# V I T A

DONCHIN, Emanuel

***Educational History:***

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|---|---|
| 1957-1961 | Hebrew University, Jerusalem |
| 1961 | B.A., Hebrew University, Jerusalem (Psychology and Statistics) |
| 1963 | M.A., University of California, Los Angeles |
| Jan. 1964 | Ph.D., University of California, Los Angeles (Psychology) |

***Professional History:***

| | |
|---|---|
| 1958-61 | Teaching and Research Assistant, Department of Psychology, Hebrew University, Jerusalem |
| 1961-1/63 | Research Assistant, Department of Psychology, University of California, Los Angeles |
| 1964-65 | Research Psychologist, Department of Psychology, University of California, Los Angeles |
| 7/65-9/66 | Research Associate, Division of Neurology, Stanford Medical School, Palo Alto, California |
| 9/66-9/68 | Research Associate, Neurobiology Branch, NASA - Ames Research Center, Moffett Field, California |
| 9/68-9/72 | Associate Professor of Psychology, Physiology and Biophysics, University of Illinois, Urbana-Champaign |
| 9/72-9/01 | Professor, Psychology and Physiology, University of Illinois, Urbana-Champaign |
| 1/73-7/73 | Visiting Professor, Department of Behavioral Biology, Technion Medical School, Haifa, Israel |
| 8/80-9/94 | Head, Department of Psychology, University of Illinois, Urbana-Champaign. |
| 9/87-1/88 | Visiting Professor, Department of Psychology, New York University |
| 1/88-8/88 | Lady Davis Professor, The Faculty of Industrial Engineering and Management, The Technion, Haifa, Israel |
| 9/88-2001 | Member Beckman Institute |
| 1/95-6/95 | Visiting Professor, Research Centre for Work Safety and Human Engineering, Technion, Haifa, Israel |
| 9/2001- Present | Professor Emeritus, University of Illinois |
| 9/2001 –2008 | Professor and Chair, Department of Psychology, University of South Florida. |
| 8/2008 – Present | Professor, Department of Psychology, University of South Florida. |

***Professional Societies (Current):***

AAAS (Fellow, 1979)
American Psychological Association (Fellow, Divisions 3 and 6, 1979)
American Psychological Society (William James Fellow Award, 1991)
Federation of Behavioral, Psychological, and Cognitive Sciences (Vice-President, 1980-

1989, Chairman, Forum on Research Management, 1980-1985)
Member, Society of Experimental Psychology, 1993
Society for Psychophysiological Research (President, 1980, Distinguished Scientific Contribution Award, 1993)
Society of Experimental Psychologists, President, 2005

***Service on National Committees and Boards:***

1973 - 1979 NIMH, Neuropsychology Study Section.
1976 - 1989 Associate Editor, *The EEG Journal*.
1978 - 1984 Associate Editor, *Psychophysiology*.
1987 - 1988 NIH, Training Grants Study Section.
1988 - 1993 NIMH Cognition, Emotion and Personality Study Section.
1993 - 1996 APA Committee on Accreditation
1993 -1997 Chair, William James Fellowshp Committee. American Psychological Society
1993 - 1996 Hughes Fellowship Program, Review Committee (Neurosciences)
1993 - 2000 National Research Council, U.S. National Committee for the International Union of Psychological Science
1995 - 1997 Editor: *Current Directions in Psychological Science*
1995 - 1999 Steering Committee, International Union of Psychological Societies
1995 - 1996 Committee to Review Psychology Programs, State University System, Florida
1996 - 1997 Program Committee: American Psychological Society
1996 - 1998 Committee on the Future of Psychophysiology: Society for Psychophysiological Research
1996 - 2000 AAAS Section Committee for Section J (Psychology)
1998 - 2001 Council of Representatives, American Psychological Association
2002 – 2005 Board of Educational Affairs, American Psychological Association
2004 – 2007 Council of Representatives, American Psychological Association
2003 – 2005 Chair, Task Force on Work Force Analysis in Psychology (BEA)
2003 – 2005 Chair, Committee on Award for Innovative Graduate Department (BEA)
2006 - 2009 Member, Executive Board of COGDOP
2008 - 2010 Council of Representatives, American Psychological Association
2010-present Member, Steering Committee, National Center for Professional and Research Ethics |

***Service on Campus and University Committees:***

1970 - 1975 Computer Services Office Liaison Committee
1978 - 1979 Campus Tenure and Promotion Committee
1980 - 1982 Campus Budget Priorities Committee
1980 - 1985 Research Management Advisory Committee
1985 - 1987 Executive Committee, College of LAS
1984 - 1986 Executive Committee, Graduate College
1985 - 1987 Organizing Committee, The Beckman Institute

1988 - 1994 Coordinating Committee, The Beckman Institute
1992 - 1995 University Senates Conference
1993 Task Force for the evaluation of the Institute of Aviation
1993 - 1995 Campus Research Policy Committee
1993 - 1997 Senate Committee on Library
1995 - 1996 Steering Committee on Internationalization of the Campus
1997 – 2000 General University Policy Committee of the Academic Senate
1998 Task Force on Advance Technology
1998 - 1999 Chancellor's Task Force on Grievance Procedures
1999 - 2000 Chair, Search Committee for Chief Information Officer/Associate Provost
1999- 2001 Assistant to Provost, Faculty Professional Development project
1999-2001 Chair, Policy and Planning Committee, College of Liberal Arts
2001 - Research Committee, College of Arts and Sciences, USF
2002 FAST Review committee, College of Arts and Sciences
2003 Quality Enhancement Plan Steering Committee, USF
2002 - 2006 Faculty Senate, USF
2003 Chair, Ad Hoc committee on Emeritus status, USF
2004 -2005 Chair, Committee on the Structure and Function of the Senate, USF
2007 – 2010 Faculty Senate, USF
2007 – 8/20/2011 Chair, Council on Educational Policy Issues
2007 – 8/20/2011 Member, Senate Executive Committee
2011- Present Member, Dept Colloquium Committee
2012-Present Faculty Senate, USF
2012-Present Senate Council on Faculty Issues

## RESEARCH INFORMATION

### *Grants Awarded, (since 1969):*

1969 - $70,961 - University Research Board Grant to purchase IBM 1800 computer.

$20,000 - Biomedical Sciences Committee Grant to purchase computer materials.

May 15, 1970 - May 14, 1973 - $124,214
U.S. Office of Education OEG 5-70-0030 (508). #46-32-66-372

May 15, 1970 - May 14, 1973 - $70,000
NASA-Ames Research Center Equipment Loan

September 15, 1971 - February 28, 1974 - $40,000
National Science Foundation, NSF GB 30999, #46-32-66-351

September 1, 1971 - September 1, 1972 - $24,000
NASA - NASA NGR 14-005-175, #14-005-175

September 15, 1972 - $10,000 supplement to original grant,
National Science Foundation, NSF GB 30999 (#A).

1972 - $2,000, University Research Board Grant to purchase an electronic bimanual dynanometer.

$3,900, Biomedical Sciences Support Committee Grant to test the feasibility of telemetry in studies of the Rhesus monkey.

June 30, 1973 - June 20, 1975 - $475,000
Advanced Research Projects Agency - DAHC 15-73-C-0318, #46-32-66-301.

March 1, 1975 - June 30, 1975 - $7,000
San Diego State University Foundation/Navy Subcontract ERPs and Compound Stimuli, #46-32-66-349

June 30, 1975 - October, 1977 - $1,000,000
Advanced Research Projects Agency, U.S. Department of the Navy N000-14-76-C-0002, #46-32-66-321

July 1, 1975 - June 30, 1976 - $26,500
San Diego State University Foundation/Navy Subcontract. Biocybernetic Technology and Behavior.

April 1, 1976 - March 31, 1977 - $4,000
Biomedical Sciences Support Grant, #46-26-18-333.

October 1, 1977 - Sept. 30, 1979 - $909,138
Advanced Research Projects Agency, continuation of U.S. Department of Navy/N000-14-76-C-0002, #46-32-66-321

January 1, 1978 - December 31, 1980 - $154,276
Environmental Protection Agency, PEARL Development, #86016 1 HOCM

September 1, 1978 - August 31, 1979 - $18,000
The Alfred P. Sloan Foundation to support a Workshop on event-related brain potentials as tools in the study of cognitive function.

March 15, 1979 - March 14, 1980 - $93,732
U.S. Air Force, Wright-Patterson AFB, Utilization of Transient Visual Response for Human Engineering Applications, #46-32-66-396.

July 1, 1979 - June 30, 1981 - $62,000
Alfred P. Sloan Foundation, Event-related potentials as tools in the study of cognitive function.

July 1, 1979 - June 30, 1981 - $68,990
Illinois Department of Mental Health and Developmental Disabilities, The latency of the brainstem evoked responses and the assessment of intoxication and rehabilitation.

October 1, 1979 - September 30, 1980 - $102,250
Advanced Research Projects Agency, Cognitive psychophysiology in command and control.

September 1, 1979 - August 31, 1983 - $682,454
Air Force Office of Scientific Research, Applications of event-related potentials in human engineering. Continued as The event-related brain potentials as an index of information processing, cognitive activity, and skill acquisition: A program of basic research.

December 1, 1979 - May 1, 1980 - $19,836
NASA/Jet Propulsion Laboratory, Teleoperator simulation study.

January 1, 1980 - March 31, 1980 - $9,968
Environmental Protection Agency, PEARL software support services.

April 1, 1980 - June 30, 1981 - $1,000
School of Life Sciences, University of Illinois, Animal models of event-related potentials.

July 1, 1980 - June 30, 1981 - $35,397
State of Illinois Mental Health Division, The latency of the brainstem evoked responses and the assessment of intoxication and rehabilitation, cont.

October 1, 1980 - December 31, 1981 - $64,075
Advanced Research Projects Agency, Cognitive Psychophysiology in command and control, cont.

October 1, 1980 - November 30, 1981 - $34,469
NIH SBC University of Utah, Neurophysiological correlates of conditioning.

October 6, 1980 - $6,000
Science Applications, Inc., Research on information processing nonverbal behavior and bargaining.

January 1, 1981 - March 1, 1981 - $52,120
Systems Research Laboratory, Delivery of two PEARL systems.

February 15, 1981 - September 30, 1983 - $205,000
Environmental Protection Agency Electrophysiological battery for assessing the effects of exposure to toxic substances.

May 15, 1981 - March 14, 1982 - $30,084
Air Force SBC SCEEE, The development of a task-analysis paradigm for studies of the spectrum of stress susceptibility.

May 29, 1981 - April 30, 1982 - $95,941
USAF SBC Systems Research Laboratory, Neurophysiological workload test battery software.

July 1, 1981 - June 30, 1982 - $40,689
State of Illinois Mental Health Division, The latency of the brainstem evoked responses and the assessment of intoxication and rehabilitation.

March 1, 1982 - August 31, 1986 - $519,227
National Institute on Aging, Psychophysiological analysis of mental slowness in aged.

February 15, 1982 - August 14, 1984 - $208,056
Environmental Protection Agency, Electrophysiological battery for assessing the effects of exposure to toxic substances.

March 15, 1982 - September 30, 1983 - $155,228
USAF School of Aviation Medicine, The assessment of the effects of long-duration missions on specific components of a complex task.

April 1, 1982 - September 30, 1983 - $175,499
AF School of Aviation Medicine. The use of event-related brain potentials for the prediction of performance quality in pilots of advanced tactical jet aircraft.

November 5, 1982 - January 4, 1984 - $208,861

Advanced Research Projects Agency, An information processing, componential, analysis of the acquisition and maintenance of complex skills.

July 1, 1981 - February 29, 1984 - $110,000
Alfred P. Sloan Foundation, Event-related potentials as tools in the study of cognitive function.

January 10, 1984 - May 10, 1986 - $1,908,000
Advanced Research Projects Agency, Learning strategies for micro-processor driven part-task trainer-simulators.

July 1, 1983 - June 30, 1986 - $326,768
Army Research Institute, An investigation of the properties of the operator's internal model of complex dynamic systems.

September 1, 1983 - August 31, 1984 - $231,804
Air Force Office of Scientific Research, The event-related brain potential as an index of information processing, cognitive activity, and skill acquisition.

September 1, 1983 - March 31, 1984 - $42,843
University of Connecticut, PEARL microprocessor laboratory computer system for event-related potentials research.

October 1, 1984 - May 31, 1985 - $99,002
National Institutes of Health, Laboratory computer system for ERP research.

January 1, 1985 - December 31, 1987 - $508,647
Air Force Office of Scientific Research, The event-related brain potential as an index of information processing and cognitive activity.

December 1, 1984 - November 30, 1985 - $35,000
Office of Naval Research and Air Force Office of Scientific Research, Conference on the relation between event-related potentials and magnetic fields.

December 1, 1983 - November 30, 1985 - $106,118
The Technion, An information processing approach to the study of data entry skills.

January 1, 1985 - December 31, 1987 - $508,647
Air Force Office of Scientific Research, The event-related brain potential as an index of information processing and cognitive activity.

December 1, 1984 - November 30, 1985 - $35,000
Office of Naval Research and Air Force Office of Scientific Research, Conference on the relation between event-related potentials and magnetic fields.

December 1, 1983 - November 30, 1985 - $106,118
The Technion, An information processing approach to the study of data entry skills.

October 1, 1985 - March 31, 1987 - $50,000
National Aeronautics and Space Administration, Workload and training: An examination of their interactions (conference).

May 1, 1986 - April 30, 1989 - $189,249 (direct)

National Institute of Mental Health, Cognitive psychophysiology and information processing.

June 1, 1986 - March 31, 1988 - $59,991
National Aeronautics and Space Administration (Ames Research Center), Second workshop on workload and training: Individual differences (conference).

August 1, 1987 - July 31, 1988 - $62,281 (direct)
National Aeronautics and Space Administration, The assessment and prediction of mental workload: A comparison of physiological, behavioral and subjective metrics.

August 24, 1987 - December 1, 1988 - $64,966
Central Intelligence Agency, Use of event-related brain potentials (ERP) in interrogative polygraphy.

October 1, 1987 - September 30, 1988 - $84,749 (direct)
U. S. Army Research Institute, Task decomposition and specific skill training as tools in the improvement of the cost effectiveness of simulator-based training.

April 1, 1988 - March 31, 1991 - $115,305
National Institute of Neurological and Communicative Disorders and Stroke, Event-related brain potentials and memory.

December 1, 1988 - March 31, 1989 - $42,156
National Aeronautics and Space Administration (Ames Research Center), Third workshop on workload and training: Individual differences (conference).

May 1, 1989 - April 30, 1992 - $117,500 (first year direct costs)
National Institute of Mental Health, Cognitive psychophysiology and information processing.

August 1, 1991 - July 31, 1994 - $40,000 (first year direct costs)
National Aeronautics and Space Administration (Ames Research Center), The assessment and use of workload measurement techniques in the acquisition and performance of complex skills.

May 1, 1992 - April 30, 1995 - $138,552 (first year direct costs)
National Institute of Mental Health, Cognitive psychophysiology and information processing.

June 1, 1992 - May 31, 1995 - $94,840 (first year direct costs)
National Institute of Neurological Disorders and Stroke, Event-related brain potentials and memory.

July 1, 1992 - June 30, 2001 - $140,536 (current year)
National Institute of Mental Health, Cognitive Psychophysiology Training Grant.

July 1, 1996 - June 30, 1998 - $153,000

Critical Research Initiatives Program Board, University of Illinois, Mental Prosthesis: Communicating with a Computer Using Brain Waves

September 1, 1996 - August 30, 1998 - $98,632

Dept. of Health and Human Services, Small Business Technology Transfer Program (STTR) with Bio-Logic Systems Corp., to develop ERP based communication device

August 1, 1999 - April 30, 2000 - $42,500

National Institute of Mental Health, Office of Neuroinformatics. Funding for conference, "Neuroinformatics and electrophysiological neuroimaging: Creating a dense investigator network to capitalize on dense electrode arrays"

May 1, 2000 - April 30, 2001 - $8,327

International Foundation for Music Research, The processing of pitch and scale: An ERP study

2001 – Present

1. Sub contract from Wadsworth Center for testing BCI2000
2. Participant in Mark Goldman's Alcohol Expectancy grants
3. Center of Excellence on Pattern Recognition, lead by Ravi Sankar
4. NIH Award: 1 R21 DA023273-02, PI: Dr. Geoffrey Potts (E. Donchin, Co-PI)
   Title: Reward Sensitivity and Incentive Salience in Cigarette Smokers
   Award Period: 2/15/2008 thru 1/31/2011

5. NIH Award: 5 R01 AA008333-14 PI: Dr. Mark Goldman (E. Donchin, co-PI)
   Title: Alcohol Expectancies: Mediators of Biopsychosocial Risk?
   Effort Period: 7/1/2001 thru 6/30/2012
   .

PUBLICATIONS

***Books:***

Donchin, E., & Lindsley, D. B. (Eds.). (1969). *Average evoked potentials: Methods, results and evaluations.* NASA SP-191. Washington, DC: U.S. Government Printing Office, 400 pp.

Donchin, E. (Ed.). (1984). *Cognitive psychophysiology: Event-related potentials and the study of cognition, The Carmel Conferences, Volume 1*. Hillsdale, NJ: Lawrence Erlbaum Associates, 428 pp.

Coles, M. G. H., Donchin, E., & Porges, S. W. (Eds.). (1986). *Psychophysiology: Systems, processes, and applications*. New York: Guilford Press, 761 pp.

Galbraith, G. C., Kietzman, M. L., & Donchin, E. (Eds.). (1988). *Neurophysiology and psychophysiology: Experimental and clinical applications*. Hillsdale, NJ: Erlbaum, 390 pp.

Donchin, E., Fabiani, M., & Sanders, A. (Eds.). (1989). The Learning Strategies Program: An Examination of the Strategies in Skill Acquisition [Special Issue]. *Acta Psychologica*, *71*.

***Articles:***

1. Donchin, E., Wicke, J. D., & Lindsley, D. B. (1963). Cortical evoked potentials and perception of paired flashes. *Science*, *141*, 1285-1286.

2. Wicke, J. D., Donchin, E., & Lindsley, D. B. (1964). Visual evoked potentials as a function of flash luminance and duration. *Science*, *146*, 83-85.
3. Donchin, E., & Lindsley, D. B. (1965). Retroactive brightness enhancement with brief paired flashes of light. *Vision Research, 5*, 59-70.
4. Donchin, E., & Lindsley, D. B. (1965). Visually evoked response correlates of perceptual masking and enhancement. *Electroencephalography and Clinical Neurophysiology*, *19*, 325-335.
5. Donchin, E., & Lindsley, D. B. (1966). Average evoked potentials and reaction times to visual stimuli. *Electroencephalography and Clinical Neurophysiology*, *20*, 217-223.
6. Donchin, E. (1966). A multivariate approach to the analysis of average evoked potentials. *IEEE Transactions on Bio-Medical Engineering*, *BME-13*, 131-139.
7. Donchin, E. (1967). Retroactive visual masking: Effects of test flash duration on the masking interval. *Vision Research*, *7*, 79-87.
8. Donchin, E., & Cohen, L. (1967). Average evoked potentials and intramodality selective attention. *Electroencephalography and Clinical Neurophysiology*, *22*, 537-546.
9. Donchin, E. (1968). Averaged evoked potentials and uncertainty resolution. *Psychonomic Science*, *12*, 103.
10. Donchin, E. (1968). Games neurons play, review of Roger W. Russell's *Frontiers in physiological psychology*. *Contemporary Psychology*, *13*, 597-598.
11. Donchin, E. (1969). Discriminant analysis in average evoked response studies: The study of single trial data. *Electroencephalography and Clinical Neurophysiology*, *27*,

311-314.

12. Donchin, E. (1969). Data analysis techniques in average evoked potential research. In E. Donchin & D. B. Lindsley (Eds.), *Average evoked potentials: Methods, results and evaluations* (NASA SP-191, pp. 199-236). Washington, DC: U.S. Government Printing Office.
13. Donchin, E., & Cohen, L. (1969). Anticipation of relevant stimuli and evoked potentials: A reply to Näätänen. *Perceptual and Motor Skills*, *29*, 115-117.
14. Smith, D. B. D., Donchin, E., Cohen, L., & Starr, A. (1970). Auditory averaged evoked potentials in man during selective binaural listening. *Electroencephalo-graphy and Clinical Neurophysiology*, *28*, 146-152.
15. Donchin, E., & Pappas, N. (1970). An event-coder for evoked potential studies. *Behavior Research Methods & Instrumentation*, *2*, 142-144.
16. Donchin, E., & Cohen, L. (1970). Evoked potentials to stimuli presented to the suppressed eye in a binocular rivalry experiment. *Vision Research*, *10*, 103-106.
17. Donchin, E., & Smith, D. B. D. (1970). The contingent negative variation and the late positive wave of the average evoked potential. *Electroencephalography and Clinical Neurophysiology*, *29*, 201-203.
18. Callaway, E., Jones, R. T., & Donchin, E. (1970). Auditory evoked potential variability in schizophrenia. *Electroencephalography and Clinical Neurophysiology*, *29*, 421-428.
19. Donchin, E., Callaway, E., & Jones, R. T. (1970). Auditory evoked potential variability in schizophrenia. II. The application of discriminant analysis. *Electroencephalography and Clinical Neurophysiology*, *29*, 429-440.

20. Donchin, E., & Sutton, S. (1970). The "psychological significance" of evoked responses: A comment on Clark, Butler, & Rosner. *Communications in Behavioral Biology, 5,* 111-114.
21. Donchin, E., Otto, D., Gerbrandt, L. K., & Pribram, K. H. (1971). While a monkey waits: Electrocortical events recorded during the foreperiod of a reaction time study. *Electroencephalography and Clinical Neurophysiology, 31,* 115-127.
22. Donchin, E., Gerbrandt, L. K., Leifer, L., & Tucker, L. (1972). Is the contingent negative variation contingent on a motor response? *Psychophysiology, 9,* 178-188.
23. Verma, S., & Donchin, E. (1972). A "hand-shaking" multiplexer for the IBM 1800. *Behavior Research Methods and Instrumentation, 4,* 327-330.
24. Donchin, E., Otto, D., Gerbrandt, L. K., & Pribram, K. H. (1973). While a monkey waits. In K. H. Pribram & A. R. Luria (Eds.), *Psychophysiology of the frontal lobes* (pp. 125-138). New York: Academic Press.
25. Donchin, E. (1973). Methodological issues in CNV research. In W. C. McCallum & J. R. Knott (Eds.), *Event-related slow potentials of the brain: Their relations to behavior. Proceedings of the 2nd International CNV Congress, Vancouver, 1971* (pp. 3-17). Amsterdam: Elsevier Scientific Publishing Company.
26. Donchin, E., Gerbrandt, L. K., Leifer, L., & Tucker, L. R. (1973). Contingent negative variations and motor response. In W. C. McCallum & J. R. Knott (Eds.), *Event-related slow potentials of the brain: Their relations to behavior. Proceedings of the 2nd International CNV Congress, Vancouver, 1971* (pp. 187-190). Amsterdam: Elsevier Scientific Publishing Company.
27. Donchin, E., Otto, D., Gerbrandt, L. K., & Pribram, K. H. (1973). Studies in the physiology of CNV. In W. C. McCallum & J. R. Knott (Eds.), *Event-related slow potentials of the brain: Their relations to behavior* (pp. 257-261). Proceedings of the 2nd International CNV Congress, Vancouver, 1971. Amsterdam: Elsevier Scientific Publishing Company.
28. Donchin, E., Kubovy, M., Kutas, M., Johnson, R., Jr., & Herning, R. I. (1973). Graded changes in evoked response (P300) amplitude as a function of cognitive activity. *Perception and Psychophysics, 14,* 319-324.
29. Rohrbaugh, J. W., Donchin, E., & Eriksen, C. W. (1974). Decision making and the P300 component of the cortical evoked response. *Perception and Psychophysics, 15,* 368-374.

30. Kutas, M., & Donchin, E. (1974). Studies of squeezing: Handedness, responding hand, response force, and asymmetry of readiness potential. *Science, 186,* 545-548.
31. Donchin, E., & Herning, R. I. (1975). A simulation study of the efficacy of stepwise discriminant analysis in the detection and comparsion of event related potentials. *Electroencephalography and Clinical Neurophysiology, 38,* 51-68.
32. Donchin, E., Tueting, P., Ritter, W., Kutas, M., & Heffley, E. (1975). On the independence of the CNV and the P300 components of the human averaged evoked potential. *Electroencephalography and Clinical Neurophysiology, 38,* 449-461.
33. Donchin, E., & Heffley, E. (1975). Minicomputers in the signal-averaging laboratory. *American Psychologist, 30,* 299-312.
34. Kutas, M., McCarthy, G., & Donchin, E. (1975). Differences between sinistrals' and dextrals' ability to infer a whole from its parts: A failure to replicate. *Neuropsychologia, 13,* 455-464.
35. Donchin, E. (1975). Brain electrical correlates of pattern recognition. In G. F. Inbar (Ed.), *Signal analysis and pattern recognition in biomedical engineering* (pp. 199-218). New York: John Wiley.
36. Donchin, E. (1975). On evoked potentials, cognition, and memory. *Science, 190,* 1004-1005.
37. Donchin, E. (1976). Measurement in AEP studies (opening remarks). In W. C. McCallum & J. R. Knott (Eds.), *The responsive brain. Proceedings of the Third International Congress on Event-Related Slow Potentials of the Brain* (pp. 5-9). Bristol: John Wright and Sons.
38. Donchin, E., Johnson, R., Jr., Herning R., & Kutas, M. (1976). Covariation of the magnitude of the CNV & P300 as a function of the subject's task. In W. C. McCallum and J. R. Knott (Eds.), *The responsive brain. Proceedings of the Third International Congress on Event-Related Slow Potentials of the Brain* (pp. 76-80). Bristol: John Wright and Sons.
39. Donchin, E., & Kutas, M. (1976). Preliminary observations on the effects of response parameters on pre-response potentials. In W. C. McCallum & J. R. Knott (Eds.), *The responsive brain. Proceedings of the Third International Congress on Event-Related Slow Potentials of the Brain* (pp. 108-110). Bristol: John Wright and Sons.
40. Donchin, E. (Ed.). (1976). The relationship between P300 and the CNV. A correspondence and an experimental report. In W. C. McCallum & J. R. Knott (Eds.), *The responsive brain. Proceedings of the Third International Congress on event-related slow potentials of the brain* (pp. 216-234). Bristol: John Wright and Sons.
41. Squires, K. C., Wickens, C., Squires, N. K., & Donchin, E. (1976). The effect of stimulus sequence on the waveform of the cortical event-related potential. *Science, 193,* 1142-1146.
42. Squires, K. C., & Donchin, E. (1976). Beyond averaging: The use of discriminant functions to recognize event related potentials elicited by single auditory stimuli. *Electroencephalography and Clinical Neurophysiology, 41,* 449-459.
43. McCarthy, G., & Donchin, E. (1976). The effects of temporal and event uncertainty in determining the waveforms of the auditory event related potential (ERP). *Psychophysiology, 13,* 581-590.
44. Wickens, C. D., Isreal, J., McCarthy, G., Gopher, D., & Donchin, E. (1976). The use of event-related potentials in the enhancement of system performance [NASA TM X-73]. *Proceedings 12th Annual Conference on Manual Control, 170,* 124-134.

45. Donchin, E., Callaway, E., Cooper, R., Desmedt, J. E., Goff, W. R., Hillyard, S. A., & Sutton, S. (1977). Publication criteria for studies of evoked potentials (EP) in man. Report of the Methodology Committee. In J. E. Desmedt (Ed.), *Progress in clinical neurophysiology: Vol. 1. Attention, voluntary contraction and event-related cerebral potentials* (pp. 1-11). Basel: Karger.
46. Kutas, M., & Donchin, E. (1977). The effect of handedness, the responding hand, and response force on the contralateral dominance of the readiness potential. In J. Desmedt (Ed.), *Progress in clinical neurophysiology: Vol. 1. Attention, voluntary contraction and event-related cerebral potentials* (pp. 189-210). Basel: Karger.
47. Donchin, E., Kutas, M., & McCarthy, G. (1977). Electrocortical indices of hemispheric utilization. In S. Harnad, R. W. Doty, L. Goldstein, J. Jaynes, & G. Krauthamer (Eds.), *Lateralization in the nervous system* (pp. 339-384). New York: Academic Press.
48. Squires, K. C., Donchin, E., Herning, R. I., & McCarthy, G. (1977). On the influence of task relevance and stimulus probability on event-related potential components. *Electroencephalography and Clinical Neurophysiology*, 42, 1-14.
49. Squires, N. K., Donchin, E., Squires, K. C., & Grossberg, S. (1977). Bisensory stimulation: Inferring decision-related processes from the P300 component. *Journal of Experimental Psychology: Human Perception & Performance*, *3*, 299-315.
50. Squires, K., Petuchowski, S., Wickens, C., & Donchin, E. (1977). The effects of stimulus sequence on event related potentials: A comparison of visual and auditory sequences. *Perception & Psychophysics*, *22*, 31-40.
51. Kutas, M., McCarthy, G., & Donchin, E. (1977). Augmenting mental chronometry: The P300 as a measure of stimulus evaluation time. *Science*, *197*, 792-795.
52. Duncan-Johnson, C. C., & Donchin, E. (1977). On quantifying surprise: The variation in event-related potentials with subjective probability. *Psychophysiology*, *14*, 456-467.
53. Donchin, E., McCarthy, G., & Kutas, M. (1977). Electroencephalographic investigations of hemispheric specialization. In J. E. