, Austria, 1986

- Three invited lectures at Oxford University (Merton College and Dept. of Exp. Psychology) on the theory of social action, Nov. 3-12, 1986

- Invited lectures at the Universities of Madrid and Oviedo (Spain), April 25-May 2, 1987

- Invited lecturer at the Thirteenth Congress on Philosophy of Law and Social Philosophy, Kobe, Japan, August 20-26, 1987

- Two invited lectures at the London School of Economics and Political Science, London, and one at the University of Warwick, Coventry, April-May, 1988

- Invited to deliver the opening talk and to act as the chairman of the section "Human Action" at the XVIII World Congress of Philosophy, Brighton, August 1988

- Invited participant and main speaker at the symposium "Philosophie und Wissenschaften", University of Bremen, Bremen, October 1988

- Invited main speaker at the symposium "Erklärung als Gespräch - Erklärung als Mensch-Maschine-Kommunikation", Technische Hochschule Darmstadt, July 3-4, 1989

- Participant of the Fourteenth Congress on Philosophy of Law and Social Philosophy, Edinburgh, August 17-23, 1989

- Invited lecture at the Department of Philosophy, University of Munich, Feb. 28, 1990

- Invited lecture at the Department of Philosophy, University of Amsterdam, May 4, 1990

Academic Visitor, Department of Philosophy, Logic and Scientific Method, The London School of Economics and Political Science, fall 1990, Winter 1996

- Lecture at the Department of Philosophy, Logic and Scientific Method, The London School of Economics and Political Science, Nov. 28, 1990

- Lecture at the Department Philosophy, Australian National University, Canberra, Jan. 24, 1991
  - IX International Congress in Logic, Methodology and Philosophy of Science, Uppsala, Sweden, August 1991
  - Fifteenth Congress on Philosophy of Law and Social Philosophy, Göttingen, Germany, August 1991
  - Invited lecture at the Department of Philosophy, Logic and Scientific Method, The London School of Economics and Political Science, May 5, 1992
  - Invited paper at the international symposium "Consciousness" in Turku, June 4-5, 1992
  - Paper at the meeting of the Society for Philosophy and Psychology, Montreal, June 7-10, 1992
  - Lectures at the University of Oregon, University of California at Davis, and Stanford University, fall 1992
  - Visiting Scholar, Department of Philosophy, Stanford University, fall 1992
  - Lectures at the University of Murcia and the Autonomous University of Madrid, Spain, Jan. 1993
  - Lectures at the University of Munich and the University of Saarbruecken, July 1993
  - Paper at the Ludwig Wittgenstein Congress on the philosophy of the cognitive sciences, Kirchberg, August 15-20, 1993
  - Chairman of the section "Philosophy of Action" at the XIX World Congress of Philosophy to be held in Moscow, August 21-28, 1993
  - Lectures at the Department of Philosophy, University of Rome, November, 1993
  - Lecture at Birkbeck College, University of London, January 1994
  - Lectures at the following German Universities: University of Munich, The Free University of Berlin, University of Tübingen, summer 1994
  - Lecture at the conference "Analyomen 2" of the German Association of Analytical Philosophy, Leipzig, Sept. 1994
  - Invited chairman at the Conference on "Moral Epistemology" held at Dartmouth College (Hanover, NH), Oct. 1994
  - Invited main speaker, Workshop on Intentional Phenomena in Context, Hamburg, March 1995
  - Invited main speaker, ICCS95-Conference, San Sebastian, Spain, May 1995
  - Lecture at the IVR95 World Congress, Bologna, Italy, June 1995
  - Invited lecture at the LMPS Congress, Florence, Italy, August 1995
  - Invited main speaker at the semiotic symposium on The Emergence of Codes and Intentions as a Basis of Sign Processes, Odense, Oct. 26-28
  - Talks in 1995 at minor symposia at the University of Helsinki, Mary & Westfield College, Univ. of London, and CNR, Rome
- 1996
- Talks in 1996 at research seminars at Mary & Westfield College and the Univ. of Munich
  - Lecture at the conference "Game Theory, Experience, Rationality" (June 12-15, Vienna)
  - Invited main speaker at the XVII German Congress of Philosophy (Leipzig, 1996)
  - Talks in 1997 at the London School of Economics, Universities of Turku and Uppsala
  - Symposium Chairman American Philosophical Association, Pacific Division, Berkeley, March, 1997
  - Invited speaker at the international Ludwig Wittgenstein conference in Kirchberg, August 1997
  - Invited speaker at the at the conference "Analyomen 3" of the German Association of Analytical Philosophy, Munich, September 1997
  - Invited speaker at the at the conference "Fact of Fiction: Perspectives on the Philosophy of Economics" held in Rotterdam, November 1997
  - Invited speaker at the Cognitive Science Workshop at Stanford University, February 1998

