Mihai Nadin

C U R R I C U L U M   V I T A E   (February 2011)

Education

Johns Hopkins University, G.W.C. Whiting School of Engineering: program in Neural Networks and Massive Parallel Computing, 1982

Brown University, Computer Science Department: course work in programming languages and computer graphics, 1981-1982

Ludwig Maximilian University, Munich, West Germany: received post-doctoral degree (Professor Dr. phil. habil.) in Philosophy, Logic, and Theory of Science. Dissertation entitled *The Semiotic Foundation of Value Theory*, 1980

Alumnus of the Salzburg Seminar in American Studies (Post-Modern American Literature)

University of Bucharest: Ph.D. in Aesthetics. Dissertation entitled *Determinations of Modern Art: Elements of Meta-Aesthetics*, 1972

University of Bucharest, School of Philosophy: MA (with honors) in Philosophy, 1970

Polytechnic Institute of Bucharest, School of Electronics: MS (with honors) in Electronics and Computer Science, 1961

Professional History

2004	Ashbel Smith University Professor, University of Texas at Dallas. Joint appointment in the School of Arts and Humanities and the School of Engineering and Computer Science
2003-2004	Distinguished Visiting Professor of Computer Science, Department of Computer Science, University of Bremen, Germany
2002	Visiting scholar, BISC (Berkeley Initiative for Soft Computing), Department of Electrical Engineering and Computer Science, University of California-Berkeley.
1999	Visiting Professor, Computer Science, and Visiting Scholar, Center for the Study of Language and Information, Stanford University
1997	Co-founder of @computational design, a company based on knowledge technology transfer from the program in Computational Design of the University of Wuppertal
1994-2003	Professor (tenured), Chair of Computational Design, University of Wuppertal, Germany. Courses in visualization, multimedia, intelligent CAD, ubiquitous computing, virtual reality, World-Wide Web. Emeritus in 2003
1991	Principal, MiNDesign. Research and consulting for education and business (new technologies and their creative applications)
1988 - 1991	Dean, School of Art and Design, Fashion Institute of Technology, New York City. Resigned to pursue consulting and scholarly work

1985 - 1988	Eminent Scholar in Art & Design Technology, Ohio State University. Advanced applications in multimedia, digital technology, visualization
1980 - 1985	Professor, Rhode Island School of Design. Taught semiotics, design, communication, computer graphics, artificial intelligence, aesthetics
1983 - 1984	William A. Kern Institute Professor in Communication, Rochester Institute of Technology. Taught semiotics of art, computer-aided human activity
1981 - 1985	Director, Institute for Visual Communication and Semiotics, Providence, RI
1981 - 1985	Adjunct professor, Center for Research in Semiotics, Brown University
1979 - 1980	Visiting professor, University of Essen. Taught semiotics, design, aesthetics
1978 - 1980	Alexander von Humboldt Research Grant, Ludwig Maximilian University, Seminar für Philosophie, Logik, und Wissenschaftstheorie, Munich. Research, and teaching in semiotics, aesthetics, axiology
1978	Lecturer, summer courses at Centro Internazionale di Semiotica e di Linguistica, Urbino, Italy
1977 - 1978	Visiting professor, Carolo-Wilhelmina University, Braunschweig, Germany. Courses in aesthetics and semiotics
1976	Nomination as senior philosopher, Institute of Philosophy, University of Bucharest, Romania
1969 - 1975	Professor of philosophy, University of Brasov, Romania

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Websites: www.nadin.ws
             www.anteinstitute.org
             http://seneludens.utdallas.edu
             www.nadin.name
             www.code.uni-wuppertal.de

Languages

English - written and spoken fluently	Hungarian - written and spoken well
German - written and spoken fluently	Italian - reading knowledge
French - written and spoken well	Classical Greek - reading knowledge
Russian - written and spoken well	Latin - reading knowledge
Romanian - native	

Programming languages: BASIC, Algol, APL1, Pascal, C, LISP, Java, experience in HTML.

Memberships (current and former)

Association for Computing Machinery (ACM), SIGGRAPH and SIGART
International Society for Computational Modeling of Creative Processes
Institute of Electrical and Electronics Engineers (IEEE) - senior member
National Computer Graphics Association
American Association for Artificial Intelligence
Mathematical Association of America
Semiotic Society of America
International Association for Semiotic Studies
American Philosophical Association
German Society for Semiotics
American Society for Aesthetics

Grants and Awards

Distinguished Visiting Researcher, Collaborative Research Centre (SFB 637) Project: "Autonomous Cooperating Logistic Processes – a Paradigm Shift and its Limitations". Technische Zentrum für Informatik - TZI (Technical Center for Information Science), Bremen, Germany, December 2009 – August 2010.

Texas Emerging Technology Fund Configurable, Scalable and Manufacturable Technology Development for Social Robotics (submitted by David Hanson); Mihai Nadin: Technical Team Member and Key Partnering Entity Texas Emerging Technology Fund $1,500,000 ($400,000 for Institute for Research in Anticipatory Systems) (2007-2010) Award announced on October 23, 2006

Silver Medal, ID Institute, for the interactive DVD, *Anticipation—the end is where we start from,* August, 2002

Sony DADC (Austria), Philips Design (Eindhoven, Netherlands), Pesch Wohnen (Cologne, Germany), stoll wohnbedarf (Cologne, Germany), SUN Microsystems (Palo Alto, CA) for sponsoring of the DVD *Anticipation: The end is where we start from,* $100,000, 2001-2002

German National Science Foundation (DFG), for an international colloquium, Trust: The 21st Century and Beyond, $20,000, 2000-2001

Research grant from the German National Science Foundation (DFG), Web Applications, $75,000, 2000

Research grant from the German National Science Foundation (DFG), for Anticipatory Systems (at Stanford University and California Institute of Technology, $10,000, Summer 2000

Alias/Wavefront-Software grant for the introduction of Maya™ in the curriculum, $120,000, 1999-2000

Deutsche Telekom, Stadtsparkasse, Barmenia, WDR, et al: grants in support of the colloquium *From Bauhaus to Thinkhouse* and publication of Colloquium Proceedings, $15,000, 1998

Alfred und Cläre Pott Stiftung, grant for a translation from English into German of my book, *The Civilization of Illiteracy*, $7,500, 1998

German National Science Foundation (DFG) for international colloquium: *From Bauhaus to Thinkhouse,* $30,000, 1997-1998

Research Coalition, Ministry for Science and Education NRW, for researching methods to optimize visualization, $50,000, 1998

Alias/Wavefront-Software grant for the introduction of Maya™ in the curriculum, $500,000, 1998

Ministry for Science and Education NRW, seed money for a data-mining application for an interactive, multimedia encyclopedia*: Associative Thinking as a Premise for Knowledge Acquisition,* $35,000, 1997

Research grant from the German National Science Foundation (DFG), Navigation tools for dissemination of interactive multimedia knowledge, $500,000, 1997-2002

Vorwerk Foundation (Mittelsten-Scheid Trust), grant for a translation from English into German of my book, *The Civilization of Illiteracy*, $7,500, 1997

Software grant for CD-ROM and Internet publication, from Macromedia, $5,000, 1996

Research grant for digital evaluation of product design, from Westmark GmbH, $30,000, 1996

Research grant for search and retrieval on Internet, from Antwerpes Design, $5,000, 1996

Alias Campus Partner, software grant for CAD, multimedia, animation, $150,000, 1995

Software grant for the program in Computational Design, from Strata, Inc., $5,000, 1995

Site license and software endowment for 3D Design application, from Vellum, $7,500, l995

Publishing grant for The Art of Art, Humboldt Foundation, $l0,000, l991

VEA Grant for introducing electronic photography in the educational environment, $59,000, 1990

VEA Grant for introduction of a Desktop Publishing Lab in the educational environment, $110,000, 1989

Scholarship and development grant, from The Wexner Foundation for the Fashion Institute of Technology, (amount protected), 1989

Computer equipment grant for creative design applications at the Fashion Institute of Technology, from Macro Systems, Inc., $35,000, 1989

Equipment grant for Design Laboratory at the Fashion Institute of Technology, from Canon, Inc. USA, $40,000, 1988

Grant for Program in Toy Design at the Fashion Institute of Technology, from the American Association of Toy Manufacturers $150,000, 1988

Equipment grant from Battelle Memorial Institute, for art applications of geometric modeler, $125,000, 1988

Grant from Ross Industries, Columbus, OH, for publication of a book, Photography: The Second Revolution, $2,000, 1988

Award of the National University Continuing Education Association for a 1987 Creative Noncredit Program (Symposium: *The Cognitive Condition of Design*), October 1987

Mentor grant from the Austrian Radio and Television (ORF) and Siemens AG, in support of original computer graphics work, $10,000, April l987

Alexander von Humboldt Research Grant at the Seminar für Philosophie, Logik und Wissenschaftstheorie, Ludwig Maximilian Universität, Munich, Germany; for research on *Models of the Mind*, $25,000, June-August 1987

Grant from the Ohio Arts Council for computer graphics visualization of a topological model for sculpture (with Betty Collings), $3,600, 1987

Development fund grant from Capital Campaign Fund, OSU, for *Artists and Computers: The Synergy of Change,* $25,000, 1986-1988

Grant to organize symposium *The Cognitive Condition of Design,* from RichardsonSmith, Inc., $1,500, 1987

Faculty Development Grant from Rhode Island School of Design; to organize and chair panel entitled *The Aesthetics of Computer Graphics* at SIGGRAPH 1985, $2,500

Faculty Development Grant from Rhode Island School of Design; to pursue work on *The Semiosis of Computer-User Interface,* $6,000, fall semester, 1984-1985 academic year

Directory of Computer Graphics, 1st edition (Communication, Education, Scientific Research and Development). Chicago: Marquis Who's Who, Inc., 1984

