References

Aldwell E. & Schachter C. (1978) *Harmony and Voice Leading. Vol. 1.* New York: Harcourt Brace Jovanovich.

Allen P.E. & Dannenberg R.B. (1990) Tracking Musical Beats in Real Time. *Proceedings of the International Computer Music Conference'1990.* San Francisco: Computer Music Association, 140–143.

Aloimonos J. & Shulman D. (1989) *Integration of Visual Modules.* Boston: Academic Press.

Ashton A. (1971) *Electronics, Music, and Computers.* Salt Lake City: University of Utah, Computer Science Department, UTEC-CSc-71-117.

Askenfelt A. (1976) Automatic Notation of Played Music. Stockholm: Royal Institute of Technology, Report STL–QPSR 1/1976, 1–11.

Attneave F. (1954) Some Informational Aspects of Visual Perception. *Psychological Review,* 61, 183–193.

Attneave F. (1982) Prägnanz and Soap-Bubble Systems: A Theoretical Explanation. In: Beck J. (Ed.) *Organization and Representation in Perception.* Hillside, New Jersey: Erlbaum.

Bamberger J. (1980) Cognitive Structuring in the Apprehension of Simple Rhythms. *Archives de Psychologie,* 48, 171–199.

Barlow H.B. (1972) Single Units and Sensation: A Neuron Doctrine for Perceptual Psychology? *Perception,* 1, 371–394.

Barlow H.B., Narasimmhan R., & Rosenfeld A. (1972) Visual Pattern Analysis in Machines and Animals. *Science,* 177, 567–575.

Barrow H.G. & Tenenbaum J.M. (1993) Retrospective on "Interpreting Line Drawings as Three-Dimensional Surfaces." *Artificial Intelligence,* 59, 71–80.

Benade A.H. (1976) *Fundamentals of Musical Acoustics.* New York: Oxford University Press.

Bergevin R. & Levine M. (1993) Generic Object Recognition: Building and Matching Coarse Descriptions from Line Drawings. *IEEE Transactions on Pattern Analysis and Machine Intelligence,* 15(1), 19–36.

Berlioz H. (1855) *Grand traité d'instrumentation et d'orchestration moderne.* Paris: Schonenberger.

Birkhoff G. & Mac Lane S. (1965) *A Survey of Modern Algebra.* New York: MacMillan.

Blake A. & Marinos C. (1990) Shape from Texture: Estimation, Isotropy and Moments. *Artificial Intelligence,* 45, 323–380.

Bolles R.S. & Cain R.A. (1982) Recognizing and Locating Partially Visible Objects: The Local-Feature-Focus Method. *International Journal of Robotics Research,* 1(3), 57–82.

Boroda M.G. (1985) On Some Rules of Rhythmic Recurrence in Folk and Professional Music. *Kompleksnoye Izutcheniye Muzykalnogo Tvortchestva: Kontzepziya, Problemy, Perspektivy.* Tbilisi: Nauka, 135–167. (Russian).

Boroda M.G. (1988) Towards the Basic Semantic Units of a Musical Text. *Musikometrika,* 1. Bochum: Brockmeyer, 11–68.

Boroda M.G. (1991) The Concept of "Metrical Force" in Music with Bar Structure. *Musikometrika,* 3. Bochum: Brockmeyer, 59–94.

Bouman Ch. (1991) Multiple Resolution Segmentation of Textural Images. *IEEE Transactions on Pattern Analysis and Machine Intelligence,* 13(2), 99–113.

Bregman A.S. (1990) *Auditory Scene Analysis: The Perceptual Organization of Sound.* Cambridge, Massachusetts: M.I.T. Press.

Brooks R. (1981) Symbolic Reasoning Among 3-Dimensional Models and 2-Dimensional Images. *Artificial Intelligence,* 17, 285–349.

Cadoz C. (1991) Timbre et causalite. In: Barrière J.-B. (ed.) *Le timbre. Métaphore pour la composition.* Paris: IRCAM, Christian Bourgois Editeur, 17–46.

Calude C. (1988) *Theories of Computational Complexity.* Amsterdam: North-Holland.

Chafe C. & Jaffe D. (1986) Source Separation and Note Identification in Polyphonic Music. *Proceedings of the IEEE–IECEJ'ASJ International Conference on Acoustics, Speech, and Signal Processing, Tokyo, 1986,* 1289–1292.

Chafe C., Jaffe D., Kashima K., Mont-Reynaud B., & Smith J. (1985) Techniques for Note Identification in Polyphonic Music. *Proceedings of the International Computer Music Conference'1985.* San Francisco: Computer Music Association, 399–405.

Chafe C., Mont-Reynaud B., & Rush L. (1982) Toward an Intelligent Editor of Digital Audio: Recognition of Musical Constructs. *Computer Music Journal,* 6(1), 30–41.

Chateauneuf A. (1993) *Letter to A.Tanguiane.* Paris, 7th April 1993.

Clarke E. (1987) Categorical Rhythm Perception, an Ecological Perspective. In: Gabrielsson A. (Ed.) *Action and Perception in Rhythm and Music.* Stockholm: Publication of Royal Swedish Academy of Music No. 55.

Clarke E. & Krumhansl C.L. (1990) Perceiving Musical Time. *Music Perception,* 7, 213–252.

Clynes M. (1977) *Sentics: The Touch of Emotions.* New York: Doubleday Anchor.

Clynes M. (1983) Expressive Microstructure in Music Linked to Living Qualities. In: Sundberg J. (Ed.) *Studies in Music Performance.* Stockholm: Publication of Royal Swedish Academy of Music No. 39, 76–181.

Dannenberg R.B. & Bookstein K. (1991) Practical Aspects of a MIDI Conducting Program. *Proceedings of the International Computer Music Conference'1991.* Montreal: Faculty of Music, McGill University, 537–540.

Dannenberg R.B. & Mont-Reynaud B. (1987) Following an Improvisation in Real Time. *Proceedings of the International Computer Music Conference'1987.* San Francisco: Computer Music Association, 241–248.