- Speaker at the conference "Social Ontology", State University of New York at Buffalo, April 1998
- Invited speaker at the conference "Cognitive Theory of Social Action", Torino, June 1998
- Lecture at the Department of Philosophy, Ludwig-Maximilians-Universität Muenchen, June 1998
- Two invited lectures at the XX World Congress of Philosophy, Boston, August 1998
- Lecture at the Department of Philosophy and History of Science, Cambridge University, February 1999
- Lecture at the Department of Logic, Methodology and Philosophy of Science, Ludwig-Maximilians-Universität Muenchen, June 1999
- Lecture at the workshop "Collective Intentionality", Ludwig-Maximilians-Universität Muenchen, June 1999
- Lecture at the conference on "The Nature of Institutional and Social Reality", Jyväskylä, June 1999
- Lecture at the conference "Speech Acts, Mind, and Social Reality", ZIF, Bielefeld, June 1999
- Lecture at the workshop on "Collective Intentionality", Muenchen, June 1999
- Joint lecture with Wolfgang Balzer on "Social Institutions, Norms, and Practices", Agents 2000 conference, Barcelona, June 2000
- Paper "Reasons for Action" presented at the International Wittgenstein Conference, Kirchberg, Austria, August 2000
- Invited lecture at the Department of Philosophy, Univ. of Leipzig, October, 2000
- Lecture at the workshop "Collective Intentionality II", Leipzig, October 2000
- Chairman and colloquium organizer at the biannual meeting of the American Philosophical Association, December 2000
- Lecture at the Department of Logic, Philosophy, and the Scientific Method of the London School of Economics, Feb. 2001
- Invited main speaker at the IMF conference on the interaction between artificial agents held in Toulouse, May 2001
- Lecture at the Department of Philosophy, University of Constance, May 2001
- Lecture at the Department of Philosophy, University of Salzburg, July 2001
- Invited main speaker at the symposium on Logic and Action, Uppsala University, Nov. 2001
- Two lectures at the Department of Philosophy, University of Miami, January 2002
- Lectures at the Department of Philosophy, University of Malaga, February 2002
- Invited paper and comments at the annual ISA meeting in New Orleans, March 2002
- Lecture at the Action Theory Workshop held at the Swedish Collegium for Advanced Study in the Social Sciences, Uppsala, May 2002
- Invited main speaker at the colloquium on "Action, Attitudes, and Decision" held at the University of Quebec, Trois-Rivieres, October 2002
- Lecture at the conference "Collective Intentionality III" held at Erasmus University, Rotterdam, December 2002
- Lecture at the Department of Philosophy, London School of Economics, April 2003
- Lecture at the Department of Philosophy, University of Munich, June 2003
- Lecture at the International Wittgenstein Conference, Kirchberg, Austria, August 2003
- Main speaker at the colloquium on social action at the Dept. of Philosophy, University of La Laguna, Tenerife, March 2004
- Invited speaker at the colloquium "Rationality and Commitment", Univ. of St. Gallen, May 2004
- Invited speaker at the colloquium on "Holistic Epistemology and Action Theory", Dept. of Philosophy, University of Leipzig, June 2004