William A. Kern Institute Professorship in Communication, Rochester Institute of Technology; to introduce semiotics to graduate students and faculty, 1983-1984 academic year

Who's Who in Frontier Science and Technology, 1984-1987 (Information Science, Computer Science, Artificial Intelligence). Chicago: Marquis Who's Who, Inc

Directory of American Scholars, IV, edited by Jacques Cattell Press. New York, London: R.R. Bowler, Co., 1982

Alexander von Humboldt Research Grant for *Sign and Value,* $125,000, 1978-1979

Richard Merton Award, Germany, for *On the Nature of Progress in Art,* 1978

I.L. Caragiale Award of the Romanian Academy, for a study on the aesthetics of theater, 1975

DAAD Research Grant: *The Sense of Art,* $25,000. October, 1974-January, 1975

Professional Activity and Development

Member, Review Board and Associate Editor, International ournal of Signs and Semiotic Systems, Hershy PA:IGI Publishers

Member, Editorial Board, *International Journal for General Systems*, London: Taylor & Francis, since 2009

Appointed member of Advisory Board of the International Child Art Foundation, "the leading national art and creativity organization for American children," on the basis of work in anticipation and creativity. September 2009

Appointed to the Advisory Committee of The University of the People, joining a number of "renowned academic professionals, humanitarians, and other visionaries" from the USA, Europe, Asia; April 2009.
See: NY Times: http://www.nytimes.com/2009/01/26/education/26university.html
US News & World Report: http://www.usnews.com/articles/education/online-education/2009/04/02/online-education-offers-access-and-affordability.html
UN New Centre: http://www.un.org/apps/news/story.asp?NewsID=30848

Collaboration with C.C. Young, XaviX, Inc., and antÉ – Institute for Research in Anticipatory Systems to test effects of XaviX *MindGym* on maintaining and improving anticipatory characteristics in the aging; with Melinda Andrews, Ph.D. candidate in Behavioral and Brain Science, UTD

Editor, issue dedicated to Anticipation and Risk of *Risk and Decision Analysis*, 1 (2009) Amsterdam: IOS Press

Organizer (with Professor Frank Dufour, UTD) of the symposium, *Anticipation: Time and the Experience of the Virtual*, hosted by the prestigious Rachofsky House, Dallas TX, February 6, 2008. The symposium—a By-invitation-only event—was international in the range of participants (university members and students from Dallas/Fort Worth Metroplex, from the USA, and from Europe).

Ph.D. Advisory Committee, Salve Regina University, Newport, RI (2007-2008 academic year)

Member of the Editorial Board, *Decision and Risk Analysis*, beginning September, 2007

An Integrated Mobile Wireless System for Capturing Physiological Data Streams During a Cognitive-Motor Task: Applications for Aging (with G.N. Pradhan, N.D. Engineer, and B. Prabhakaran), presented at the 2007 IEEE Dallas Engineering in Medicine and Biology Workshop. Emerging Technologies for Healthcare and Quality of Life, UT-Dallas, November 11-12, 2007

Organizer of the session *Anticipation and Risk Assessment* (with speakers from industry and universities) at ICDRIA (International Center for Decision and Risk Analysis) conference *Decision-Making Under Uncertainty* (Alain Bensoussan, Organizer), School of Management, University of Texas at Dallas, May 21-22, 2007

At the invitation of Mihai Nadin, Germaine Acogny, "Mother of modern African dance," presented her dance and fitness program, based on African dance movements, at the Institute for Research in Anticipatory Systems. Researchers tracked her movements through motion capture and the Anticipation Scope™. Amazing Grace, the video resulting from theses sessions is accessible through YouTube.

Uplift Academy Workshop, Encinitas, CA. By invitation only seminar on the Good Ancestor Principle, February 4-5, 2007

Development and implementation of the *AnticipationScope™*. The AnticipationScope records both motion capture and physiological data via sensors attached to a volunteer's body. The result is an individual's *Anticipatory Profile™*. The initial data serve as a benchmark for changes in the anticipatory profile. Changes can reflect either improved anticipatory capabilities (important for high-performance activities such as sports and defense) or deterioration. To date, over 90 subjects, ranging in age from 12-80+, have been tested.

Patents pending for exercise equipment and software intended to maintain and/or improve physical and cognitive anticipatory capabilities.

Anticipation and massively distributed games for training, U.S. Army/Lockheed Martin November 15th, 2005 (ongoing)

Member of the Program Committee, 10th International conference of Optimization of Electrical and Electronic Equipment, Romania (2006)

Anticipatory Systems – Opportunities for Texas. Initiated lecture series introducing anticipatory systems as a research domain for development in economy, education, medicine, Homeland Security, the arts, government to academics and professionals in the Dallas-Fort Worth Metroplex, October 19-26, 2005

Curatorial function: *Jack Stauffacher and Dennis Letbetter: The Vico Collaboration*, University of Texas at Dallas, October 10-26, 2005

Participation of anté Institute for Research in Anticipatory Systems (in collaboration with dmbh Design, BREE professional accessories, *Brandeins* magazine) at Orgatec 3, Living at Work, Cologne, Germany, October 19-23, 2004

Initiated program entitled *Dallas – Knowledge City* for the Dallas-Forth Worth Metroplex, 2004

Initiated ENGAGE – an Associates Program: University of Texas campus-wide consortium for research and consulting for business, industry, education, government. Since 2004

Director, anté – Institute for Research in Anticipatory Systems, University of Texas at Dallas, since September 2004

Senior Fellow, Pell Center for International Relations and Public Policy, Salve Regina University, Newport, RI, 2004

Researcher, project leader, and organizer of the symposium *Recollections – The best is yet to come. 25 Years Computer Science at the University of Bremen.* Project, April-October 2003; Symposium, with interactive computer presentations of student work, 9 October 2003

Founder, anté – Institute for Research in Anticipatory Systems (a not-for profit and 501 (c) (3) organization) Little Compton, RI, 2002

Director, BISC Special Interest Group in Anticipatory Computing, Berkeley Initiative in Soft Computing, University of California-Berkeley, since 2002

Director, *Anticipation—the end is where we start from.* Project presented at the Open House, *Ab in die Mitte*, University of Wuppertal, Germany, 25-26 October 2001

Panel moderator: *Is today's educational system still appropriate in the Third Millennium?* (Passt unsere Ausbildung an den Hochschulen noch für das dritte Jahrtausend?), 11 May 2001;
*Where is Design Heading? Will the future be all digital?(*Wohin geht's mit dem "Designen"? Zukunftserwartungen: Digitales auf der ganzen Front?), 12 May 2001;

At *World Congress for Stage Design,* Showtech Messe, Berlin, 10-13 May 2001

Organizer and moderator of *Trust: the 21ˢᵗ Century and Beyond,* an international colloquium of experts, Wuppertal, 16-17 January 2001

Member of the Scientific Board of the Center for Research of Complex Systems, University of Bonn, since 2001. *Anticipation* is one of the projects pursued in the Center.

Executive Editor of the book series *Digital Horizons,* (cognitive science, visualization, artificial intelligence, information science, semiotics, ubiquitous computing) Synchron Publishers, Germany, since 2000

Member, Scientific Advisory Board, Danish National Research Foundation, Copenhagen, Denmark, since 2000

Concept for a design program at Stanford University (with Chuck Byrne, Hugh Dubberly, Nathan Felde, John Faris, Paul Pangaro), April-June 1999

Organizer of the Section *Semiotics: the conceptual engine of the digital revolution* at the VII World Congress of the International Association of Semiotic Studies, Dresden, October 1999

Introduction and moderation of panel discussion *Form Interacts with Function-Concepts for customer-oriented multimedia design* and member of panel *Learning with Multimedia Technology: What kind of education do we need?* at Envisioning Knowledge-The Knowledge Society and the New Media, 3rd International Congress of the Academy of the Third Millennium, Burda Media, Munich, February 3-4, 1999

Digital Design 2000+, Webcast of a panel discussion composed of experts in the field from Europe and the USA, December 3, 1998

Organizer, International Colloquium: *From Bauhaus to Thinkhouse,* December 1-2, 1998

Collaboration with WDR (the largest state television network in Germany) in the field of virtual sets, February 1998-2003

Participant in round-table discussion on methods and means for science and technology transfer from institutions of higher learning to the industry, NRW Ministry of Science and Education. December 1997

Co-founder of *@computational design,* a company for new media and Internet applications based on knowledge and technology transfer provided through the university program I established. (A cooperative arrangement between the university and the company defines the means and methods for the transfer.) *@computational design* provides services and development, integrating programming and design in new concepts for multimedia communication and World-Wide Web transactions.