Darwin C.J. (1984) Perceiving Vowels in the Presence of Another Sound: Constants on Formant Perception. *Journal of the Acoustical Society of America,* 76, 1636–1647.

Desain P. (1992) A (De)Composable Theory of Rhythm. *Music Perception,* 9(4).

Desain P. & Honing H. (1989) Quantization of Musical Time: A Connectionist Approach. *Computer Music Journal,* 13(3), 56–66.

Desain P. & Honing H. (1991) Tempo Curves Considered Harmful. *Proceedings of the International Computer Music Conference'1991.* Montreal: Faculty of Music, McGill University, 143–149.

Desain P., Honing H., & de Rijk K. (1989) A Connectionist Quantizer. *Proceedings of the International Computer Music Conference'1989.* San Francisco: Computer Music Association, 80–85.

Dumesnil R. (1979) *Le Rythme musical.* Paris–Geneve: Slatkine Reprints, serie "Ressources".

Ellis D. & Vercoe B. (1991) A Wavelet-Based Sinusoid Model of Sound for Auditory Signal Separation. *Proceedings of the International Computer Music Conference'1991.* Montreal: Faculty of Music, McGill University, 86–89.

Fischer M.A. & Bolles R.C. (1983) Perceptual Organization and the Curve Partitioning Problem. *Proceedings of the 8th Joint Conference on Artificial Intelligence'83, Karlsruhe,* 1014–1018.

Foster S., Schloss W.A., & Rockmore A.J. (1982) Toward an Intelligent Editor of Digital Audio: Signal Processing Methods. *Computer Music Journal,* 6(1), 42–51.

Fraisse P. (1983) Rhythm and Tempo. In: Deutsch D. (Ed.) *The Psychology of Music.* London: Academic Press.

Frances R. (1972) *La perception de la musique.* 2nd ed. Paris: Librairie philosophique J.Vrin.

Freeman W.J. (1979) EEG Analysis Gives Models of Neuronal Template Matching Mechanism for Sensory Search with Olfactory Bulb. *Biological Cybernetics,* 35, 221–234.

Friedland N.S. & Rosenfeld A. (1992) Compact Object Recognition Using Energy-Function-Based Optimization. *IEEE Transactions on Pattern Analysis and Machine Intelligence,* 14(7), 770–777.

Gelfand S.A. (1981) *Hearing. An Introduction to Psychological and Physiological Acoustics.* New-York–Basel: Marcel Dekker.

Gibson J.J. (1950) *The Perception of the Visual World.* Boston: Houghton Mifflin.

Gibson J.J. (1966) *The Senses Considered as Perceptual Systems.* Boston: Houghton Mifflin.

Gibson J.J. (1979) *The Ecological Approach to Visual Perception.* Boston: Houghton Mifflin.

Giunchiglia F. & Walsh T. (1992) A Theory of Abstraction. *Artificial Intelligence,* 57, 323–389.

Gong S. & Buxton H. (1992) On the Visual Expectations of Moving Objects. *Proceedings of the 10th European Conference on Artificial Intelligence'92, Vienna.* Wiley: Chichester, 781–784.

Gut S. (1976) Intervalle. In: Honnegger M. (Ed.) *Dictionnaire de la Musique. Science de la Musique. Formes, Technique, Instruments. Vol. 1.* Paris: Bordas.

Handel S. (1989) *Listening: An Introduction to the Perception of Auditory Events.* Hillside, New Jersey: Erlbaum.

Helmholtz H. (1877) *On the Sensation of Tone as a Psychological Basis for the Study of Music.* 4th ed. English transl.: New York: Dover, 1954.

Hewlett H.B. & Selfridge-Field E. (Eds.) (1990) *Computing in Musicology. A Directory of Research.* Menlo Park, California: Center for Computer-Assisted Research in the Humanities.

Hewlett H.B. & Selfridge-Field E. (Eds.) (1991) *Computing in Musicology. A Directory of Research.* Menlo Park, California: Center for Computer-Assisted Research in the Humanities.

Hochberg J. & McAlister E. (1953) A Quantitative Approach to Figural "Goodness". *Journal of Experimental Psychology,* 46, 361–364.

Hoffmann A.G. (1992) Phenomenology, Representations and Complexity. *Proceedings of the 10th European Conference on Artificial Intelligence'92, Vienna.* Wiley: Chichester, 610–614.

Horn B.K.P. (1975) Obtaining Shape from Shading Information. In: Winston P.H. (Ed.) *The Psychology of Computer Vision.* New York: McGraw-Hill.

Horn B.K.P. (1986) *Robot Vision.* New York: McGraw-Hill.

Horn B.K.P. & Schunck B.G. (1981) Determining Optical Flow. *Artificial Intelligence,* 17, 185–203.

Horn B.K.P. & Schunck B.G. (1993) "Determining Optical Flow": A Retrospective. *Artificial Intelligence,* 59, 81–87.

Horn B.K.P. & Weldon Jr. (1988) Direct Methods for Recovering Motion. *International Journal of Computer Vision,* 2(1), 51–76.

Hummel R. (1987) The Scale-Space Formulation of Pyramid Data Structures. In: Uhr L. (Ed.) *Parallel Computer Vision.* Boston: Academic Press.

Ikeuchi K. (1993) Comment on "Numerical Shape from Shading and Occluding Boundaries." *Artificial Intelligence,* 59, 89–94.

Ikeuchi K. & Horn B.K.P. (1981) Numerical Shape from Shading and Occluding Boundaries. *Artificial Intelligence,* 17, 141–184.

Kanade T. (1993) From a Real Chair to a Negative Chair. *Artificial Intelligence,* 59, 95–101.

Kanatani K. (1984) Detection of Surface Orientation and Motion from Texture by a Stereological Technique. *Artificial Intelligence,* 23, 213–237.

Kanatani K. & Chou T. (1989) Shape from Texture: General Principle. *Artificial Intelligence,* 38, 1–48.