- Lecture at the Dept. of Political Science, University of Munich, July 2004
- Lecture at the Max Planck Institute, Munich, July 2004
- Invited Lecture at “Collective Intentionality V” in Siena, October 2004
- Action theory conference at the Ethics Centre of the University of Zurich, April 2005
- Conference on Robert Audi’s philosophy, Notre Dame University (USA), April 2005
- Opponent at the doctoral disputation of Frank Hindriks, University of Rotterdam, June 2005
- Invited talk at EIPE, Erasmus University, Rotterdam, June 2005
- Invited talk at the Dept. of Philosophy, Frankfurt University, June 2005
- Invited talk at the Cognitive Science congress “Cogsci05”, Stresa (Italy), July 2005
- Lecture at CPNSS, London School of Economics, London, January 2006
- Lecture at CNR in Rome, February 2006
- Lecture at “Collective Intentionality V”, Helsinki, August-September 2005
- Invited lecture at the conference “Reasons in a social space”, Venice, September 2006
- Invited lecture at the CNR, Rome, October 2006
- Invited lecture series of four lectures at the Dept. of Philosophy of History of Science, Univ. of Sorbonne, Paris, November 2006
- Keynote speaker at NOW conference on Group Cognition (title: “Collective Intentionality and Group Reasons”) in Utrecht, June 2007
- Talk entitled “Cultural Group Selection and Cooperation” at the symposium on cooperation at the Department of Philosophy, Univ. of Munich, June 2007
- Talk entitled “Collective Intentionality and Cooperation: A Culture-Gene Based Evolutionary Argument” at the 13<sup>th</sup> Congress of Logic, Methodology and Philosophy of Science, Peking, August 2007
- Official opponent of Cedric Paternotte’s doctoral thesis at Univ. of Sorbonne, Paris, September 2007
- Invited speaker at Collective Intentionality VI, USC, Berkeley, California, July 2008
- Invited speaker at the workshop “We-Reasoning”, Trento, September 2008
- Invited speaker at the workshop “Collective Epistemology”, Basel, October 2008
- Invited speaker at the ESSLI’09 workshop, Bordeaux July 2009
- Keynote speaker at the inaugural conference of the European Network of Social Ontology, Constance, October 2009
- Invited speaker at the workshop European Science Foundation workshop on explanation in the social sciences, Amsterdam, October 2009
- Keynote speaker at the conference “Integration of Cultures”, Univ. of Leiden, April 2010
- Keynote speaker at the conference “Collective Intentionality VII”, Univ. of Basel, August 2010
- Keynote speaker at the conference of the European Network of Social Ontology II, Rome, September 2011
- Invited visiting scholar at the BSOG (Berkeley Social Ontology Group), University of California, Berkeley 2012, 2013
- Keynote speaker at the conference on sociality at IRIT, University of Toulouse, May 2012
- Invited speaker at the Collective Intentionality Conference VIII, Manchester, UK, August 2012
- Keynote speaker at the Symposium on Understanding Sociality, Bochum Germany, September 2012
- Lecture at the Department of Philosophy, University of Vienna, April 2013

- Lecture at the Department of Philosophy, University of Barcelona, April 2013
- Lecture at the Department of Philosophy, University of Fontaineblau, December 2013
- Lecture at the Department of Philosophy, University of Leipzig, January 2014
- Visiting professor, Department of Philosophy, UNED University, Madrid, spring 2014
- Visiting Scholar, IRIT, Toulouse University, fall 2009, February 2014
- Lecture at the Philosophy Department of UNED University, Madrid, February 2014
- Invited speaker at the conference "Social Roles and Collective Intentionality", May 5, 2014
- Invited speaker at the workshop "Team Reasoning and the Origins of Sociality", Department of Philosophy, University of Oslo, August 2014
- Invited speaker at the "Collective Intentionality Conference" in Bloomington, Indiana, September, 2014
- Invited speaker at the "European Conference on Social Intelligence 2014", University of Barcelona, November 3, 2014
- Talk at the workshop on "Collective Minds", December 5, 2014

2015

Invited talks at the Berkeley Social Ontology Center, February 11, and Copenhagen Center of Subjectivity, March 25

Invited speaker at ENSO IV conference, Palermo, Italy 24.9 – 26.9.

### *Scholarly Publications*

1966:

- Teot ja käyttäytymisen selittäminen. *Psykologia* n:o 2, 132 - 135
- Vielä käyttäytymisen selittämisestä. *Psykologia* n:o 3, 186 - 187
- Teoretiska problem vid tillämpning av matematiska inlärningsmodeller. *Nordisk Psykologi*, n:o 1, 103 - 104 (abstract)
- On the application of mathematical learning theories I. *Scand. J. Psychol.*, 7, n:o 4, 251 - 256
- On the application of mathematical learning theories II. *Scand. J. Psychol.*, 7, n:o 4, 257 - 264
- Inductive generalization in an ordered universe. Teoksessa J. Hintikka and P. Suppes (eds.), *Aspects of Inductive Logic*. North-Holland, Amsterdam, 155 - 174

1967:

- An analysis of the application process of a social psychological theory. *Abstracts of Papers of the 3rd International Congress for Logic, Methodology, and Philosophy of Science*, Amsterdam, s. 146.