Organized and incorporated *Head of Design*, a not-for-profit association in support of the Design Program at the University of Wuppertal. June 1997

Multimedia Forum, Digital Dissemination of Knowledge - Cognitive Aspects of Visualization. Cologne, Germany. 8-11 June 1997

Member of jury *Design Innovation 96: Communication, Media, and Recreational Technology,* Design Zentrum NRW. 20 February 1997

World-Wide Web and Multimedia. Session for Communication Association of Germany. May 1996

Advisor for the overseas Ph.D. program of the Egyptian Ministry of Education. Since 1996

Organized Internet Session for the Chamber of Commerce of the Bergisches Land District, Germany.
May 22, 1996

Co-director (with Frieder Nake, Peter Andersen) of the conference on *Information Science and Semiotics,* at the Dagstuhl International Seminar and Research Center for Information Science, Germany. February 19-23, 1996

Organizer, Nationwide Alias/Wavefront User Group Meeting (Theme: 3-D Design), Wuppertal, Germany. September 21-22, 1995

Initiator and Director, Center for Competence, Wuppertal, Germany. Applications for multimedia, network technology, and CAD for business, industry, education, medicine. 1995-2003

Campus partner with Alias/Wavefront. Designed complete courseware for Alias V.6.0 and Alias V.7.0 Design and Animation, 1994-1996

Member of Editorial Board of *Real-Time Imaging,* an international journal of fundamental multidisciplinary imaging technologies and application areas, London: Academic Press. Since 1993

The Bearable Lightness of the Sign, an international symposium in commemoration of Max Bense; the foundation of information aesthetics and its application in computer graphics. February 5-7, 1993

Chairman of session *Peirce and Manifestations of the Mind* (Artificial Intelligence), Charles S. Peirce Sesquicentennial International Congress, Harvard University, September 8, 1989

Initiator and organizer of the Fashion Institute of Technology Art and Design Lecture Series (among speakers: Geoffrey Beene, Lou Dorfsman, Tom Hoving, Pamela McCorduck, Leslie Wexner, Himan Brown). 1989-1991

Initiator and organizer of symposium *Photography: The Second Revolution,* Columbus, OH. April 21-22, 1988

Organizer of exhibit of David Hockney's works (special show made available by the artist), Columbus Museum of Art. April 1988

Initiator and organizer of symposium, *The Cognitive Condition of Design,* Columbus, OH. March 26-27, 1987

Organizer of and speaker at colloquium *Visualization of Complex Data* at National Radio Astronomy Laboratory, Very Large Array, Socorro, NM. November 21, l986

Initiator and coordinator of Advanced Computing Center for Art and Design, Ohio State University (developed idea, parameters, technical aspects, coordinated meetings with similar institutions). 1985-1986

Custodial function: exhibit organizer for paintings of Ion Dreptu, dissident Romanian painter, Van Der Heydt Museum, Wuppertal, Germany. February-April, 1986; and Nicolae Gallery, Columbus, OH. October-November, 1986

Workshop Leader: *Wo lernen die Professoren die Computerkunst?* (Where Do Professors Learn the Art of Computers?), College of the Arts, Universität Essen, Germany. May 8, 1986

Workshop Leader: *Computers for Third World Countries,* with participation of students and faculty from Egypt, Poland, Ivory Coast, Yugoslavia, and representatives of UNESCO, Bergische Universität-Gesamthochschule, Wuppertal, Germany. May 7, 1986

Workshop Leader: *Interface Design: A Semiotic Paradigm.* Applications on the Leading Edge; 4th Annual Pacific Northwest Computer Graphics Conference, University of Oregon Continuation Center, Eugene, OR. October 27-29, 1985

Chairman and organizer of panel, *The Aesthetics of Computer Graphics,* Annual SIGGRAPH Conference, San Francisco. July 22-26, 1985

Chairman and organizer of special session, *The Semiotics of User-Computer Interface,* Ninth Annual Meeting of the Semiotic Society of America, Bloomington, IN. October 11-14, 1984

Member of the Board of Directors and Vice President of the Association for Computer Art and Design Education (ACADE). 1984-1985

Exhibit (with Professor Richard Zakia): *The Semiotics of Advertisement,* Rochester Institute of Technology. April 25-30, 1984

Organizer of international symposium, *Communication in the Post-Industrial Age,* Rochester Institute of Technology. April 25-27, 1984

Advisor to Graduate Program in Computer Graphics, Rochester Institute of Technology. 1983-1984

Chairman, Committee for Computer Literacy, Rhode Island School of Design, Providence. 1981-1985

President, Nadin & Ockerse, Ltd. (consulting for design strategies, visual communication, CAD, problem solving). 1982-1985

Initiator (1982) and co-director of the Annual Workshop in Applied Semiotics, Rhode Island School of Design

Member of Educom Task Force (since 1982)

Established the working group for aesthetics and semiotics at the IX International Congress for Aesthetics, Dubrovnik, Yugoslavia. August 1980

Art and Computers, exhibit at the University of Essen (my own work included here). 1980

Established Working Group for Semiotic Studies in Theater at the 2nd Congress of the International Association of Semiotic Studies, Vienna. July 1979

Translator (texts on philosophy, science, fiction) into Romanian from German, Russian, French, Hungarian (1965-1980)

Editor of *Kodikas/Code-Ars Semeiotica,* an international journal of semiotics. 1980-1987

Permanent contributor to *Zeitschrift für Semiotik,* the journal of the German Society of Semiotics, Berlin

Associate editor, *Semiosis,* Baden-Baden: Agis Verlag (from 1977 until my resignation in 1979)

Organizer of retrospective exhibit *Mattis-Teutsch in the Avantgarde,* Friedrich Museum, Cologne, Germany. 1978

Jury member at several international festivals (Annecy Animation Film Festival, Varna, Mamaia)

ASTRA Art Shows, a forum for modern art and literature, Brasov. 1976-1978

Publications: Digital Media

Is the Computer a Semiotic Machine? A discussion never finished. Peter Bøgh Andersen: In Memoriam. Open Semiotics Resource Center (forthcoming)

Anticipation and dynamics: Rosen's anticipation in the perspective of time; and Annotated Bibliography: anticipatory systems/anticipation. Special issue of *International Journal of General Systems*, Vol. 39, Issue 1, 2010 with an introduction by George Klir.
http://www.informaworld.com/smpp/content~content=a917595306~db=all~jumptype=rss

Anticipation and the Artificial. Aesthetics, ethics, and synthetic life. Special issue on *Ethics and Aesthetics of Technologies – AI & Society* (Computer Science), London: Springer, 2009, 16 pp.
http://www.springerlink.com/content/k181860167682270/

Anticipation and Risk – From the inverse problem to reverse computation (M. Nadin, Ed.), in *Risk and Decision Analysis* (M. Nadin, Ed.), 1 (2), 2009. Amsterdam: IOS Press.
http://iospress.metapress.com/content/b7024375302ghww8/

Anticipation comes of age (Foreword), in *Risk and Decision Analysis* (M. Nadin, Ed.), 1 (2), 2009. Amsterdam: IOS Press. http://iospress.metapress.com/content/v160m1746155052n/

Anticipating the Digital University, *Proceedings of the 2009 Third International Conference on Digital Society (ICDS 2009)* (P. Kellenberger, Ed.). Los Alamitos, CA: IEEE Computer Society, 2009
http://portal.acm.org/citation.cfm?id=1511488
http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=4782874&tag=1

How can anticipation inform creative leadership? The need for a new perspective, in Führung, Innovation und Wandel (L. Becker, J. Ehrhardt, W. Gora, Eds.).
http://www.innovation-aktuell.de/?cmslesen/q0002050_25540101

Book Review: Christoph Klütsch - Computergrafik. Äesthetische Experimente zwischen zwei Kulturen. Die Anfänge der Computerkunst in den 1960er Jahren (Computer Graphics. Aesthetic Experiments Between Two Cultures. The Beginning of Computer Art in the 1960s.)
http://www.bildwissenschaft.org/journal/index.php?menuItem=miBookreview

Anticipation and Creativity in Science and Art, February 2008
http://www.youtube.com/watch?v=SmyE534nN7A

Integration of Motion Capture and EMG data for Classifying the Human Motions (with B. Prabhakaran, G. Pradhan, N. Engineer) Proceedings of the IEEE 23rd International Conference on Data Engineering Workshops (April 17-20 2007) 56-63
(http://www.ieeexplore.ieee.org/xpls/abs_all.jsp?isnumber=4400943&arnumber=4400973&count=149&index=29

Anticipation and Aesthetic Inspiration, videos from class *Aesthetics of Interactive Arts*, February-May 2007
http://www.youtube.com/watch?v=RSt1KPLPM4Y

Amazing Grace, a video presenting the dance movements of Germaine Acogny, "mother of modern African dance," as a means to maintain fitness, especially anticipatory capabilities, in the aging. YouTube: *Anticipation dance game: score points against aging*. http://www.youtube.com/watch?v=RaUJ_Hpfwm4

From Our Minds to the Artificial Digital Mind. Preface to *Screen- und Interfacedesign. Gestaltung und Usability für Hard- und Software* (Screen and Interface Design. Creativity and Usability for Hardware and Software). Berlin/Heidelberg/New York: Springer Verlag, 2007. (CD-ROM included in book)

Semiotic Machines, entry in The Online Encyclopedia of Semiotics (Paul Bouissac, Ed.).
http://www.semioticon.com/seo/S/semiotic_machine.html#

Seneludens, website describing the Seneludens project for maintaining vital anticipatory characteristics in the aging. http://seneludens.utdallas.edu

A Ubiquity Interview with David Hanson, Ubiquity, Volume 7, Issue 18 (May 9, 2006 - May 15, 2006)
http://www.acm.org/ubiquity/interviews/v7i18_hanson.htm

antÉ—Institute for Research in Anticipatory Systems, Website/publication dedicated to the science of anticipatory systems. www.anteinstitute.org

Where Is Semiotics When You Need It Most? in *SemiotiX. A Global Information Bulletin*, 4, July 2005
http://www.semioticon.com/semiotix/semiotix4/newsletterindex4.htm

Seniors and Gaming. Interview in *Ivory Tower*, a column in the webzine of the idga (International Game Developers Association), March 2005, Interview in *Ubiquity*, January 2005)
http://www.acm.org/ubiquity/interviews/v5i42_nadin.html

Mihai Nadin on Anticipatory Systems. What is the difference between a falling stone and a falling cat? Interview in *Ubiquity*, January 2005, http://www.acm.org/ubiquity/interviews/v5i42_nadin.html

Eine Revolution der Fantasie? *Living at Work* series, number 38 (with an abridged English version)
http://www.changex.de/d_a01603.html

System Failure: Where is the RESET Button? http://parapluie.de (no. 15, Winter 2003)

We are what we do (Winter, 2003) http://home.snafu.de/jonasw/PARADOXNadinE.html

Anticipation: The end is where we start from, a DVD on the aspects of anticipation, 2002.