Kass M., Witkin A., Terzopoulos D., & Barr A. (1988) Snakes: Active Contour Models. *International Journal of Computer Vision,* 1, 321–331.

Katayose H. & Inokuchi S. (1989a) The Kansei Music System. *Computer Music Journal,* 13(4), 72–77.

Katayose H. & Inokuchi S. (1989b) An Intelligent Transcription System. *Proceedings of the First International Conference on Music Perception and Cognition, Kyoto, Japan, 17–19 October, 1989,* 95–98.

Katayose H. & Inokuchi S. (1990) The Kansei Music System'90. *Proceedings of the International Computer Music Conference'1990.* Glasgow, 308–310.

Katayose H., Kato H., Imai M., & Inokuchi S. (1989) An Approach to an Artificial Music Expert. *Proceedings of the International Computer Music Conference'1989.* San Francisco: Computer Music Association, 139–146.

Katuar G. (1926) *Muzykalnaya Forma. 1. Ritm.* Moscow. (Russian).

Keller H. (1955) *Schule des Generalbass-spiels.* Kassel:Bärenreiter-Ausgabe 490.

Kendall G.S. & Martens W.L. (1984) Simulating the Cues of Spatial Hearing in Natural Environment. *Proceedings of the International Computer Music Conference'1984.* San Francisco: Computer Music Association, 111–125.

Kendall G.S., Martens W.L., Freed D.J., Ludwig M.D., & Karstens R.W. (1986) Simulating the Cues of Spatial Hearing in Natural Environment. *Proceedings of the International Computer Music Conference'1986.* San Francisco: Computer Music Association, 285–292.

Knowlton P.H. (1971) *Interactive Communication and Display of Keyboard Music.* Ph.D. Dissertation. Salt Lake City: University of Utah.

Knowlton P.H. (1972) Capture and Display of Keyboard Music. *Datamation*, May.

Kolmogorov A.N. (1965) Three Approaches to Defining the Notion "Quantity of Information". *Problemy Peredatchi Informatsii,* 1(1), 3–11. Reprinted in: Kolmogorov A.N. *Theory of Information and Theory of Algorithms.* Moscow: Nauka, 1987, 213–223. (Russian).

Leeuwenberg E.L.J. (1971) A Perceptual Coding Language for Visual and Auditory Patterns. *American Journal of Psychology*, 84, 307–350.

Leeuwenberg E.L.J. (1978) Quantification of Certain Visual Properties: Salience, Transparency, Similarity. In: Leeuwenberg E.L.J. & Buffart H.F.J.M. (Eds.) *Formal Theories in Visual Perception.* Chichester UK: Wiley.

Lerdahl F. & Jackendoff R. (1983) *A Generative Theory of Tonal Music.* Cambridge, Massachusetts: M.I.T. Press.

Leyton M. (1986) Generative Systems of Analyzers. In: Rosenfeld A. (Ed.) *Human and Machine Vision II.* Orlando: Academic Press, 149–189.

Lifshitz L.M. & Pizer S.M. (1990) A Multi-Resolution Hierarchical Approach to Image Segmentation Based on Intensity Extrema. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 12(3), 234–254.

Longuet-Higgins H.C. (1976) The Perception of Melodies. *Nature,* 263, 646–653.

Longuet-Higgins H.C. (1987) *Mental Processes.* Cambridge, Massachusetts: M.I.T. Press.

Longuet-Higgins H.C. & Lee C.S. (1982) The Perception of Music Rhythms. *Perception*, 11, 115–128.

Longuet-Higgins H.C. & Lee C.S. (1984) The Rhythmic Interpretation of Monophonic Music. *Music Perception*, 1, 424–441.

Longuet-Higgins H.C. & Prazdny K. (1984) The Interpretation of a Moving Retinal Image. *Proceedings of the Royal Society,* B208, 385–397.

Marr D. (1982) *Vision.* San Francisco: W.H.Freeman.

Marr D. & Nishihara H.K. (1978) Representation and Recognition of the Spatial Organization of Three-Dimensional Shapes. *Proceedings of the Royal Society*, B200, 269–291.

Marr D. & Poggio T. (1976) Cooperative Computation of Stereo Disparity. *Science*, 194, 283–287.

Martens W.L. (1987) Principal Components Analysis and Resynthesis of Spectral Cues to Perceived Direction *Proceedings of the International Computer Music Conference'1987.* San Francisco: Computer Music Association, 274–281.

McAdams S. (1989) Segregation of Concurrent Sounds. I: Effects of Frequency Modulation Coherence. *Journal of the Acoustical Society of America,* 86, 2148–2159.

McAdams S. (1991a) Segregation of Concurrent Sounds. II: Effects of Spectral Envelope Tracing, Frequency Modualation Coherence, and Frequency Modulation Width. *Journal of the Acoustical Society of America,* 89, 341–351.

McAdams S. (1991b) Perceptual Organization of Audio Environment. In: Nosulenko V. (Ed.) *Problems of Ecological Psychoacoustics.* Moscow: Institute of Psychology of the Academy of Sciences, 28–50. (Russian).

McAdams S. (1993) Recognition of Sound Sources and Events. In: Bigand E. & McAdams S. (Eds.) *Thinking in Sound: Cognitive Perspectives on Human Audition.* Oxford: Oxford University Press, 146–198.

McAdams S. & Bregman A. (1979) Hearing Musical Streams. *Computer Music Journal,* 3(4), 26–43, 60, 63. Reprinted in: Roads C. & Strawn J. (Eds.) *Foundations of Computer Music.* Cambridge, Massachusetts: M.I.T. Press, 1985, 658–698.

Mellinger D. & Mont-Reynaud B. (1991) *Proceedings of the International Computer Music Conference'1991,* Montreal: Faculty of Music, McGill University, 90–93.

Messiaen O. (1944) *Technique de mon langage musical. Vol. 1.* Paris: Leduc.

Meygret A. & Thonnat M. (1990) Segmentation of optical Flow and 3D Data for the Interpretation of Mobile Objects. *Proceedings of the 3rd International Conference on Computer Vision, Osaka.* 238–245.