1968:

- Probability Matching in Simple Learning. *Reports from the Institute of Psychology*. The University of Helsinki, n:o 1, 18 pp.



- A Formalization of a Theory of Social Contacts and an Analysis of Its Application Process. *Reports from the Institute of Social Psychology at Helsinki University*, n:o 3, 38 pp.
- An Information Theoretic Approach to the Evaluation of Behavioral Theories (jointly with Juhani Pietarinen). *Reports from the Institute of Social Psychology at Helsinki University*, n:o 2, 73 pp.
- On empirical models of scientific theories. *Ajatus XXX*, 169 - 194.
- Identifiability and definability of theoretical concepts. *Ajatus XXX*, 195 - 220.
- *The Application Process of a Scientific Theory: with Special Reference to Some Behavioral Theories*. *Annales Academiae Scientiarum Fennicae. Ser. B. Tom. 154: 3* (synopsis of doctoral dissertation)

1969:

- Ymmärtävistä selittämisestä käyttäytymistieteissä. *Psykologia*, n:o 2, 122 - 127
- On eliminability and definability of auxiliary concepts in first-order theories (abstract). *Journal of Symbolic Logic*, XXXIV, 543.
- On measures of the explanatory power of scientific theories (jointly with Juhani Pietarinen). In: *Akten des XIV Kongresses für Philosophie III*. Verlag Herder, Wien, 241 - 247.
- *Auxiliary Concepts Within First-Order Scientific Theories*. Doctoral dissertation. Stanford University (USA), 150 pp.-  
On construct validity of tests. *Ajatus XXXI*, 48 - 66

1970:

- Towards a general theory of auxiliary concepts and definability in first-order theories (jointly with Jaakko Hintikka). In: J. Hintikka and P. Suppes (eds.), *Information and Inference*. North-Holland, Amsterdam, 298 - 330.
- Meaning and behavior. *Ajatus XXXII*, 67 - 95.
- Teoreettiset käsitteet ja psykologivistiikka. *Psykologia*, n:o 5-6, 168 - 178.

1971:

- The Role of Theoretical Concepts in Neobehavioristic Theories. *Reports from the Institute of Philosophy*, University of Helsinki, n:o 1, 66 pp.

1972:

- Deductive explanation of scientific laws. *Journal of Philosophical Logic* 1, 369 - 392.
- Model theory and empirical interpretation of scientific theories. *Synthese* 25, 165 - 175.

1973:

- *Theoretical Concepts*. Library of Exact Philosophy 10, Springer-Verlag, Wien and New York, 254 pp.
- *Theoretical Concepts and Hypothetico-Inductive Inference* (together with Ilkka Niiniluoto). Synthese Library, D. Reidel Publishing Company, Dordrecht and Boston, 262 pp.
- Theoretical concepts in neobehavioristic theories. In: M. Bunge (ed.), *The Unity of Scientific Method*. D. Reidel Publishing Company, Dordrecht and Boston, 123 - 152.
- A psycholinguistic paradox and its solution. *Ajatus XXXV*, 124 - 139.

1974:

- Survey of some investigations on Ramsey-eliminability, *Journal of Symbolic Logic* 39, 617 - 619.

- Empiricist vs. realist semantics and model theory. *Synthese* 26, 407 - 408.
- Causality, ontology and deductive explanation. *Reports from the Institute of Philosophy*, University of Helsinki, n:o 1, 31 pp.
- Human Action and Its Explanation. *Reports from the Institute of Philosophy*, University of Helsinki, n:o 2, 119 pp.

1975:

- *Yhteiskuntatieteiden eksakti metodologia* (editor). Gaudeamus, Helsinki.
- Teoreettiset käsitteet käyttäytymisteorioissa. In: R. Tuomela (ed.), *Yhteiskuntatieteiden eksakti metodologia*. Gaudeamus, Helsinki, 460 - 500.
- A causal theory of complex actions. *Reports from the Institute of Philosophy*, University of Helsinki, n:o 1, 60 pp.