Website for a knowledge community on anticipation studies, www.anticipation.info, 2001

Trust: the 21st Century and Beyond. CD-ROM of the international colloquium of the same name, with interviews of participants, 2001

Digital Design 2000+ A roundtable of experts, CD-ROM, 2nd edition, with *The Civilization of Illiteracy,* June 2000

Digital Design 2000+ A roundtable of experts, CD-ROM, 2nd edition, German version, with *Jenseits der Schriftkultur,* June 2000

Semiotics for the HCI Community http://www.code.uni-wuppertal.de/uk/hci/welcome.html

La Civilización de las Escrituras Variadas, a Spanish site dedicated to The Civilization of Illiteracy (author: Professor Frederic Chordá)
http://www.xtec.es/~fchorda/civiweb/index.htm

The Civilization of Illiteracy, Project Gutenberg
http://promo.net/cgi-promo/pg/t9.cgi

Digital Design 2000+ a roundtable of experts, webcast on 3 December 1998; www publication, December 1998-April 1999, published as a CD-ROM, 1999

The values of the *Civilization of Literacy* are no longer valid (Translation of Los valores de la civilización de la escritura ya no son válidos, in *Ajoblanco*, vol. 123 11/1999. pp. 58-61).
http://www.code.uni-wuppertal.de/uk/
computational_design/who/nadin/publications/articles_in_journals/welcome.html

Jenseits der Schriftkultur
http://www.code.uni-wuppertal.de/

Mind – Anticipation and Chaos, www.networld.it/oikos/naminds1.htm, included in the Website (www.oikos.org) entitled Steps to an Ecology of Mind, coordinated by J. V. Kenny

SOPHIA – Digital Dissemination of Knowledge. http://sophia.uni-wuppertal.de

Let Her Works Praise Her. CD-ROM, 1997 (with O. Helmich and A. Rosgen)

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Lectures and Papers Presented

Anticipation – A New Frontier in Science, in the framework of the Europe-wide research project *Autonomous Cooperating Logistic Processes – A Paradigm Shift*, Collaborative Research Center 637, University of Bremen, April 16, 2010

Anticipating the Digital University, *Proceedings of the 2009 Third International Conference on Digital Society (ICDS 2009)* (P. Kellenberger, Ed.). Los Alamitos, CA: IEEE Computer Society.

Anticipation: From Flies to Games to New Forms of Computation. Invited lecture before MENSA (North Texas Region), Dallas TX, November 28, 2008

Analyzing Motoric and Physiological Data in Describing Upper Extremity Movement in the Aged (with G.N. Pradhan, N. Engineer, B. Prabhakaran), in *International Conference on Pervasive Technologies Related to Assistive Environments (PETRA 2008)*, July 16-19, 2008, Athens, Greece.

Anticipation in medicine. A new perspective. 16th Annual NORA (Neuro Optometric Rehabilitation Association) Multi-Disciplinary Conference, San Antonio, TX, April 12-13, 2008

An Integrated Mobile Wireless System for Capturing Physiological Data Streams during a Cognitive-motor Task: Applications for Aging (with B. Prabhakaran, G. N. Pradhan, N. D. Engineer), Engineering in Medicine and Biology Workshop. Emerging Technologies for Healthcare and Quality of Life, The University of Texas at Dallas, (Richardson TX), November 11-12, 2007

Anticipation and Risk – from the inverse problem to reverse computation, Decision and Risk Analysis Conference: Convergence of Finance and Industry. International Center for Decision and Risk Analysis (ICDRIA), School of Management, University of Texas at Dallas, May 21-22, 2007

Anticipation as an Attractor, paper presented in the framework of the session "Anticipating the Future" at Uplift Academy Workshop, Encinitas, CA. By-invitation-only seminar on the Good Ancestor Principle, February 4-5, 2007

Seneludens Project – Maintaining Anticipatory Functions in the Aging through Games and Interactive Environments, Games for Health conference, Baltimore, September 28-29, 2006

What do Art and Entrepreneurship Have in Common? Keynote lecture at Remscheid Regionale Opening, Wuppertal, Germany, May 5, 2006

Should/could bioethics be anticipatory? North Texas Bioethics Network, April 25, 2006

Can philosophy overcome its ancillary condition? Dallas Philosopher's Forum, March 14, 2006

Anticipation and Intuition: a new rational foundation for design, School of Industrial Design, University of Guanajuato, Mexico, April 15, 2005

A mathematical foundation for anticipation: What do we need? CIMAT (Centro de Investigacion en Matematicas), Guanajuato, Mexico, April 14, 2005

AntÉ Up! Keynote Address, Computer Game Conference (cgc 2004), October 15-17, 2004

Globality: The Beauty and the Beast (Partaking in the Civilization of Illiteracy), Pell Fellow Lecture Series, Salve Regina University, Newport RI. April 26, 2004

Reaction will not do. The Cause Lies in the Future. Pell Fellow Lecture Series, Salve Regina University, Newport RI. May 5, 2004

How do we explain the anticipatory characteristics of motoric activity? Anticipatory Behavior Control. A Meeting of Specialists. Delmenhorst, December13-14, 2003

The goalkeeper's flash of genius before the penalty kick. Presentation of Anticipation and Innovation at ECC Kohtes Klewes, (consultants for new business solutions), Duesseldorf, 26 November 2003

Outlook and Obligations, Digital Media Symposium: 25 Years of Computer Science at the University of Bremen, 9 October 2003

Anticipating Future Realities, Meersburger Forum for Business and Communications (presented by Schindler Parent & Co., international consultants for economic development), Meersburg, Germany, October 1-2, 2003

Applying anticipatory systems to economic development, Metallurgy Industry Association, NRW, 24 June 2003

Anticipation: The end is where we start from, Computer Science Colloquium, University of Bremen, 11 June 2003

What does anticipation mean to AUDI? Presentation at AUDI Headquarters, Ingolstadt, Germany, 19 February 2003.

Anticipation -Integration of DVD and an Internet-based Knowledge Community, presented in the framework of Lernwelten der Zukunft (Learning Environments of the Future), Education Quality Forum, Dortmund, 21-22 November 2002

Where is the "Human" in Human-Computer Interaction (HCI)? Keynote lecture, NORDICHI: Nordic Computer-Human Interaction conference, Aarhus, Denmark, 18-22 October 2002

Anticipation – Directions for Applied Research, opening talk at the Meeting of the Innovation and Technical Analysis Working Group, Düsseldorf, 10-11 October 2002

Writing and Publishing in the Civilization of Illiteracy, presentation organized by Synchron WVA (10 October), Frankfurt Book Fair, 9-14 October 2002

Anticipation and creativity. Why the sciences as we know them cannot explain creativity. Art and Architecture Lecture Series, State University of New York-Buffalo, September 9, 2002.

Human-computer interaction: the need for understanding and applying anticipation. Computer Science Department, Stanford University, May 23, 2002 http://anticipation.g3wo.com/

Driver and car – a hybrid entity. Ideas for applying anticipation in the mobility industry. Research and Technology Center, DaimlerChrysler, Palo Alto, CA, May 14, 2002

Soft computing and anticipation. Tools for a better understanding of anticipatory processes. Lecture sponsored by BISC and the Institute for Cognitive Studies, UC-Berkeley, April 18, 2002

Anticipation: why is beauty so important in nature? Campus Conversations, Friends of the University, Wuppertal, Germany, November 8, 2001

Vive la Difference. Quality of Life in an Integrated World. At European Research Conference on Unity and Diversity. The contribution of the social sciences and the humanities to the European Research Area, Bruges, Belgium, October 29-30, 2001

How does the brain support anticipatory processes? Jülich Research Center [one of the 15 Helmholtz Research Centers of Germany], October 8, 2001

Digital Foundations of Design. Class lectures presented at Helwan University, Cairo, Egypt. January-February 2001

What was in the beginning (word or image)? What will follow? At CyberRausch und Wissens Lücke. Babylon im 3 Jahrtausend? (CyberRush and Knowledge Gaps. Babylon in the Third Millennium?), *Gmünder [Design] Gespräche,* 28 October 2000

*Redefining Knowledge Dissemination (*Wissensvermittlung im Umbruch), Keynote lecture; Member of panel discussion, *Aspects and Infrastructure for Digital Teaching and Learning* (with George Landow, Brown University, USA, University of Singapore; R. Cavalier, Carnegie Mellon University; J. McClintock, Columbia University) at Writing and Images at the Turning Point, a conference held at the Ludwig-Maximilian University, Munich, June 23-25, 2000

What will happen in 2016? How the Digital Revolution Will Change Our Civilization. Lecture series sponsored by the *Remscheider General-Anzeiger* and the *Solinger Tagesblatt,* Apr. 6 and May 29, 2000

One Cannot NOT Interact. Workshop (6) *Semiotic Approaches to User Interface Design,* CHI 2000: The Future is Here, The Hague, Netherlands, Apr. 1-6, 2000

Internet's Challenge to Germany. Keynote address at BHF Conference on Network Security Systems, sponsored by Norman Data Defense and Security Systems, Solingen, Mar.21, 2000

Anticipation: A Challenge. Memoria Futura: Kulturelles Erbe und Informationstechnologie: eine neue Perspektive? Bonn, December 10-12, 1999

Anticipation – A Spooky Computation. Conference on Computing Anticipatory Systems (CASYS 99), Liege, Belgium, August 8-11, 1999

Web Appliance, at Hewlett Packard, Research Group, Palo Alto, CA, May 11, 1999

Computational Design: what it is, why it is necessary, what it does. Stanford Seminar on People, Computers, and Design, Stanford University, April 16, 1999

Art and Computers: Directions. College of Fine Arts, University of Arizona, Tucson, April 8, 1999

The Cause Lies in the Future. DaimlerChrysler Research Institute, Berlin, February 17, 1999

Digital Knowledge Communication. Envisioning Knowledge-The Knowledge Society and the New Media, 3rd International Congress of the Academy of the Third Millennium, Burda Media, Munich, February 3-4, 1999

The Interesting as an Aim of Computation. A Journey in Aesthetic Space (Das Interessante als Computationale Zielsetzung. Ein Ausflug im ästhetischen Raum). Celebration Colloquium: Homage to Frieder Nake on the Occasion of His 60th Birthday, Department of Computer Science, University of Bremen, December 16, 1998

Between Data and Display. 3rd Visualization Workshop, Bits-Image-Meaning (Bits-Bilder-Bedeutung) Research Group, University of Paderborn, November 27, 1998

What Kind of Sign is a Bit? Semiotics and the Information Sciences, Victoria College, University of Toronto, October 13-15, 1998

Interactive Multimedia Navigation (with C. Lango). CVIR Workshop (Content Visualization and Intermedia Representations), University of Montreal, Canada, August 15, 1998

Universal: A Continent Beyond Tradition. Plenary Session at Third World Congress of the International Society for Universalism, Babson College, Wellesley MA, August 7, 1998

The original is better than the reproduction. Keynote address at Retrospective Exhibit: *Manfred Mohr - Algorithmic Works.* Josef Albers Museum, Bottrop, Germany, March 29, 1998

The role of institutions in the post-literacy age. Berlin Working Group for Semiotics and Culture, Technical University, Berlin, January 11, 1998

Navigation tools for interactive multimedia information transfer, Bits, Bilder-Bedeutung (Bits-Images-Meaning), at Joint Research Group (Efficient Algorithms for Discrete Problems and their applications, and Program for Structural Formation Processes) University of Bielefeld, November 20, 1997

From language to languages, Die Sprache der Dinge (The Language of the Object), symposium held at the Munich Design Center, Germany, November 5, 1997

The price we pay: literate structure vs. the new dynamic of human activity, PKA Roundtable series, Heiden-Nordick, Germany, June 23, 1997

Concepts of Visualization, Institute for Media Studies, Cologne, Germany, May 28, 1997

Imaging Science: Challenges for the Future, Rochester Institute of Technology, NY, May 19, 1997

The Electronic Book and the Civilization of Illiteracy, at the Dresden Museum of Technology, Germany, May 7, 1997

Beautiful New World, University of Essen, Germany, May 5, 1997

Art in Cybercity. Second International City Planning Conference, Xanten, Germany, March 12-14, 1997

Visualization of Geophysical Data—How do we communicate complex information? Contributions to a Research Consortium dedicated to visualization, Paderborn University, January 22, 1997

Cognitive Aspects of Visualization. North Rhine Westphalia Research Group, Visualization Strategies and Structural Processes, University of Bielefeld, Germany, December 13, 1996

Information technology and human development. Institute for Information and Media Sciences, University of Aarhus, Denmark, November 9, 1996

Behind us the darkness/Between us the rift. VISCOM Visiting Artist Series, Maryland Institute, College of Art, Baltimore, MD. Sept. 19, 1996

World-Wide Web as Innovative Marketing Tool. Chamber of Commerce, Wuppertal-Solingen-Remscheid, May 22, 1996

World-Wide Web and Multimedia. Deutsche Kommunikations Gesellschaft, Wuppertal, May 21, 1996

The Computer as Semiotic Machine. Dagstuhl International Seminar and Research Center for Information Science, Germany, February 19-23, 1996

Chaos, Dynamics, Dissipative Structures: New Perspectives for Structuralism. Keynote lecture at Structuralism, an international conference commemorating the pioneers of structuralism, at Technische Universität Dresden, Germany, April 19-23, 1995

Computational Design. Graduate Program in Computer Science, New Jersey Institute of Technology, Newark, March 7, 1995

The Daemon of Progress. Inaugural lecture for the chair of Computational Design, at the University of Wuppertal, November 3, 1994

Ubiquitous computing and the factory of the future. Colloquium: Factory of the Future, organized by the Technology Center of the city of Solingen and the Industrial Design Department of BUGH-Wuppertal, Solingen, October 20, 1994

Cognitive Aesthetics, or Bursting the chrysalis to become a butterfly. College of Fine Arts, HBK, Braunschweig, November 11, 1993

The Bearable Impertinence of Rationality. Keynote address at Interface II, Weltbilder/Bildwelten, an International Symposium, in the framework of the first MULTIMEDIALE, Hamburg, February 5-7, 1993

De plus ça change... Creativity in the context of scientific and technological change. University of Michigan, School of Art, Ann Arbor, January 21, 1993

Algorithmic and Non-Algorithmic Aspects of Design. University of Wuppertal, School of Design. Wuppertal, October 30, 1992

Making the Future Happen (Interactively!). Graduate Program, School of Visual Arts, New York, April 14, 1992

Another Tale/Tail Wagging the Dog. Concluding address at the GDEA Annual Conference (Interactive Multimedia), University of Iowa, Ames, November 2, 1991

Interpreting Prehistoric Images in the Post-Historic Age: A Cognitive Project. Semiotic Society of America Annual Conference, University of Maryland, Baltimore, October 26, 1991

Art Experience and Knowledge. Department of Art and Art Professions, SEHNAP, New York University, April 26, 1991

The interaction of minds. Rochester Institute of Technology, April 18, 1991

Ästhetik und Techno-Ästhetik. Wissenschaft und Kunst (Aesthetics and Techno-Aesthetics. Science and Art); presented at the conference on Kunst und Technologie-Ästhetik im Wandel (Art and Technology-Changing Aesthetics), Braunschweig State Museum, Germany, January 16, 1991

A conceptual framework for human-machine interaction. International Interactive Communication Society, New York, November 14, 1990

Intelligence for Animation. 20th Annual National Conference of the Information Science Society of Germany, Stuttgart, October 8-12, 1990

The Significance of Semiotics for Designers. Graduate Seminar, School of the Arts, Department of Communication Arts and Design, Virginia Commonwealth University, Richmond, March 30, 1990

The Mind of the Designer. School of the Arts, Department of Communication Arts and Design, Virginia Commonwealth University, Richmond, March 29, 1990

A Little Bit of Fractals, a Lot of Chaos. School of Visual Arts, Parsons School of Design, New York City, October 23, 1989

Intelligence (Artificial or Not) and the Reality of the Mind. Peirce Sesquicentennial International Congress, Harvard University, Cambridge, MA, September 5-10, 1989

Creativity and the new visualization technology—implications for teaching. Photo I Workshop, organized by the Ansel Adams Gallery, Rochester Institute of Technology and Eastman Kodak, Rochester NY, June 21, 1989

The Politics of Perception in Art, Design, and Technology. National Museum of American Art, Smithsonian Institution, Washington, DC, May 7, 1989

Communication in a time of integration and global awareness. SEHNAP Division of Arts and Communication, New York University, April 27, 1989

The Paradigm of Self-Organization. IV Congress of the International Association of Semiotic Studies. Barcelona/Perpignan, March 31-April 4, 1989

Creativity and Design Intelligence. School of Design, North Carolina State University, Raleigh, March 15, 1989

Computing and Its Real Significance for the Arts. Visual Arts Department, University of California at San Diego, February 8, 1989

Science and Beauty. Visual Arts Department , University of California at San Diego, February 7, 1989

Kommunikation und Erkenntnis (Communication and Knowledge). Lecture series on communication theory and electronic media, University of Essen, Germany, January 24, 1989

The education of minds. Faculty convocation lecture, Fashion Institute of Technology, New York, November 6, 1988

Emergent aesthetics (Aesthetic issues in computer art). First International Symposium on Electronic Art, Utrecht, Holland, September 27-30, 1988

Design theory from a computational perspective . Keynote address, National Conference of Graphic Design Educators Association, Chicago, June 24-26, 1988

From Mind to Mind Machines. NYNEX Science & Technology Applied Research Seminar Series, White Plains, NY, May 12, 1988

The Digital Eye/I. Symposium: Photography: The Second Revolution, Columbus, OH, April 21-22, 1988

Implementing Intelligent Processors (with M. Novak). Second Eurographics Workshop on Intelligent CAD Systems, Centrum voor Wiskunde en Informatica, Veldhoven, Holland, April 11 - 15, 1988

Vom digitalen Wissen zur Computerkunst (From digital knowledge to computer art). Foundations Lecture Series, Zentrum für Kunst und Medientechnologie, Karlsruhe, Germany, April 6, 1988

Minds as Configurations: Intelligence is Process. Graduate Lecture Series, Ohio State University, Columbus, January 29, 1988

Ars ex Machina Revisited. Graduate Studies Seminar, Faculty of Arts and Letters, SUNY-Buffalo, Dec. 4, 1987

Image Machine. Keynote address at Ars Electronica, International conference and computer art competition, Linz, Austria, September 16-21, 1987

Design Intelligence . Keynote address at AIGA National Conference, San Francisco CA, Sept. 4-7, l987

Design Machine. Conceptual Framework (with M. Novak). First Eurographics Workshop on Intelligent CAD Systems. Centrum voor Wiskunde en Informatica, Noordwigkerhout, Holland, April 21-24, 1987

The common denominator: Is there such a thing? The Cognitive Condition of Design (symposium sponsored by the OSU College of the Arts, Battelle Memorial Institute, RichardsonSmith, Inc.), Columbus, OH. March 26-27, 1987

Design and Computer Graphic Arts (Focus Seminar: Computer Graphic Arts Directions); and *Graphic Arts Systems and Software* (Forecast Panel). Computer Graphic Arts 86/87, Pratt Center for Computer Graphics in Design, New York, December 7-10, 1986

Art & Computers Bilder/Images Digital. Keynote address, conference commemorating 25 years of computer art), Munich, Germany, October 24, 1986

G-pictures: Elements of a probabilistic pictorial grammar. Computer and Information Science Lectures and Seminars, Ohio State University, Columbus, May 29, 1986

Forschungsbericht (Report on Research). Bergische Universität-Gesamthochschule, Wuppertal, Germany, May 6, 1986

Kunst und Computer (Art and Computers). Universität Essen, Germany, May 8, 1986

Die Würde und Fragwürdigkeit der künstlichen Intelligenz (The Dignity and Credibility of Artificial Intelligence). Universität Paderborn, Germany, May 17, 1986

Rechenanlagen als Darstellungsmittel (Computers as Means of Representation). Universität Bremen, Germany, May 15, 1986

User interface—a semiotic paradigm. Battelle Memorial Institute, Human Factors Society, Southern Ohio Chapter, Columbus, April 1986

Electronic tools for graphic designers: How do we integrate them in studios and education programs? Keynote address, STA Spring Conference (Finding Order in Chaos), Chicago, April 11-13, 1986

Aesthetic Value. The Semiotic Identification of Value. College of Architecture, Planning and Design, Illinois Institute of Technology, Chicago, April 10, 1986

Infinite Semiosis. Art Academy of Cincinnati, OH, March 12, 1986

Representation. Graduate School of Architecture, University of Pennsylvania, Philadelphia, January 28, 1986

The intelligent interface—understanding and being understood by computers. Seminar: Breakthrough Trends in Graphic Arts, Computer Graphic Arts 85, Pratt Center for Computer Graphics in Design, New York, December 8 -11, 1985

Interface Design: A Semiotic Paradigm. Keynote address, Fourth Annual Computer Graphics Conference (Applications on the Leading Edge), University of Oregon Continuation Center, Eugene, October 27-29, 1985

The aesthetics of computer graphics. 12th Annual Conference on Computer Graphics and Interactive Techniques, SIGGRAPH 85, San Francisco, July 25, 1985.

Art and design with computers: the need for interdisciplinarity. Mellon Seminar on Artificial Intelligence, Fairleigh Dickinson University, Rutherford NJ, March 19, 1985

Can the analytic engine run the art machine? Computers in Art and Design. Battelle Endowment for Technology and Human Affairs (Engineering & Art), Columbus, OH, February, 1985

Aesthetic criteria for computer graphics. (Seminar: Computer Graphics in Art Education), Ohio State University, Columbus, February, 1985

Design as interface. Graduate seminar, Department of Industrial Design, Ohio State University, Columbus, February, 1985

Semiotic and cognitive aspects of computer animation. Graduate seminar, Computer Graphics Research Group/Cranston Center, Ohio State University, Columbus, February, 1985

The romanticism of the post-modern. Keynote address at the 48th Annual Conference of the Mid-America College Art Association (In the Shadow of the Millennium: Educating Artists in a Post-Industrial Society), Cleveland Institute of Art, October 24-26, 1984

The semiosis of man-machine communication. 9th Annual Meeting of the Semiotic Society of America, Indiana University, Bloomington, October 11-14, 1984

The aesthetics of computer graphics. Panel with B. Nessim and M. Lovejoy, 1st Meeting of the Association for Computer Art & Design Education, St. Paul MN, July 18-21, l984

The expansion of creativity vs. canned art. Keynote address, 1st Meeting of the Association for Computer Art & Design Education (ACADE), St. Paul MN, July 18-21, 1984

Design as interface. University of Essen, Germany, July 9, 1984

Sign and value. 3rd Congress of the International Association for Semiotic Studies, Palermo, Italy, June 25-29, 1984

The semiotic model of artificial intelligence - a shift in paradigm. Colloquium on Artificial Intelligence, Rochester Institute of Technology, NY, May 12, 1984

How soft should software be? Keynote address Communication in the Post-Industrial Age, Rochester Institute of Technology, NY, April 25-27, 1984

How fuzzy is ideology? State University of New York-Buffalo, April 17, 1984

Values in the post-modern era: the civilization of illiteracy. Institute Forum: Technology and Values, Rochester Institute of Technology, NY, November 9, 1984

Values in post-modern art. 8th Annual Meeting of the Semiotic Society of America, Snowbird, UT, October 6-9, 1983

Philosophy in the civilization of illiteracy. XVII Congress of Philosophy, Montreal, Canada, August 21-27, 1983

The computer: using it or being used? Design and Technology Update: Adapting to the Forces of Change, Rochester Institute of Technology, NY, May 9-11, 1983

Interactivity: on computer art and design. William A. Kern Institute Professorship in Communication, Rochester Institute of Technology, NY, March 16, 1983

Text and symbol in teletext and videotex: their potential. School of Art, Yale University, New Haven CT, January 29, 1983

The designer—a semiotic animal. Fall Lecture Series, Illinois Institute of Technology, Chicago, Nov. 3, 1982

The meaning of the visual. Special Session, The Semiotics of the Visual: On Defining the Field, 7th Annual Meeting of the Semiotic Society of America, SUNY-Buffalo, October 21-24, 1982

The computers challenge to art—arts challenge to the computer. Art Institute of Boston, Oct. 16, 1982

Visual semiotics: methodological framework for computer graphics and computer-aided design. The Designer and the Technology Revolution, Rochester Institute of Technology, NY, May 13-15, 1982

Ten commandments for the designer using computers. Panel discussion entitled Technology and the Creative Process, The Designer and the Technology Revolution. The Design Schools and the Rochester Institute of Technology, NY, May 13-15, 1982

Semiology: is it nonsense? Brown University, Providence RI, March 24, 1982

Architecture as a sign system. Rhode Island School of Design, Providence, March 17, 1982

Problem-solving strategies: the semiotic approach to industrial design. Rhode Island School of Design, Providence, March 17, 1982

The civilization of illiteracy. 6th Annual Meeting of the Semiotic Society of America, Vanderbilt University, Nashville, TN, October 1-4, 1981

East and West Art. Westkunst, Cologne, West Germany. June 1981

Theater of the future: a game of chance? Beyond Beckett: Post-Modern Theater and Drama, 8th Annual Theater Conference, Ohio State University, Columbus, May 2-4, 1981

The semiotics of risk. International Symposium on Risk Theory, Center for Interdisciplinary Studies, Bielefeld, Germany, November, 1980

Die mögliche Welt der Utopie (The possible world of Utopia). Colloquium and Seminar Week on Aesthetics, University of Essen, Germany, September 1980

On aesthetic communication. Working Group on Aesthetics and Semiotics, 9th International Congress for Aesthetics, Dubrovnik, Yugoslavia. August 25-31, 1980

Lost dimensions of the aesthetic. 9th International Congress for Aesthetics, Dubrovnik, Yugoslavia. August 25-3 l, 1980

The aesthetic sign and aesthetic value. Colloquium on Semiotics and Aesthetics: The Constitution of Aesthetic Signs, University of Essen, Germany, November 9-11, 1979

Interpretivity. Working Group on the Semiotics of the Performing Arts, 2nd Congress of the International Association of Semiotic Studies, Vienna, Austria, July 2-6, 1979

Fuzzy sign processes and the value continuum. 2nd Congress of the IASS, Vienna, Austria, July 2-6, 1979

Ivanov and the semiotic circle from Novosibirsk. Colloquium on Semiotics, Technische Universität Berlin and the Semiotischer Arbeitskreis, Berlin, May 1979

Sign, fuzzy, continuity. 2nd Semiotic Colloquium, Deutsche Gesellschaft für Semiotik, Regensburg, Germany, September 1978

La poésie concrète comme fonctionnement des signes (Concrete poetry as sign functioning). 1st International Study Seminar, Urbino, Italy, July 1978

Signe et idéologie (Sign and ideology). 6th European Colloquium on Semiotics, University of Perpignan, Perpignan, France, April 1978

Zeichen und Wert - eine Formalisierung (Sign and value:-a formalization). Seminar for Information Aesthetics and Semiotics, Institut für Philosophie und Wissenschaftstheorie, Stuttgart, Germany, December 1977

Ästhetische Systeme (Aesthetic systems). 5th European Colloquium on Semiotics, Aachen, Germany, October, 1977

Zeichen und unscharfe Mengen: Fuzzy Kategorien (Sign and fuzzy sets: fuzzy categories). International Semiotic Days, Suzette, France, September 1977

Sign and fuzzy sets. 4th European Colloquium on Semiotics, University of Stuttgart, Germany, October 1977

On the semiotic nature of Brancusi's sculpture. International Brancusi Seminar, Bucharest, Romania, April 1977

Critique and value. ZTN, Cluj, Romania, 1976

Der Sinn als Gegenstand der Ästhetik (Sense as the object of aesthetics). 8th World Congress of Aesthetics, Darmstadt, Germany, 1976

The integrating function of the sign in Peirce's semiotic. Peirce Bicentennial International Congress, Amsterdam, Holland, 1976

Ein Modell der diagonalen Kategorien (A model of diagonal categories). Hochschule für Bildende Kunst, Braunschweig, Germany, October 1974

A principle of complementarity in scientific language. 14th International Congress on the History and Philosophy of Science, Kyoto, Japan, 1974

Humanism and liberty. 1st World Congress of Humanities, Atlanta, GA, 1974

On the functioning of philosophy: the critical and ideological functions of contemporary philosophy. 15th World Congress of Philosophy, Varna, Bulgaria, October 1973

Introduction to sociography. Center for Futurology, Bucharest, Romania, September 1973

Computer research on dramatic characters. Universal Computer Center, Bucharest, Romania, February 1973

Reification of philosophy. Research Center for Philosophy, Romanian Academy, Bucharest, Romania, December 1972

Ambiguity and constraint. 7th International Congress of Aesthetics, Bucharest, Romania, September 1972

On aesthetic progress. Academy for Social and Political Sciences, Bucharest, Romania, September 1972

Perisability and perennity in the performing arts. Institute of Art History and Theory, Romanian Academy, Bucharest, June 30-July 1, 1970

The theater and its system of values. 5th Meeting of the International Theatre Institute, Bucharest, August 1969

Research Projects

In Progress:

Mind Gym. Testing and validating the effects of interactive games in regard to maintaining motoric and cognitive health in the aging; in cooperation with C.C. Young Community Centers, Dallas TX, and Xavix, Inc., San Diego CA / Shinsedai, Inc., Japan

Amazing Grace: African dance movements for the maintenance of fitness and anticipatory functions in the aging (in the framework of the Seneludens project). Since April, 2007

AnticipationScope™. Cognitive-motoric data capture using electromotoric sensors and motion capture in order to produce a person's *Anticipatory Profil*™*e*; with applications to aging, neurological spectrum disorders, high-performance mental and physical activities.