Michon J.A. (1964) Studies on Subjective Duration. *Acta Psychologica,* 222, 441–450.

Milner P.N. (1974) A Model for Visual Shape Recognition. *Psychological Review,* 81(6), 521–535.

Minsky M. & Papert S. (1988) *Perceptrons.* 2nd ed. Cambridge, Massachusetts: M.I.T. Press.

Minsky M. (1975) A Framework for Representing Knowledge. In: Winston P.H. (Ed.) *The Psychology of Computer Vision.* New York: McGraw-Hill.

Mohan R. & Navatia R. (1992) Perception of 3-D Surfaces from 2-D Contours. *IEEE Transactions on Pattern Analysis and Machine Intelligence,* 14(6), 616–635.

Mont-Reynaud B. (1985) Problem-Solving Strategies in a Music Transcription System. *Proceedings of the 9th International Joint Conference on Artificial Intelligence.* Los Angeles, 916–918.

Mont-Reynaud B. & Goldstein M. (1985) On Finding Rhythmic Patterns in Musical Lines. *Proceedings of the International Computer Music Conference'1985.* San Francisco: Computer Music Association, 391–397.

Mont-Reynaud B. & Gresset E. (1990) PRISM: Pattern Recognition in Sound and Music. *Proceedings of the International Computer Music Conference'1990.* Glasgow, 153–155.

Mont-Reynaud B. & Mellinger D. (1989) Source Separation by Frequency Co-Modulation. *Proceedings of the First International Conference on Music Perception and Cognition, Kyoto, Japan, 17–19 October, 1989,* 99–102.

Moore B.C.J. (1982) *Introduction to the Psychology of Hearing.* 3rd ed. London: Academic Press.

Moore F.R. (1978) An Introduction to the Mathematics of Digital Signal Processing. *Computer Music Journal,* 2(1), 38–47; 2(2), 38–60. Reprinted in: Strawn J. (Ed.) *Digital Audio Signal Processing: An Anthology.* Madison: A-R Edition, 1985, 1–67.

Moorer J.A. (1975) *On the Segmentation and Analysis of Continuous Musical Sound by Digital Computer.* Ph.D. Thesis. Stanford: Stanford University, Dep. of Music Report STAN-M-3.

Moorer J.A. (1977) On the Transcription of Musical Sound by Computer. *Computer Music Journal,* 1(4), 32–38.

Morita S., Kawashima T., & Aoki Y. (1992) Hierarchical Shape Recognition Based on 3-D Multiresolution Analysis. In: Sandini G. (Ed.) *Computer Vision – ECCV'92.* Lecture Notes in Computer Science 588. Berlin: Springer, 843–851.

Moses Y. & Ullman S. (1992) Limitations of Non-Model-Based Recognition Schemes. In: Sandini G. (Ed.) *Computer Vision – ECCV'92.* Lecture Notes in Computer Science 588. Berlin: Springer, 820–828.

Navab N. & Zhang Z. (1992) From Multiple Objects Motion Analysis to Behavior-Based Object Recognition. *Proceedings of the 10th European Conference on Artificial Intelligence'92, Vienna.* Wiley: Chichester, 790–794.

Neisser U. (1966) *Cognitive Psychology.* New York: Appelton-Century-Crofts.

Niihara T. & Inokuchi S. (1986) Transcription of Sung Song. *Proceedings of the International Conference on Acoustics, Speech, and Signal Processing'86, Tokyo, April 7–11, 1986,* 1277–1280.

Oppenheim A.V. & Schafer R.W. (1975) *Digital Signal Processing.* Englewood Cliffs, New Jersey: Prentice-Hall.

Palmer S.E. (1975) Visual Perception and World Knowledge: Notes on a Model of Sensory-Cognitive Interaction. In: Norman D.A., et al. (Eds.) *Exploration in Cognition.* Hillsdale, New Jersey: Erlbaum.

Palmer S.E. (1982) Symmetry, Transformation, and the Structure of Perceptual Systems. In: Beck J. (Ed.) *Organization and Representation in Perception.* Hillsdale, New Jersey: Erlbaum.

Palmer S.E. (1983) The Psychology of Perceptual Organization: A Transformational Approach. In: Beck J., Hope B., & Rosenfeld A. (Eds.) *Human and Machine Vision.* New York: Academic Press, 269–339.

Pentland A. & Horowitz B. (1991) Recovery of Nonrigid Motion and Structure. *IEEE Transactions on Pattern Analysis and Machine Intelligence,* 13(7), 730–742.

Pistone D. (1977) Tempo. In: Honnegger M. (Ed.) *Dictionnaire de la Musique. Science de la Musique. Formes, Technique, Instruments.* Paris: Bordas.

Piszczalski M. & Galler B.A. (1977) Automatic Music Transcription. *Computer Music Journal,* 1(4), 24–31.

Piszczalski M., Galler B.A., Bossemeyer R., Hatamian M., & Looft F. (1981) Performed Music: Analysis, Synthesis, and Display by Computer. *Journal of the Audio Engeneering Society,* 29(1/2), 38–46.

Pitts W. & McCulloch W.S. (1947) How we Know Universals: The Perception of Auditory and Visual Forms. *Bulletin of Mathematical Biophysics*, 9, 127–147.

Pollard H. (1950) *The Theory of Algebraic Numbers.* Baltimore: Mathematical Association of America/Wiley.

Porte D. (1977) Rythme. In: Honnegger M. (Ed.) *Dictionnaire de la Musique. Science de la Musique. Formes, Technique, Instruments.* Paris: Bordas.

Posner M.I. (1978) *Chronometric Explorations of Mind.* Hillside, New Jersey: Erlbaum.

Posner M.I. & Henik A. (1983) Isolating Representational Systems. In: Beck J., Hope B., & Rosenfeld A. (Eds.) *Human and Machine Vision.* New York: Academic Press, 481–543.

Povel D.J. & Essens P. (1985) Perception of Temporal Patterns. *Music Perception,* 2(4), 411–440.

