

# Prof. Dr. Heinz Mandl

Leopoldstraße 13, 80802 Munich, Germany  
mandl@psy.lmu.de  
+49(0)89 2180-3257

## Curriculum Vitae

**Professor Emeritus** for Educational Science and Educational Psychology, Dr. phil., Dipl.-Psych.  
Ludwig-Maximilians-University Munich, Faculty for Psychology and Education, Department Psychology  
Born: May 21, 1937 in Munich, Germany  
<https://www.researchgate.net/profile/Heinz-Mandl>  
[https://de.wikipedia.org/wiki/Heinz\\_Mandl](https://de.wikipedia.org/wiki/Heinz_Mandl)  
<https://www.psy.lmu.de/ffp/persons/emeriti/mandl-heinz/index.html>  
<https://www.psychauthors.de/psychauthors/index.php?wahl=forschung&uwahl=psychauthors&uuwahl=p00509HM>  
<https://scholar.google.de/citations?user=KgvhNWUAAA&hl=de>

### Studies:

1956-1958 Teacher College of Munich  
1964-1971 Studies of Psychology at the LMU Munich  
1971-1975 Postdoctoral Studies of Education, Psychology and Sociology (LMU)

### Academic Qualifications:

1958 1st Teacher Examination (Teacher College, Munich)  
1961 2nd Teacher Examination (Munich)  
1971 Diploma in Psychology (Dipl.-Psych.), LMU Munich  
1975 Doctor's Degree of Philosophy (Dr. phil.), LMU Munich: Psychology, Education, Sociology  
Dissertation: Cognitive Development of Primary School Students (summa cum laude)

### Professional Experience/Academic Positions:

1958-1961 Candidate for appointment at primary and secondary schools  
1961-1967 Teacher at primary and secondary schools in Munich  
1967-1975 Research Assistant at the University of Augsburg  
1975-1978 Senior Lecturer at the University of Augsburg  
1978-1990 Full Professor for Educational Science at the University of Tübingen  
1978-1990 Head of the Research Group for Learning at the German Institute for Distance Education at the University of Tübingen  
1988-1990 Director of the German Institute for Distance Education at the University of Tübingen  
1990 - 2006 Chair for Educational Science and Educational Psychology at LMU Munich  
1995 - 2000 Dean of the Faculty for Psychology and Education at LMU of Munich  
Since 2003 Professor Emeritus  
2003-2006 Substitution of the chair Educational Science and Educational Psychology (LMU)  
Since 2006 Active research in Educational Science and Educational Psychology, especially research and development projects

### Distinctions/Visiting Professorships:

1986 Fellow of the American Psychological Association  
1987-1991 Elected speaker of the section "Educational Psychology" of the German Association for Psychology  
1987-1991 Elected speaker of the interdisciplinary working group "Intelligent Learning Systems" (German Association of Computer Science)

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1989-1991	President of the European Association for Research on Learning and Instruction
since 1999	Member of Societas Scientiarum Fennica (Finland)
2001	Award for the implementation of virtual learning environments to the University of Munich of the Bavarian State (Minister of Science, Research and Art)
2003	Oeuvre Award for outstanding contributions to the Science of Learning & Instruction of the European Association for Research on Learning and Instruction (EARLI)
2008	Fellow of the American Research Association
2021	Comenius-EduMedia Award 2021 for trainings regarding inquiry learning in a blended learning format: <a href="https://medienportal.siemens-stiftung.org/de/aktuelles">https://medienportal.siemens-stiftung.org/de/aktuelles</a>
1999	Visiting Professor at the University of Fribourg, Switzerland
1999	Visiting Professor at the University of Helsinki, Finland
2000	Visiting Professor at the University of Helsinki, Finland
2001	Visiting Professor at the Catholic University of Portugal at Viseu
2002	Visiting Professor at the University of Zurich, Switzerland
2002	Visiting Professor at the University of Linz, Austria
2003	Visiting Professor at the University of Tehran, Iran
2004	Visiting Professor at the University of Tehran, Iran

## Research Topics:

- Cognitive Psychology
- Knowledge Acquisition with Texts and Pictures and Intelligent Tutoring Systems
- Teaching-Learning Processes in Initial Business Education
- Knowledge and Action
- Knowledge Management
- Net-based Knowledge Communication in Groups
- Digital Values Education
- Gamification

## Co-initiator of the following DFG-research programs:

- Knowledge psychology (1986-1992)
- Teaching-learning-processes in initial business education (1993-2001)
- Net-based knowledge communication in groups (2000-2006)
- Co-initiator of the DFG-research group "Knowledge and action" at the LMU Munich (1994-2001)