Seneludens™ - Interactive games and devices for maintaining cognitive, anticipatory, and physical skills in the aging. Since 2004

Anticipation and Soft Computing, Berkeley Initiative in Soft Computing, University of California-Berkeley. Since February 2002

HYPE: an integrated knowledge management environment, for DaimlerChrysler. Since January 2001

Anticipatory Systems. Ongoing research pursued at Stanford University (March-June 1999, summer 2000) and California Institute of Technology (summer 2000)

Ubiquitous Computing. Since 1995 and resumed in winter Semester 2000-2001

Methods to optimize visualization, Research Coalition, Ministry for Science and Education NRW. Since 1998

Data-mining application for an interactive, multimedia encyclopedia: Associative Thinking as a Premise for Knowledge Acquisition. Since 1997

Navigation tools for dissemination of interactive multimedia knowledge. Since 1997

Virtual Learning Environment. Search and retrieval tools for multimedia knowledge dissemination on the Internet. Since 1996

SOPHIA-Digital Dissemination of Knowledge. New methods and new concepts. International effort to evaluate and design alternative educational methods and concepts using digital multimedia. Since 1994

Why Johnny Doesn't Have to Read. Manuscript describing civilization of illiteracy to the general reader. Since 1994

Research Projects

Concluded:

City Guide to Wuppertal, in collaboration with Rundschau Publishing. 2001

Anticipation. Investigation of the main topics in Anticipation for an interactive multimedia presentation book, DVD, Website (www.anticipation.info). 1999-2001

VISION 2010. Research project on mobility in the context of an information society. DaimlerChrysler AG, Research Center, Berlin. January-November 2000

Family Building (Wipperfurth, Germany). A multimedia knowledge transfer project. Since 2000

From WAP to UMTS. Begun in Spring Semester 2000 (results posted on the Web)

MP3: New Applications. Begun in Spring Semester 2000 (results posted on the Web)

Anticipation – applied aspects: trust, new computer architectures, with Norman Group, Solingen, Germany. 1998-2000

The Civilization of Illiteracy, 1980-1996

Bosnia-Herzegovina: a multimedia CD-ROM project to raise awareness of the values of this historically multicultural country, 1995-1996

Image preservation and access (El Lissitzky, Gaudi, Frank Stella). 1990-1994

Docent™ and MetaDocent™ —a Hypercard tool for creating hyperstacks, for search of text and visual databases, and for authoring (at Belser Knowledge Services, in collaboration with Incredible Interactivity). December, 1990-1992. After prototype in Hypercard was finished, porting to MS-DOS and UNIX was pursued

Author and principal investigator, *Visualization,* 1985-1989

Creating Effective Advertising. Book contracted by Consultant Press, New York, 1990-1994

Understanding Prehistoric Images in the Posthistoric Age: A cognitive project, 1991-1994

Conversion of hypercard to CD-ROM (at Belser Knowledge Services, in collaboration with Museum Graphics), 1990-1992

High-definition storage systems for library preservation and retrieval (at Belser Knowledge Services, in collaboration with REBO and SONY), 1989-1992

Author and principal investigator *Models of the Mind,* Ludwig Maximilan University, Munich, Germany, 1987-1991

ARKETEK™ computer- based modular design and learning environment. Finalist for the international competition Design the Future, Tokyo, Japan. November-December 1990

Multi-media platforms for instruction, Art & Design Division, Fashion Institute of Technology, NY, January-June 1990

Author and principal investigator, *Design Machine,* Ohio State University. 1986-1989

Author and principal investigator, *The Intelligence of the Photographic Eye,* Ohio State University, 1987-1988

Author and principal investigator, Artists and Computers-the Synergy of Change, Ohio State University, 1985-1988.

Author and co-investigator, *Graphics for the Supercomputer,* Ohio State University, 1985-1988

Co-author (with Betty Collings), *Computer Graphics/Sculptural Geometry.* The Artists' Organization, Columbus, OH, 1987-1988

Author and principal investigator, *Computers in Art and Design Education,* Rhode Island School of Design, 1983-1984

Author and co-investigator, *Iconic interface,* Apple Computer, Inc., 1982

Author and co-investigator, *The Semiotics of the Visual,* Rhode Island School of Design and Semiotic Society of America, 1981-1982

Author and principal investigator, *Sign and Value,* Humboldt Foundation, Germany, 1980-1981

Author and principal investigator, *The Semiotics of the Energy Crisis,* Kodikas/Code and RWE, Düsseldorf, Germany, 1979-1980

Author and co-investigator, *Semiotics of Advertisement*. University of Essen, Germany, 1979-1980

Author and principal investigator, *The Semiotics of Computer-Aided Human Activity,* Rochester Institute of Technology, 1984

Author and co-investigator: *Teletext/Videotex—from Alpha-Mosaic to Alpha-Geometric, Design Implications,* Colony Communications, Providence, RI, 1982-1985

Author and co-investigator, *The visual metaphor,* Rhode Island School of Design, Providence, 1981

Author and principal investigator, *Aesthetics of computer graphics,* AAIF Research Grant, 1979-1982

Consulting

At the invitation of the Office of the Prime Minister of Singapore, Dr. Nadin was invited to make 2 presentations in the framework of *Social System Analysis and Risk Assessment Horizon Scanning* – a 2-day workshop on the subject of exploring the possibilities available for anticipating social change. Organized by the National Security Coordinating Center, the Arlington Institute, Singapore, July 19-20, 2007. His presentations are:
1. Anticipation and risk Assessment and Behavioral Modeling
2. Gaming: Horizon scanning through massively multi-player online role playing games (MMORPG)

Salve Regina University, Newport, RI. Evaluation of Ph.D. Program in the Humanities from the perspective of Technological Change, 2004

University of Bremen, Computer Science Department. Evaluation of program in Multimedia Computation, 2003

Sony. Interactive DVD tool development, 2001-2002

SUN. Applications of anticipatory mechanisms to JAVA development, 2001-2002

Scientific Advisory Board of the Danish National Science Foundation, 2000

Corporate identity/Branding for the PKA: Karnasch Engineering Group, Essen, Germany, February 1999

WDR (West German Television). Virtual sets, since February 1998

Advisory Board on Multimedia for the Rektorenkonferenz (Board of University Presidents), North-Rhine Westphalia, Germany, since January 1997

Industrie und Handelskammer, Wuppertal, Germany. Multimedia and Internet for local business, 1996

Westmark, GmbH., Germany. Product development and marketing, 1996

Search and retrieval system for world-wide hotel reservation system, 1995-1996

City of Solingen, Germany. Concepts for Internet presence & applications, 1995

City of Wuppertal, Germany. Concepts for Internet presence & applications, 1995

Development of complete courseware for V6.0, V7.0, Alias/Wavefront, Inc., 1994-1996

Program in Electronic Filmmaking and Digital Video Design, Fairleigh Dickinson University, Madison, NJ, November 1993-February 1994

Computers in Curricula Grant Program, New Jersey Department of Higher Education. Evaluation for expansion of computer design curriculum, May 1993

New Media Showcase-a resource book of applied digital technology for creative purposes. American Showcase, Inc., New York, NY: 1991, 1992, 1993, 1994, 1995

Development of program in visual communication (graphic design, computer-aided design and printing, computer-aided visual communication, electronic photography), Hadassah College, Jerusalem, Israel, January 1989

Development of Belser Wissenschaftlicher Dienst /Belser Knowledge Services (the electronic publishing branch of Belser Publishers (Stuttgart/Zürich): Extension of computer laboratory installed at the Vatican, development of video laser discs and CD-ROM, software development, 1989-1992

Patrick Media Group, Scranton, PA. Consulting for visual communication and new communication technologies, 1988-1989

Youthland, Inc. Columbus, OH. Research and development for private label design and marketing strategies, 1988-1989

Belser interactive videodiscs: cooperative project of Belser Verlag (Stuttgart, Zürich) and the University of Essen, 1987-1991

Illinois Institute of Technology, Chicago. Framework (educational, instructional, research, etc.) for a Ph.D. program in computer design, 1987

Seton Hall University, South Orange, NJ. Computer graphics and desktop publishing program (educational, instructional, and technical advice), 1987

Massachusetts Bay Transportation Authority. Visual communication for system-wide signage and information graphics project, October, 1985-October 1986

University of Wuppertal, Germany. Use of computers in a design education program, 1986

Development of Advanced Computer Center for Arts and Design, Ohio State University,
Mid-1985 through 1986

Consulting, computers and computer graphics. School of Architecture and Allied Arts, University of Oregon (Eugene), 1985

From Lisa's User Interface to Apple Corporate Language (for Apple Computer, Inc. Cupertino, CA), l984