Preparata F.P. & Shamos M.I. (1985) *Computational Geometry.* New York: Springer.

Pridmore T.P., Mayhew J.E.W., & Frisby J.P. (1990) Exploiting Image-Plane Data in the Interpretation of Edge-Based Binocular Disparity. *Computer Vision, Graphics, and Image Processing*, 52, 1–25.

Rabiner L.R. & Gold B. (1975) *Theory and Applications of Digital Signal Processing.* Englewood Cliffs, New Jersey: Prentice-Hall.

Rangarajan K. & Shah M. (1991) Establishing Motion Correspondence. *Computer Vision, Graphics, and Image Processing: Image Understanding,* 54(1), 56–73.

Raynaut F. & Samuel A. Oriented Shift of Representational Bias for Elementary Patterns. *Proceedings of the 10th European Conference on Artificial Intelligence'92, Vienna.* Wiley: Chichester, 487–489.

Rédei L. (1967) *Algebra. Vol. 1.* Oxford: Pergamon Press.

Richard D.M. (1990) Gödel Tune: Formal Models in Music Recognition Systems. *Proceedings of the International Computer Music Conference'1990.* Glasgow, 338–340.

Richards W. & Hoffmann D. (1986) Parts of Recognition. In: Pentland A.P. (Ed.) *From Pixels to Predicates.* Norwood, New Jersey: Albex Publishing Corp.

Risset J.-C. (1971) Paradoxes de hauteur: le concept de hauteur sonore n'est pas le même pour tout le monde. *Proceedings of the 7th International Congress of Acoustics.* Budapest, 205–210.

Risset J.-C. (1978) *Paradoxes de hauteur.* Paris: IRCAM Report No. 10.

Roads C. (1980) Artificial Intelligence and Music. *Computer Music Journal,* 4(2), 13–25.

Roads C. (1982) McLeyvier Music Transcriber. *Computer Music Journal,* 6(2), 90–91.

Roads C. (1987) Sinclavier Music Printing. *Computer Music Journal,* 11(2), 77–78.

Rock I. (1983) *The Logic of Perception.* Cambridge, Massachusetts: M.I.T. Press.

Roederer J.G. (1975) *Introduction to Physics and Psychophysics of Music.* New York: Springer.

Rosenthal D. (1988) A Model of the Process of Listening to Simple Rhythms. *Proceedings of the 14th International Computer Music Conference.* Köln: Feedback-Studio-Verlag, 189–197.

Rosenthal D. (1989) A Model of the Process of Listening to Simple Rhythms. *Music Perception,* 6(3), 315–328.

Rosenthal D. (1992) Intelligent Rhythm Tracking. *Proceedings of the International Computer Music Conference'1992.* San Francisco: Computer Music Association, 227–230.

Rossing T.D. (1990) *The Science of Sound.* 2nd ed. Reading, Massachusetts: Addison-Wesley.

Schloss W.A. (1985) *On the Automatic Transcription of Percussive Music. From Acoustical Signal to High Level Analysis.* Stanford: Stanford University, Dep. of Music Report STAN-M-27.

Shepard R.N. (1964) Circularity in Judgements of Relative Pitch. *Journal of the Acoustical Society of America,* 27, 2346–2353.

Shoham Y. (1988) *Reasoning about Change: Time and Causation from the Standpoint of Artificial Intelligence.* Cambridge, Massachusetts: M.I.T. Press.

Skrjabin A. (1960) *Poem for Piano. Op. 32 No. 1. The Text of Author's Performance by Recording on "Velte-Mignon". Transcribed by P.Lobanov.* Moscow: Gosudarstvennoye Muzykalnoye Izdatelstvo. (Russian).

Sundberg J. & Tjernlund P. (1970) A Computer Program for a Notation of Performed Music. Stockholm: Royal Institute of Technology, Report STL-QPSR 2-3/1970, 46–49.

Tanguiane A.S. (1977) *On Parallel Fifths, Doubling, and Orchestration.* Moscow: Moscow State Conservatory. Typescript. (Russian).

Tanguiane A.S. (1987) *Recognition of Chords for Automatic Note Transcription of Polyphonic Music.* Preprint. Moscow: The All-Union Ethnomusicology Commission of the Union of Composers of the USSR, the Computer Center of the USSR Academy of Sciences. (Russian).

Tanguiane A.S. (1988a) Recognition of Chords, Interval Hearing, and Music Theory. In: Alekseev E., Andreeva E., Boroda M., & Tanguiane A. (Eds.) *Quantitative Methods in Ethnomusicology and Music Theory.* Moscow: Soviet Composer, 155–186. (Russian).

Tanguiane A.S. (1988b) An Algorithm of Recognition of Chords. *Proceedings of the 14th International Computer Music Conference.* Cologne: Feedback-Studio-Verlag, 199–210.

Tanguiane A.S. (1989a) Recognition of Chords with the Help of the Model of Interval Hearing. *Doklady Akademii Nauk SSSR*, 308(3), 552–556. (Russian).

Tanguiane A.S. (1989b) A Model of Relativity of Perception and Its Applications to Pattern Recognition in Analysis of Performed Music. *The First International Conference on Music Perception and Cognition, Kyoto, 17–19 October, 1989,* 261–266.

Tanguiane A.S. (1990) A Principle of Correlativity of Perception and Its Applications to Pattern Recognition. *Matematicheskoye Modelirovaniye*, 2(8), 90–111. (Russian).

Tanguiane A.S. (1991a) Recognition of Chords, Perception Correlativity, and Music Theory. *Musikometrika,* 3. Bochum: Brockmeyer, 163–199.

Tanguiane A.S. (1991b) Criterion of Data Complexity in Rhythm Recognition. *Proceedings of the International Computer Music Conference'1991,* Montreal: Faculty of Music, McGill University, 559–562.

Tanguiane A.S. (1992a) Time Determination by Recognizing Generative Rhythmic Patterns. *Musikometrika,* 4. Bochum: Brockmeyer, 83–99.