## Research and Development Projects since 2006 (Emeritus)

- Education for Sustainable Development (Bayerisches Staatsministerium für Ernährung, Landwirtschaft und Forsten)
- Values Education in Organizations (Genossenschaftsbank)
- Gamification to foster Learning and Motivation (Bundesministerium für Bildung und Forschung)
- Blended Learning for in-service Teacher Training in STEM (Siemens Stiftung)
- Facilitating Second Language Acquisition for Children (FairChance)
- Knowledge Management in Work Context (Fonds National de la Recherche du Luxembourg)
- MINT and Values (Wertebündnis Bayern)
- Self-regulated values education with digital media in STEM (Siemens Stiftung)

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## Digital Research and Development Tools

VIT	Virtual Tutorium
LEGUAN	Knowledge management system for students
KOALAH	Virtual seminar
CaiMan	Communication tool
NetBite	Net- and example-based learning
Virtuelle Seminare (vhb)	Knowledge Management Development and Implementation of Digital Learning Environments
Experimento (Siemens Stiftung)	Digital Modules for Teacher Trainings in STEM

## Selection of University Research Partners:

- Learning Research and Development Centre, University of Pittsburg (USA); Alan Lesgold: Learning with Intelligent Tutoring Systems
- University of Colorado at Boulder (USA); David Jonasson: Designing Hypertext/Hypermedia for Learning
- University of Wisconsin (USA); Joel Levin: Knowledge Acquisition with Text and Pictures
- University of Freiburg (Germany); Hans Spada: Wissenspsychologie
- University of the Bundeswehr (Germany); Andreas Krapp: Pädagogische Psychologie
- University of Tuebingen/KMRC (Knowledge Media Research Center; Germany); Friedrich Hesse

## Selection of Company Research Partners:

- Siemens: Knowledge Master
- Telekom: Knowledge Management
- HypoVereinsbank: Multimedia learning environments
- Andersen Consulting: Multimedia learning environments
- BMW: Self-regulated learning
- DaimlerChrysler: Evaluation of multimedia learning environments
- Allianz AG
- Deutsche Bundesbahn
- Altana AG
- Volkswagen AutoUni
- Siemens Stiftung

## Teaching:

since 1975	Lectures and seminars in learning and teaching for teacher and psychology students
since 1990	Learning and instruction with digital media for students of education and educational psychology
Specific Topics:	Knowledge Acquisition Knowledge Management Empirical research methods Learning in computer networks (e-learning) Knowledge Psychology

## Publications:

- 126 Journal articles
- 320 book chapters
- 45 Books

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## Selection of Publications:

- Mandl, H. (1975). *Kognitive Entwicklungsverläufe von Grundschulern*. Oldenbourg.
- Mandl, H., & Huber, G. L. (Hrsg.) (1978). *Kognitive Komplexität*. Hogrefe.
- Mandl, H., & Huber, G. L. (Hrsg.) (1983). *Emotion und Kognition*. Urban & Schwarzenberg.
- Mandl, H., Stein, N. L., & Trabasso, T. (Hrsg.) (1984). *Learning and comprehension of text*. New Jersey: Lawrence Erlbaum.
- Mandl, H., & Lesgold, A. (Hrsg.) (1988). *Learning issues for Intelligent Tutoring Systems*. New York: Springer.
- Mandl, H., & Spada, H. (Hrsg.) (1988). *Wissenspsychologie*. Beltz PUV.
- Mandl, H., & Levin, J. R. (Hrsg.) (1989). *Knowledge Acquisition from Text and Pictures*. North-Holland.
- Jonassen, D. H., & Mandl, H. (Hrsg.) (1990). *Designing Hypermedia for Learning*. Springer.
- De Corte, C., Linn, M. C., Mandl, H. & Verschaffel, L. (Hrsg.) (1992). *Computer-based Learning Environments and Problem Solving*. Springer.
- Gerstenmaier, J., & Mandl, H. (1995). Wissenserwerb unter konstruktivistischer Perspektive. *Zeitschrift für Pädagogik*, 41(6), 867-888.
- Vosniadou, S., De Corte, E., Glaser R., & Mandl, H. (Hrsg.) (1996). *International Perspectives on the Design of Technology-supported Learning Environments*. Erlbaum.
- Renkl, A., Mandl, H., & Gruber, H. (1996). Inert knowledge: Analyses and remedies. *Educational Psychologist*, 31(2), 115-121.
- Weinert, F. E., & Mandl, H. (Hrsg.) (1997). *Psychologie der Erwachsenenbildung (Enzyklopädie der Psychologie Band D.I.4)*. Hogrefe.
- Mandl, H., & Gerstenmaier, J. (Hrsg.) (2000). *Die Kluft zwischen Wissen und Handeln – Empirische und theoretische Lösungsansätze*. Hogrefe.
- Reinmann, G., & Mandl, H. (Hrsg.) (2001). *Virtuelle Seminare*. Hogrefe.
- Reinmann, G., & Mandl, H. (Hrsg.) (2004). *Psychologie des Wissensmanagements*. Hogrefe.
- Frey, D., Mandl, H., & von Rosenstiel, L. (Hrsg.) (2006). *Knowledge and Action*. Hogrefe.
- Mandl, H., & Friedrich, H. F. (Hrsg.) (2006). *Handbuch Lernstrategien*. Hogrefe.
- Fischer, F., Kollar, I., Mandl, H. & Haake, J. M. (Hrsg.) (2007). *Scripting Computer-Supported Collaborative Learning – Cognitive, Computational, and Educational Perspectives*. Springer.
- Zumbach, J., & Mandl, H. (Hrsg.) (2008). *Pädagogische Psychologie in Theorie und Praxis: Ein fallbasiertes Lehrbuch*. Hogrefe.
- Kopp, B., & Mandl, H. (2011). Fostering argument justification using collaboration scripts and content schemes. *Learning and Instruction*, 21(5), 636-649.
- Mandl, H., Kopp, B., Niedermeier, S., & Meixner, M. (2015). *Leitfaden „Naturwissenschaften, Technik und Werte“*. *Methoden zur Implementierung des Wertaspektes in den naturwissenschaftlich-technischen Unterricht mit Experimento 8+*. Siemens Stiftung.
- Sailer, M., Hense, J., Mayr, S. K., & Mandl, H. (2017). How gamification motivates: An experimental study of the effects of specific game design elements on psychological need satisfaction. *Computers in Human Behavior*, 69, 371-380.
- Kopp, B., Wallner, K., & Mandl, H. (2017). Impulses and dilemma stories for values education in STEM context in elementary schools. *Journal of Modern Education Review*, 2, 91-205.

## Editor/Coeditor:

- Zeitschrift für Entwicklungspsychologie und Pädagogische Psychologie (Chief editor 1981-1995)
- Learning and Instruction (Advisory Member 1991)
- Unterrichtswissenschaft (Coeditor since 1991)

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- Contemporary Educational Psychology (Regional editor since 1992)
- Educational Research (Advisory board 1993-1999)
- Psychologie in Erziehung und Unterricht (Advisory board 1990-1998)
- Zeitschrift für Personalpsychologie

## Coeditor of book series:

- Advances in Learning and Instruction Series (since 1997): Pergamon/Elsevier Amsterdam
- Lernen mit neuen Medien: Huber Psychologie Praxis

## Reviewer (Selection):

- 1987-1995      German Research Foundation (DFG):  
                    Elected Reviewer: Developmental Psychology and Educational Psychology
- 1980-2006      Reviewer: Science Foundations of Switzerland, Austria and The Netherlands  
                    VW-Foundation, Bund-Länder-Kommission, The Federal Minister of Education and  
                    Science

## Affiliations:

- European Research Association on Learning and Instruction (EARLI)
- American Educational Research Association (AERA)
- American Psychological Association (APA)
- American Psychological Society (APS)
- Deutsche Gesellschaft für Psychologie (DGfPs)
- Deutsche Gesellschaft für Erziehungswissenschaft (DGfE)
- Arbeitsgemeinschaft für empirisch-pädagogische Forschung (AEPF)
- Gesellschaft für Informatik (GI)

## Member of Expert Committees:

- Review Committee for the Research in Pedagogics and Education at the Universities in the Netherlands – initiated by the Royal Academy of Arts and Science in the Netherlands
- Expert group of Bertelsmann Stiftung and Heinz Nixdorf Stiftung: University development by new media
- Member of the Program Committee “Virtual University” Baden-Wuerttemberg (Minister of Science, Research and Arts)
- Member of the Program Committee “Virtual University” Bavaria (Minister of Science, Research and Arts)
- Member of the Executive Board of the Human Studies Center at the University of Munich
- Goethe Institute: Member of the Language Committee
- Vice President of the Society of knowledge transfer and scientific further education at the University of Munich
- Member of the Scientific Committee of the Telekom Business Academy
- Member of Working Group "Information Society" (Federal Minister for Economic Affairs)
- Member of Expert Group "Distance Learning": Bund-Länder-Kommission für Bildungsplanung und Forschungsförderung
- Member of Evaluation Committee for "Education": Universities of Baden-Wuerttemberg

## Chairman of Conferences (Selection):

- 2nd European Conference in Learning and Instruction (Tuebingen, 1987)
- 40th Conference of the German Psychological Association (Munich, 1996)