System Guidelines for Hospital Trust Corporation and its subsidiaries. Rhode Island Hospital Trust, Providence, 1983

A plan for implementing computers in a school of art and design: *Design with Computers, Design for Computers, Computers for Design—Enhanced Creativity: Proposal for a Computer Implementation Model for a College of Art and Design.* Rhode Island School of Design, 1983

M.A.N. (high technology conglomerate), Nuremberg, Germany, 1980-1981

R.W.E. (energy and high technology conglomerate), Düsseldorf, Germany, 1980-1981

Siemens, Munich, Germany, 1980

Consulting for product development, KRUPS (household technology), Solingen, Germany, 1979-1980

Courses taught (from present to past)

> Interdisciplinary Approaches to Art and Technology
>
> Inventing the Future / Computational Design
>
> Aesthetics of Interactive Arts
>
> Special Topics in the Arts & Technology
>
> Anticipation, Games, and Brain Plasticity (Seminar)
>
> Story Lab
>
> Anticipation and Games
>
> Computational Design
>
> Technology and the visual
>
> The Design of Digital Media
>
> Advanced Topics in Digital Media
>
> Foundations of Digital Media
>
> Anticipation and the Creative Process
>
> The Age of Computation: Pragmatic Foundations and Implications
>
> Memetics
>
> Computational Design
>
> Designing for the World-Wide Web
>
> Ubiquitous computing
>
> 3D images
>
> Virtual reality
>
> Models of the mind
>
> Visualization
>
> Definitions of design (for OSU Industrial Design Department)
>
> Art, design, and technology (a graduate seminar)
>
> Visible language/semiotics of the visual
>
> The Name of the Rose: semiotics of the post-modern novel
>
> Videotex/teletext: graphic design issues
>
> Graphic design principles for computer-supported visual communication
>
> Wittgenstein on culture and value
>
> Semiotics of computer-aided human activity
>
> Artificial intelligence: issues in art and design
>
> Applying semiotics to the arts
>
> Language and art
>
> Epistemological foundations of semiotics
>
> Epistemology

Language and power

Foundations of semiotics

Wittgenstein's remarks on color

Graduate seminar in design (electronic publications, CAD, semiotics)

Philosophy of cybernetics

Art after art

Semiotics of visual communication

Visual semiotics -visible language

The relevance of the semiotic perspective

Art and utopia

What is philosophy? (Heidegger, et al)

The semiotic field

Field theory applied to the humanities

Social and political semiotics

Narrativity

Fuzzy sets applied to semiotics

Fuzzy sets applied to aesthetic analysis

Aesthetics of the performing arts

Verbal and non-verbal systems of communication

Information aesthetics

Logical and informational analysis of art (theater, film, painting, music)

System theory in the humanities

Computer programming for application to language, literature, art (PASCAL)

    Semiotics vs. semiology (de Saussure, Peirce, Husserl, Brentano, Boole, Morris, etc.)

Logical foundation of semiotics (Peirce, Husserl)

Scientific foundation of semiotics

Scientific foundation of aesthetics

Science theory; scientific progress; comparison of scientific theories

Value and evaluation

Moral and aesthetic values

Language and thought

Marxism vs. phenomenology

Neo-Marxist philosophy

Methodology of philosophy

History of philosophy

Electronic circuits

Signal processing

Microelectronics

Automation and command of industrial processes

Miscellaneous activities and publications

A Sense of the Future, excerpt from The Civilization of Illiteracy (Dresden University Press, 1997) in Ubiquity, an Internet publication of the ACM, 2001 http://www.acm.org/ubiquity/book/m_nadin_2.html

Pro-action vs. Re-Action, excerpt from *Anticipation—a Spooky Computation* (CASYS 99, vol. 6, pp. 3-47) in Ubiquity, an Internet publication of the ACM, 2000
http://www.acm.org/ubiquity/views/m_nadin_1.html

Incidental reporting:
Pina Bausch: 25 Years of Dance Revolution, in *American Reporter* #4:938, November 11, 1998
Schröder Goes To Washington, in *American Reporter* #4:911, October 6, 1998
I Want My Vacation, in *American Reporter* #4:893, September 15, 1998
Conscience of a Nation? in *American Reporter* #663, October 23, 1997
Toward a Truly Global Internet, in *American Reporter* #664, October 22, 1997
Europe's New Currency Has a Long Way to Go, in *American Reporter* #656, October 16, 1997
Free State Hamburg Cast a Strange Vote, in *American Reporter* #642, September 24, 1997

Verwandlung. Organizer of photography exhibit, Galerie 1740, Hagen, Germany, September 24-November 15,1995

Permanent contributor to *LIVING* (a quarterly magazine for modern culture), Cologne, Germany, since 1994. Articles entitled: The Digital Eye Revisited, 1996; The Architecture of Thought, 1995; The Message is the Medium, 1995; Report from Hyperspace, 1994; Famous Turning Points, 1994.

Graphic User Interfaces, (Forum), in *Communications of the ACM,* vol. 36, no. 12, December 1993. pp. 15-16

Farewell/Gateway: In memoriam to Vilem Flusser, in Leonardo, 25:2, 1992. pp. 114-115

Art in the Romantic Realm of Emotion and Intuition. The Paintings of Bob Guccione. Ambassador Gallery, New York, 1992.

Enthusiasmus and Erlaubnis zu Denken (Enthusiasm and Permission to Think), 2 short stories in *Am Kap der Guten Hoffnung* (G. Stebner, Ed.), Essen: Die Blaue Eule, 1990

Decoding the Sign in Design, interview in *CG Magazine,* December 1988

Book review of Travels in Hyperreality by Umberto Eco, in *The Arts Education Review of Books*, Columbus: OSU Press, 1988

Bauhaus Photography. Foreword: Eugene Prakapas. Book review in *The Arts Education Review of Books,* vol. 3, no. 3, Columbus: OSU Press, 1987

One Year Later (Guest Editorial), in *Columbus Art,* vol. 81, no. l, Spring 1987, pp. 3-4

Ion Dreptu, in *Columbus Art,* December 1986-January 1987, pp. 11-12

Book review of André Helbo, Les mots et les gestes: Essai sur le théâtre, in *Poetics Today,* 7:2, 1986, pp. 360-361

I am my questions (Guest Editorial), in *Columbus Art,* vol. 7, no. l (Winter 1986), p. 4

Book review of Language as a Cognitive Process by Terry Winograd, in *Artificial Intelligence* 27 (1985), pp. 353-361

Book review of The Cybernetics of Art: Reason and the Rainbow by M.J. Rosenberg, in *The Arts Education Review of Books*. Columbus: OSU Press, 1986

Video-Game Makers Discover a New, Older, Market. At the University of Texas at Dallas, Mihai Nadin is testing a game that simulates walking through a city. Gamers walk on a sensor, following directions on a screen and avoiding obstacles. December 7, 2006. : http://www.npr.org/templates/story/story.php?storyId=6589941

Video games aim to spice up old people's lives by Virginie Montet, Sep 30, 10:59 AM ET in Yahoo News

Will machines of the future be able to accurately predict the outcome of certain situations and adjust their actions accordingly? We'll discuss anticipatory systems the first part of the hour with Dr. Mihai Nadin, Ashbel Smith Professor and director of antÉ, the Institute for Research in Anticipatory Systems, at The University of Texas at Dallas.
http://www.kera.org/radio/GMS/ProgramDetails.lasso?&id=4352&program=mitchell&show=The%20Glenn%20Mitchell%20Show

UTD Professor a step ahead with research into anticipation, Dallas Morning News, March 9, 2006

The Civilization of Illiteracy, excerpt in *Educom Review,* (a bimonthly print magazine on information technology and education), March/April 1998.

The crisis of the institutions, *Berliner Tagespost*, February 24, 1998

Plumbers 2020, in *Page,* 2/98, p. 18

Electronic Quill, December 1997. http://www.giraffe.com/gr_quill.html

Mathematics in an Age of Illiteracy (book review), in *SIAM News,* November 1997

On the cutting edge, in *Form online,* no. 3, Nov. 1-13, 1997. http://www.form.de/edu/index.html

A Pioneer in Multimedia (p. 11) , and More Than Pressing Sound and Pictures (p. 28), in *Westdeutsche Zeitung, Solingen Tageblatt,* and *Remscheider General Anzeiger*, (special issue dedicated to the 25th anniversary of the University of Wuppertal), October 14, 1997

Edupage - an Internet publication of Educom, a US based consortium of leading colleges and universities seeking to transform education through the use of information technology

Portrait: Mihai Nadin teaches Computational Design in Wuppertal, in *Bergische Wirtschaft,* March, 1996, pp. 70-73

Computer Interface, in *Spiegel*, special issue entitled A Century of Design, no. 6, 1995, pp. 175-179

Digitale Zukunftspläne. Computer-Pioniere im Fachbereich Design/ Bundesweit einmalig (Plans for the digital future. Pioneer in computation at the Design School/ Program unique in the entire country), in *Westdeutsche Zeitung,* June 14, 1995

Neuer Flügelschalg eines alten Schmetterlings (An old butterfly flaps its wings anew), in *Die Welt*, April 27, 1995, p. 10

Leidenschaftliches Plädoyer für ein neues Denken (An Impassioned Plea for a New Way of Thinking), in *Braunschweiger Zeitung,* January 11, 1991

Voice of America: radio interview on the topic of new technologies, 1988

Roads' Scholar. Presentation of my work in visual semiotics and computer graphics, in *Impressions,* Spring 1988, Scranton, PA: Patrick Media Group

Eine lebende Synthese von Kunst und Technik (A Living Synthesis of Art and Technology), page dedicated to my work in *Bilder Digital,* Munich, Germany, January 1988

What next? Panel discussion on the future of computer-aided communication, *CG Magazine,* December 1988