Tanguiane A.S. (1992b) Artificial Perception and Music Recognition: a Heuristic Approach. *Proceedings of the 10th European Conference on Artificial Intelligence'92, Vienna.* Wiley: Chichester, 169–173.

Tanguiane A.S. (1992c) Artificial Perception and Music Recognition: Theoretical Grounds. *Advances in Artificial Intelligence—Theory and Application. Proceedings of the 6th International Conference on Systems Research Informatics and Cybernetics, Baden-Baden, 17–23 August, 1992, Vol. II.* Windsor, Ontario: the International Institute for Advanced Studies in Systems Research and Cybernetics, 165–170.

Tanguiane A.S. (1993) A Model of Correlative Perception and Its Applications to Music Recognition. *Music Perception.* (Forthcoming).

Teaney D.T., Mourizzi V.L., & Mintzer F.C. (1980) The Tempered Fourier Transform. *Journal of the Acoustical Society of America,* 67(6), 2063–2067.

Terzopoulos D., Witkin A., & Kass M. (1988) Constraints on Deformable Models: Recovering 3D Shape and Nonrigid Motion. *Artificial Intelligence* 36(6), 91–123.

Thibadeau R. (1986) Artificial Perception of Actions. *Cognitive Science,* 10, 117–149.

Ullman S. (1979) *The Interpretation of Visual Motion.* Cambridge, Massachusetts: M.I.T. Press.

Ullman S. (1990a) Aligning Pictorial Descriptions. In: Winston P. & Shellard S. (Eds.) *Artificial Intelligence at MIT: Expanding Frontiers, Vol. 2.* Cambridge, Massachusetts: M.I.T. Press, 344–403.

Ullman S. (1990b) Recovery of 3-D Structure from Motion. In: Winston P. & Shellard S. (eds.) *Artificial Intelligence at MIT: Expanding Frontiers, Vol. 2.* Cambridge, Massachusetts: M.I.T. Press, 404–435.

Ulupinar F. & Navatia R. (1993) Perception of 3-D Surfaces from 2-D Contours. *IEEE Transactions on Pattern Analysis and Machine Intelligence,* 15(1), 3–18.

van der Waerden B.L. (1953) *Modern Algebra. Vol. 1.* New York: Frederick Ungar Publishing Co.

Vercoe B. & Cumming D. (1988) Connection Machine Tracking of Polyphonic Audio. *Proceedings of the 14th International Computer Music Conference, Cologne, September 20–25, 1988.* Cologne: Feedback-Studio-Verlag, 211–218.

Viret J. (1977) Mesure. In: Honnegger M. (Ed.) *Dictionnaire de la Musique. Science de la Musique. Formes, Technique, Instruments.* Paris: Bordas.

Warren R.M. (1982) *Auditory Perception: A New Synthesis.* New York: Pergamon Press.

Wertheimer M. (1923) Untersuchungen zur Lehre von der Gestalt, II. Psychologische Forschung, 4, 301–350. Condensed transl. in: Ellis W.D. *A Source Book of Gestalt Psychology, Selection 5.* New York: Humanities Press 1950. Also in: Beardslee D.C. & Wertheimer M. (Eds.) *Readings in Perception, Selection 8.* Princeton, New Jersey: Van Nostrand Reinhold, 1958.

Widmer G. (1990) The Usefulness of Qualitative Theories of Music Perception. *Proceedings of the International Computer Music Conference'1990.* Glasgow, 341–344.

Widmer G. (1992) Qualitative Perception Modeling and Intelligent Music Learning. *Computer Music Journal,* 16(2).

Wightman F.L. & Kistler D.J. (1989) Headphone Simulation of Free-Field Listening. II: Psychophysical Validation. *Journal of the Acoustical Society of America,* 85, 868–878.

Witkin A.P. (1981) Recovering Surface Shape and Orientation from Texture. *Artificial Intelligence,* 17, 17–45.

Witkin A.P. (1983) Scale-Space Filtering. *Proceedings of the 8th International Joint Conference on Artificial Intelligence, Karlsruhe, West Germany,* 1019–1024.

Witkin A., Kass M., Terzopoulos D., & Barr A. (1990) Linking Perception and Graphics: Modeling with Dynamic Constraints. In: Barlow H., Blackmore C., & Weston-Smith M. (Eds.) *Images and Understanding.* Cambridge: Cambridge University Press.

Witkin A.P. & Tenenbaum J.M. (1983a) What is Perceptual Organization for? *Proceedings of the 8th Joint Conference on Artificial Intelligence'83, Karlsruhe,* 1023–1026.

Witkin A.P. & Tenenbaum J.M. (1983b) On the Role of Structure in Vision. In: Beck J., Hope B. & Rosenfeld A. (Eds.) *Human and Machine Vision.* New York: Academic Press, 481–543.

Wyse L., Carl R., Disher T., & Labriola S. (1985) Sinclavier II Updates. *Computer Music Journal,* 9(4), 81–83.

Xenakis I. (1954) La crise de la musique sérielle. *Graversaner Blätter*, No. 1.

Xenakis I. (1963) *Musiques Formelles.* Paris: Edition Richard-Masse.

Xenakis I. (1971) *Formalized Music.* Bloomington: Indiana University Press.

Zhang Z. & Faugeras O.D. (1990) Tracking and Grouping 3D Line Segments. *Proceedings of the 3rd International Conference on Computer Vision, Osaka.* 577–580.

Zucker S.W., Rosenfeld A. & Davis L.S. (1975) General Purpose Models: Expectations About the Unexpected. *Proceedings of the 4th International Conference on Artificial Intelligence,* 716–721.

Index

Name Index

Subject Index

Lecture Notes in Artificial Intelligence (LNAI)

Vol. 568: H.-J. Bürckert, A Resolution Principle for a Logic with Restricted Quantifiers. X, 116 pages. 1991.

Vol. 587: R. Dale, E. Hovy, D. Rösner, O. Stock (Eds.), Aspects of Automated Natural Language Generation. Proceedings, 1992. VIII, 311 pages. 1992.