1976:

- Explanation and understanding of human behavior. In: J. Manninen and R. Tuomela (eds.), *Essays on Explanation and Understanding*. Synthese Library, D. Reidel Publishing Company, 183 - 205.
- *Essays on Explanation and Understanding* (editor together with Juha Manninen). Synthese Library, D. Reidel Publishing Company, 440 pp.
- *Yhteiskuntatieteiden filosofiset perusteet I - II* (editor together with Ilkka Patoluoto). Gaudeamus, Helsinki, I: 483 pp., II: 298 pp.
- Teoreettiset käsitteet ja havaintokäsitteet. In: R. Tuomela and I. Patoluoto (eds.), *Yhteiskuntatieteiden filosofiset perusteet I*, Gaudeamus, Helsinki, 204 - 213.
- Causes and deductive explanation. In: R.S. Cohen, C.A. Hooker, A.C. Michalos and J.W. Evra (eds.), *PSA 1974, Selected Proceedings of the 1974 Biennial Meeting of the Philosophy of Science Association*. D. Reidel Publishing Co., Dordrecht and Boston, 325 - 360
- Confirmation, explanation and the paradoxes of transitivity. In: R.J. Bogdan (ed.), *Local Induction*. Synthese Library, D. Reidel Publishing Co., Dordrecht and Boston, 319 - 328.
- Morgan on deductive explanation: a rejoinder. *Journal of Philosophical Logic* 5, 527 - 543.
- Causality, ontology, and subsumptive explanation. In: M. Przelecki et. al. (eds.), *Formal Methods in the Methodology of Empirical Sciences*. Ossolineum, Warsaw, 268 - 286.
- Humanististen tieteiden ja yhteiskuntatieteiden metodologinen asema. *Psykologia*, n:o 2, 37 - 41.
- Purposive causation of action. In: D. Føllesdal et. al. (eds.), *Kausalitet*. Institutt for filosofi, Universitetet i Oslo, 83 - 120.
- Psychological concepts and functionalism. In: *Essays on Wittgenstein in Honour of G.H. von Wright*. *Acta Philosophica Fennica* 28, North-Holland, Amsterdam, 364 - 393.

1977:

- Causality and action. In: J. Hintikka and R. Butts (eds.), *Foundational Problems in the Special Sciences*, Part Two of the Proceedings of the Invited Papers presented at the V International Congress in Logic, Methodology and Philosophy of Science, held in London, Ontario 1975. D. Reidel Publishing Co., Dordrecht and Boston, 167 - 203.
- Dispositions, realism and explanation. *Synthese* 34, 457 - 478.
- *Dispositions* (editor). Synthese Library, D. Reidel Publishing Co., Dordrecht and Boston, 448 pp.
- *Human Action and Its Explanation: A Study on the Philosophical Foundations of Psychology*. Synthese Library, D. Reidel Publishing Co., Dordrecht and Boston, 426 pp.

1978:

- Scientific realism and perception. *British Journal for the Philosophy of Science* 29, 87 - 104.
- Theory-distance and verisimilitude. *Synthese* 38, 213 - 246.
- Tieteenfilosofian uudet haasteet. *Sosiologia*, n:o 3, 157 - 159.
- On the structuralist approach to the dynamics of theories. *Synthese* 39, 211 - 231.
- Purposiivinen kausaaliiteetti ja empiirisen testattavuuden vaatimus. *Psykologia*, n:o 6, 63 - 65.

1979:

- Explanation of Action. *Reports from the Department of Philosophy*, 18 pp. University of Helsinki, N:o 1.
- Theories of human action. *Acta Psychologica Fennica* VI, 3 - 14.
- *The Logic and Epistemology of Scientific Change* (editor together with Ilkka Niiniluoto). *Acta Philosophica Fennica* 30, n:os 2 - 4, North-Holland, Amsterdam.
- Scientific change and approximation. In: I. Niiniluoto and R. Tuomela (eds.), *The Logic and Epistemology of Scientific Change*, *Acta Philosophica Fennica* 30, n:os 2 - 4, North-Holland, Amsterdam, 265 - 297.
- The Structure of Social Action. *Reports from the Department of Philosophy*, University of Helsinki, N:o 2.
- Putnam's realisms. *Theoria* XLV, Part 3, 114 - 126.

1980:

- Are analogy accounts of thinking circular? *Ajatus* XXXVIII, 124 - 147.
- Explaining explaining. *Erkenntnis* 15, 211 - 243.
- Analogy and Distance. *Zeitschrift fuer Allgemeine Wissenschaftstheorie* XI, n:o 2, 276 - 291.
- Metaphysical versus Internal Realism. *Reports from the Department of Philosophy*, University of Helsinki, n:o 8.

1981:

- Inductive explanation. *Synthese* 48, 257 - 294.
- Yhteiskuntatieteet, lait ja arvot. *Sosiologia*, n:o 3, 238 - 239.
- Individualism and concept formation in the social sciences. In: Agassi, J. and Cohen, R. (eds.), *Scientific Philosophy Today*, D. Reidel Publishing Co., Dordrecht, Boston and London, 425 - 438.

1982:

- Joint Social Action. *Reports from the Department of Philosophy*, University of Helsinki, n:o 1, 30 pp.
- Comments on Myles Brand's paper "Cognition and intention". *Erkenntnis* 18, 189 - 194.
- Action generation. In: Ilkka Niiniluoto and Esa Saarinen (eds.), *Intensional Logic*, *Acta Philosophica Fennica* 35, 282 - 301.
- Explanation of action. In: Flöistad, G. (ed.), *Contemporary Philosophy*, 3, 15 - 43.
- Tieteellinen realismi - tieteen oma filosofia?. *Tiede ja edistys*, n:o 2, 103 - 111.- Metafyysinen vaiko sisäinen realismi? *Tiede ja edistys*, n:o 4, 309.

1983:

- Eino Kailan terminaalikausaliiteetin käsite. *Ajatus* 40, 256 - 280 (together with Marja Leena Toukonen).
- *Tiede, toiminta ja todellisuus*, Gaudeamus, Jyväskylä, 141 pp.

1984:

- *A Theory of Social Action*. D. Reidel Publishing Company, Dordrecht, Boston, and Lancaster, 534 pp.
- Social Action-Functions. *Phil. Soc. Sci.* 14, 133 - 147.
- Ihmismielestä riippumattomista olioista. In: Leila Haaparanta (ed.), *Olio, Reports from the Department of Philosophy*, University of Helsinki, n:o 1, 176 - 182
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## EXCERPTS FROM REVIEWS OF PROFESSOR TUOMELA'S BOOKS

(1) *Theoretical Concepts*. Library of Exact Philosophy 10, Springer-Verlag, Wien and New York, 1973, 254 pp.:

- (The book) "is an important defense of critical scientific realism". "It must be stressed that all of these criticisms in no way undercut the importance of Tuomela's work. It is sophisticated, technically elegant, and, in a good sense, elementary (if complex); and it does not evade philosophical problems by sticking to pure formal concerns. Nearly all philosophers who use formalized representations of theoretical systems, and many who don't, would profit from a close reading of this book." (*Philosophy of Science*, 1976, pp. 452-456, Richard M. Burian)

- "To this problem (the problem of elucidating the many roles actually played by theoretical terms in science) Professor Tuomela's book makes a valuable contribution." (*Studia Logica*, 1976, P.M. Williams)

- (Anyone) "who is concerned with various kinds and degrees of definability in first-order languages, the importance of theoretical terms for deductive relationships, and the like, should begin with Tuomela's *Theoretical Concepts*." (*The Journal of Philosophy*, 1975, 491-498, Henry E. Kyburg, Jr.)

(2) *Theoretical Concepts and Hypothetico-Inductive Inference* (together with Ilkka Niiniluoto). Synthese Library, D. Reidel Publishing Company, Dordrecht and Boston, 1973, 262 pp.:

- "Anyone who wishes to base a study of induction, explanation, corroboration, information, etc. on the assumption that they are related to or definable by means of (partly empirical) probabilistic measures on first-order (monadic) languages, should begin with this book ..." (*The Journal of Philosophy*, 1975, 491-498, Henry E. Kyburg, Jr.)

(3) *Human Action and Its Explanation: A Study on the Philosophical Foundations of Psychology*. Synthese Library, D. Reidel Publishing Co., Dordrecht and Boston, 1977, 426 pp.:

- "*Human Action and Its Explanation* is comprehensive and well-informed. To my mind its outstanding feature is that it almost always demonstrates excellent philosophical commonsense; I cannot find an instance of silliness. I highly recommend this book to readers with a serious interest in action theory. I also recommend it to readers who want to learn the state of the art in action theory from the metaphysical and scientific perspective." (*The Philosophical Review*, 1979, 464-467, Myles Brand)

- "An admirable feature of some recent philosophy of action is its attempt to construct an account of fully intentional human performances which is causal, in that antecedent cognitive conditions are claimed to produce and sustain intentional results. This attempt is combined in the best theories with the claim that antecedent cognitive and conative conditions contain a structure or content which is replicated in the intended result and explains the intentionality of successful performances - in contrast to the unintended other consequences of action. Impressively, Tuomela's work has these features." "In summary, the virtues of Tuomela's book are considerable. He has attempted to ground the theory of action in his functionalist (Sellarsian) view of the mental. He has attempted to avoid both the anti-causal view and the agent-causal view of intentional action. And he adapts this account to the presupposition of universal determinism and of nondeterminism. As well, he relates his view to all the relevant, recent theories." (*Noûs*, 1984, 112-120, D. Gustafson)

- "... Tuomela lays the groundwork for a conception of scientific psychology as a discipline which, at least in explaining human action, develops theories out of the common-sense intentionalistic framework, nomically conceived." "*Human Action and Its Explanation* provides a carefully worked out, significantly original, and rigorously formalized theory of action." "...overall Tuomela has given us a clear and well-argued presentation of an elaborate and important theory". (*Synthese*, 1980, 285-306, Robert Audi)

- "In seinem über 400 Seiten starken Buch hat Raimo Tuomela, der zur Zeit wahrscheinlich wichtigste Vertreter einer kausalistischen Handlungstheorie, seine Überlegungen zur Natur menschlicher Handlungen und zur Struktur intentionaler Handlungserklärungen, die zum Teil zuvor schon an anderen Orten worden waren, zu einer umfassenden systematischen Theorie zusammengefasst. "Tuomela's Buch ist nach Goldmans *A Theory of Human Action* sicher das bedeutendste Buch im Bereich der kausalistischen Handlungstheorie". (*Erkenntnis*, 1981, 195-209, A. Beckermann)

(4) *A Theory of Social Action*. D. Reidel Publishing Company, Dordrecht, Boston, and Lancaster, 1984, 534 pp.:

- "This is a good book - rich, subtle, sophisticated, penetrating, original, and wide-ranging." (*The Philosophical Review*, 1986, 455-459, Michael Zimmerman)

- "In 'A Theory of Social Action' Tuomela has presented the first elaborated attempt at specifying the foundations of social science in a way explicit and precise enough to meet the standards of contemporary philosophy of science." "I am convinced that Tuomela's approach to social action is correct in essence." (Seebass, G, 1985, 'Analytical Action Theory as a Conceptual Basis of Social Science', in Seebass, G. and Tuomela, R., eds, *Social Action*. D. Reidel Publishing Company, Dordrecht, Boston, and Lancaster, 129-137

(5) *Science, Action, and Reality*. D. Reidel Publishing Company, Dordrecht, Boston, and Lancaster, 1985, 274 pp.:

- "Tuomela's surgery is skillful." "The strength of the book lies in its semi-formal explications of the central notions of causal internal realism, and in its critical observations on the existing literature that support the defensible features of causal internal realism. "Growth of scientific knowledge is provided an interesting formal explication ...". (*The Philosophical Review*, 1987, 585-587, Robert Ackermann)

(6) *The Importance of Us: A Philosophical Study of Basic Social Notions*, *Stanford Series in Philosophy*, Stanford University Press, 1995, 470 pp.:

- "The book is probably the most comprehensive and thorough study of social action in the philosophical literature; and it is set forth with clarity, rigor, and attention to a huge range of literature, both in and outside philosophy. The author is well known for careful argumentation ...". "I think its content is both highly plausible and, in general, a wide-ranging original contribution to the literature on the general topic." (Quoted from a referee's report for Stanford University Press)

(7) *The Importance of Us: A Philosophical Study of Basic Social Notions*, *Stanford Series in Philosophy*, Stanford University Press, 1995, 470 pp.:

"[Tuomela] presents a detailed analysis of such core social notions as mutual beliefs, social norms, joint action, and group goals, beliefs, and actions, all growing out of what he calls 'we-intentions' and 'we-attitudes'. He provides a theory of social action that elucidates what is entailed by the commonplace that human beings are social beings. ... Tuomela's style and rigorous approach is anything but breezy. While clear and even elegant, it is as difficult as it is important. Highly recommended for serious scholars and graduate students in philosophy and social psychology." (*Choice*, September, 1996, H. Oberdiek)

(8) *Cooperation: A Philosophical Study*, Philosophical Studies Series 82, Kluwer Academic Publishers

"This book is written from the vantage point of a well-developed theory of social action. Cooperation - as distinct from a series of simultaneous fortuitously harmonious individual actions - is a basic kind of social action. Tuomela offers the most detailed and most authoritative account of the nature and varieties of cooperation I have seen. ... This will likely be the philosophical treatment of cooperation when it appears and for years to come." (Anonymous referee's report on book ms)

(9) *The Philosophy of Social Practices: A Collective Acceptance View*, Cambridge University Press

"This book is outstanding for the precision and clarity it brings to its central notions, for the comprehensiveness of the philosophical theory it develops as a framework for understanding the subject matter of the social sciences, and for the instructive connections it makes to major topics and figures in philosophy and the social sciences." (Referee's report on book ms)

(10) *The Philosophy of Social Practices: A Collective Acceptance View*, Cambridge University Press

"... *The Philosophy of the Social Practices* is an impressive work. It provides an interesting way of avoiding certain circularity problems that plague attempts to understand social phenomena in terms of the meaningful behavior of individuals and it provides a more psychologically plausible account of the mechanisms by which the social world is constructed. Tuomela has, once again, written a book that is a rich resource for philosophers and social scientists thinking about the social world." (*Theoria*, Deborah Tollefsen)

"*The Philosophy of Social Practices* makes a significant contribution to the field of collective intentionality and social action by providing an analysis of social practices which is detailed, logical and comprehensive." *Philosophical Writings*

"Raimo Tuomela's book gives an extremely detailed, systematic and clarifying analysis of the central building blocks of the social world. The book really does seem to fill a void ... Tuomela fills his book with illuminating details, examples and novel distinctions." *Nordic Journal of Philosophy*

(11) *The Philosophy of Social Practices: A Collective Acceptance View*, Cambridge University Press

“All in all, *The Philosophy of Social Practices* is a detailed and sophisticated treatment of some of our most central social action concepts, and is a useful addition to the philosophical literature.” (*Notre Dame Philosophical Reviews*, S. Miller, June 2003)

(12) Evaluations of *The Philosophy of Sociality: The Shared Point of View*, Oxford University Press:

“Raimo Tuomela is an internationally distinguished philosopher of social action, and in this book he provides a comprehensive, rigorous, original account of collective intentionality. The book presents a theory of shared intentions and the group actions and social institutions they make possible; it clarifies concepts essential in ethics and political philosophy—intention, cooperation, shared responsibility, the nature of institutions, and many others—and it is informed throughout by his extensive work in action theory and the philosophy of social science. The book is essential reading for theorists of social action, and it will also be a resource for philosophers, political theorists, and social scientists.” (Prof. Robert Audi, University of Notre Dame)

“Raimo Tuomela is a pioneer in the important new field of the philosophy of social action. This, his latest offering, is essential reading for theorists of social action.” (Prof. Seumas Miller, Charles Sturt University)

“Raimo Tuomela is one of the pioneers in social ontology, and he continues to push the field forward in highly important and original ways. *The Philosophy of Sociality* builds on his previous work but contains also a wealth of new perspectives and theories, especially on the irreducibility of the group perspective, the evolution of institutions, and group responsibility. No other book in social ontology is equally broad or deep. Tuomela’s *The Philosophy of Sociality* will be essential reading in the philosophy of social sciences and economics, as well as in many adjacent fields.” (Prof. Martin Kusch, University of Cambridge)

“Raimo Tuomela hat mit *The Philosophy of Sociality* sein Hauptwerk vorgelegt. Als Wissenschaftsphilosoph legt er nicht nur eine Analyse der theoretischen Begriffe der Sozialphilosophie vor, sondern er hat ein neues Paradigma begründet, das eine Mitgliedschaftssoziologie und eine soziologisch reinterpretierte Entscheidungstheorie zu ihrem harten Kern hat.” (*Philosophischer Literaturanzeiger*, 2008. Prof. Gerhard Preyer, J.W. Goethe-University of Frankfurt)

“Raimo Tuomela’s most recent book significantly advances his ongoing research program into the full range of the social aspects of human life. Like his previous work, *The Philosophy of Sociality* is written with extraordinary analytic rigor. The work is technical and dense, but presented with extraordinary precision.” (*Notre Dame Philosophical Reviews*, June 2008, Prof. Kenneth Shockley)

“A highly original and significant contribution to an important philosophical problem. Highly recommended.” (*Choice*, 2009, Prof. M. A. Michael)

“The book provides a rigorous analysis of what Tuomela calls the ‘we-perspective’. ... There is much to admire in the book, especially the distinction between the I-mode and the we-mode participation in collective activities and the argumentation that the we-mode is vital for understanding the nature of the social world.” (*Analysis*, 2009, Prof. F. D. ‘Agostino)