Vol. 590: B. Fronhöfer, G. Wrightson (Eds.), Parallelization in Inference Systems. Proceedings, 1990. VIII, 372 pages. 1992.

Vol. 592: A. Voronkov (Ed.), Logic Programming. Proceedings, 1991. IX, 514 pages. 1992.

Vol. 596: L.-H. Eriksson, L. Hallnäs, P. Schroeder-Heister (Eds.), Extensions of Logic Programming. Proceedings, 1991. VII, 369 pages. 1992.

Vol. 597: H. W. Guesgen, J. Hertzberg, A Perspective of Constraint-Based Reasoning. VIII, 123 pages. 1992.

Vol. 599: Th. Wetter, K.-D. Althoff, J. Boose, B. R. Gaines, M. Linster, F. Schmalhofer (Eds.), Current Developments in Knowledge Acquisition - EKAW '92. Proceedings. XIII, 444 pages. 1992.

Vol. 604: F. Belli, F. J. Radermacher (Eds.), Industrial and Engineering Applications of Artificial Intelligence and Expert Systems. Proceedings, 1992. XV, 702 pages. 1992.

Vol. 607: D. Kapur (Ed.), Automated Deduction – CADE-11. Proceedings, 1992. XV, 793 pages. 1992.

Vol. 610: F. von Martial, Coordinating Plans of Autonomous Agents. XII, 246 pages. 1992.

Vol. 611: M. P. Papazoglou, J. Zeleznikow (Eds.), The Next Generation of Information Systems: From Data to Knowledge. VIII, 310 pages. 1992.

Vol. 617: V. Mařík, O. Štěpánková, R. Trappl (Eds.), Advanced Topics in Artificial Intelligence. Proceedings, 1992. IX, 484 pages. 1992.

Vol. 619: D. Pearce, H. Wansing (Eds.), Nonclassical Logics and Information Processing. Proceedings, 1990. VII, 171 pages. 1992.

Vol. 622: F. Schmalhofer, G. Strube, Th. Wetter (Eds.), Contemporary Knowledge Engineering and Cognition. Proceedings, 1991. XII, 258 pages. 1992.

Vol. 624: A. Voronkov (Ed.), Logic Programming and Automated Reasoning. Proceedings, 1992. XIV, 509 pages. 1992.

Vol. 627: J. Pustejovsky, S. Bergler (Eds.), Lexical Semantics and Knowledge Representation. Proceedings, 1991. XII, 381 pages. 1992.

Vol. 633: D. Pearce, G. Wagner (Eds.), Logics in AI. Proceedings. VIII, 410 pages. 1992.

Vol. 636: G. Comyn, N. E. Fuchs, M. J. Ratcliffe (Eds.), Logic Programming in Action. Proceedings, 1992. X, 324 pages. 1992.

Vol. 638: A. F. Rocha, Neural Nets. A Theory for Brains and Machines. XV, 393 pages. 1992.

Vol. 642: K. P. Jantke (Ed.), Analogical and Inductive Inference. Proceedings, 1992. VIII, 319 pages. 1992.

Vol. 659: G. Brewka, K. P. Jantke, P. H. Schmitt (Eds.), Nonmonotonic and Inductive Logic. Proceedings, 1991. VIII, 332 pages. 1993.

Vol. 660: E. Lamma, P. Mello (Eds.), Extensions of Logic Programming. Proceedings, 1992. VIII, 417 pages. 1993.

Vol. 667: P. B. Brazdil (Ed.), Machine Learning: ECML – 93. Proceedings, 1993. XII, 471 pages. 1993.

Vol. 671: H. J. Ohlbach (Ed.), GWAI-92: Advances in Artificial Intelligence. Proceedings, 1992. XI, 397 pages. 1993.

Vol. 679: C. Fermüller, A. Leitsch, T. Tammet, N. Zamov, Resolution Methods for the Decision Problem. VIII, 205 pages. 1993.

Vol. 681: H. Wansing, The Logic of Information Structures. IX, 163 pages. 1993.

Vol. 689: J. Komorowski, Z. W. Raś (Eds.), Methodologies for Intelligent Systems. Proceedings, 1993. XI, 653 pages. 1993.

Vol. 695: E. P. Klement, W. Slany (Eds.), Fuzzy Logic in Artificial Intelligence. Proceedings, 1993. VIII, 192 pages. 1993.

Vol. 698: A. Voronkov (Ed.), Logic Programming and Automated Reasoning. Proceedings, 1993. XIII, 386 pages. 1993.

Vol. 699: G.W. Mineau, B. Moulin, J.F. Sowa (Eds.), Conceptual Graphs for Knowledge Representation. Proceedings, 1993. IX, 451 pages. 1993.

Vol. 723: N. Aussenac, G. Boy, B. Gaines, M. Linster, J.-G. Ganascia, Y. Kodratoff (Eds.), Knowledge Acquisition for Knowledge-Based Systems. Proceedings, 1993. XIII, 446 pages. 1993.

Vol. 727: M. Filgueiras, L. Damas (Eds.), Progress in Artificial Intelligence. Proceedings, 1993. X, 362 pages. 1993.

Vol. 728: P. Torasso (Ed.), Advances in Artificial Intelligence. Proceedings, 1993. XI, 336 pages. 1993.

Vol. 743: S. Doshita, K. Furukawa, K. P. Jantke, T. Nishida (Eds.), Algorithmic Learning Theory. Proceedings, 1992. X, 260 pages. 1993.

Vol. 744: K. P. Jantke, T. Yokomori, S. Kobayashi, E. Tomita (Eds.), Algorithmic Learning Theory. Proceedings, 1993. XI, 423 pages. 1993.

Vol. 745: V. Roberto (Ed.), Intelligent Perceptual Systems. VIII, 378 pages. 1993.

Vol. 746: A. S. Tanguiane, Artificial Perception and Music Recognition. XV, 210 pages. 1993.

Lecture Notes in Computer Science

Vol. 711: A. M. Borzyszkowski, S. Sokołowski (Eds.), Mathematical Foundations of Computer Science 1993. Proceedings, 1993. XIII, 782 pages. 1993.

Vol. 712: P. V. Rangan (Ed.), Network and Operating System Support for Digital Audio and Video. Proceedings, 1992. X, 416 pages. 1993.

Vol. 713: G. Gottlob, A. Leitsch, D. Mundici (Eds.), Computational Logic and Proof Theory. Proceedings, 1993. XI, 348 pages. 1993.

Vol. 714: M. Bruynooghe, J. Penjam (Eds.), Programming Language Implementation and Logic Programming. Proceedings, 1993. XI, 421 pages. 1993.

Vol. 715: E. Best (Ed.), CONCUR'93. Proceedings, 1993. IX, 541 pages. 1993.

Vol. 716: A. U. Frank, I. Campari (Eds.), Spatial Information Theory. Proceedings, 1993. XI, 478 pages. 1993.

Vol. 717: I. Sommerville, M. Paul (Eds.), Software Engineering – ESEC '93. Proceedings, 1993. XII, 516 pages. 1993.

Vol. 718: J. Seberry, Y. Zheng (Eds.), Advances in Cryptology – AUSCRYPT '92. Proceedings, 1992. XIII, 543 pages. 1993.

Vol. 719: D. Chetverikov, W.G. Kropatsch (Eds.), Computer Analysis of Images and Patterns. Proceedings, 1993. XVI, 857 pages. 1993.

Vol. 720: V.Mařík, J. Lažanský, R.R. Wagner (Eds.), Database and Expert Systems Applications. Proceedings, 1993. XV, 768 pages. 1993.

Vol. 721: J. Fitch (Ed.), Design and Implementation of Symbolic Computation Systems. Proceedings, 1992. VIII, 215 pages. 1993.

Vol. 722: A. Miola (Ed.), Design and Implementation of Symbolic Computation Systems. Proceedings, 1993. XII, 384 pages. 1993.

Vol. 723: N. Aussenac, G. Boy, B. Gaines, M. Linster, J.-G. Ganascia, Y. Kodratoff (Eds.), Knowledge Acquisition for Knowledge-Based Systems. Proceedings, 1993. XIII, 446 pages. 1993. (Subseries LNAI)

Vol. 724: P. Cousot, M. Falaschi, G. Filè, A. Rauzy (Eds.), Static Analysis. Proceedings, 1993. IX, 283 pages. 1993.

Vol. 725: A. Schiper (Ed.), Distributed Algorithms. Proceedings, 1993. VIII, 325 pages. 1993.

Vol. 726: T. Lengauer (Ed.), Algorithms — ESA '93. Proceedings, 1993. IX, 419 pages. 1993.

Vol. 727: M. Filgueiras, L. Damas (Eds.), Progress in Artificial Intelligence. Proceedings, 1993. X, 362 pages. 1993. (Subseries LNAI).

Vol. 728: P. Torasso (Ed.), Advances in Artificial Intelligence. Proceedings, 1993. XI, 336 pages. 1993. (Subseries LNAI).

Vol. 729: L. Donatiello, R. Nelson (Eds.), Performance Evaluation of Computer and Communication Systems. Proceedings, 1993. VIII, 675 pages. 1993.

Vol. 730: D. B. Lomet (Ed.), Foundations of Data Organization and Algorithms. Proceedings, 1993. XII, 412 pages. 1993.

Vol. 731: A. Schill (Ed.), DCE – The OSF Distributed Computing Environment. Proceedings, 1993. VIII, 285 pages. 1993.

Vol. 732: A. Bode, M. Dal Cin (Eds.), Parallel Computer Architectures. IX, 311 pages. 1993.

Vol. 733: Th. Grechenig, M. Tscheligi (Eds.), Human Computer Interaction. Proceedings, 1993. XIV, 450 pages. 1993.

Vol. 734: J. Volkert (Ed.), Parallel Computation. Proceedings, 1993. VIII, 248 pages. 1993.

Vol. 735: D. Bjørner, M. Broy, I. V. Pottosin (Eds.), Formal Methods in Programming and Their Applications. Proceedings, 1993. IX, 434 pages. 1993.

Vol. 736: R. L. Grossman, A. Nerode, A. P. Ravn, H. Rischel (Eds.), Hybrid Systems. VIII, 474 pages. 1993.

Vol. 737: J. Calmet, J. A. Campbell (Eds.), Artificial Intelligence and Symbolic Mathematical Computing. Proceedings, 1992. VIII, 305 pages. 1993.

Vol. 738: M. Weber, M. Simons, Ch. Lafontaine, The Generic Development Language Deva. XI, 246 pages. 1993.

Vol. 739: H. Imai, R. L. Rivest, T. Matsumoto (Eds.), Advances in Cryptology – ASIACRYPT '91. X, 499 pages. 1993.

Vol. 740: E. F. Brickell (Ed.), Advances in Cryptology – CRYPTO '92. Proceedings, 1992. X, 565 pages. 1993.

Vol. 741: B. Preneel, R. Govaerts, J. Vandewalle (Eds.), Computer Security and Industrial Cryptography. ESAT, 1991. VIII, 275 pages. 1993.

Vol. 742: S. Nishio, A. Yonezawa (Eds.), Object Technologies for Advanced Software. Proceedings, 1993. X, 543 pages. 1993.

Vol. 743: S. Doshita, K. Furukawa, K. P. Jantke, T. Nishida (Eds.), Algorithmic Learning Theory. Proceedings, 1992. X, 260 pages. 1993. (Subseries LNAI)

Vol. 744: K. P. Jantke, T. Yokomori, S. Kobayashi, E. Tomita (Eds.), Algorithmic Learning Theory. Proceedings, 1993. XI, 423 pages. 1993. (Subseries LNAI)

Vol. 745: V. Roberto (Ed.), Intelligent Perceptual Systems. VIII, 378 pages. 1993. (Subseries LNAI)

Vol. 746: A. S. Tanguiane, Artificial Perception and Music Recognition. XV, 210 pages. 1993. (Subseries LNAI)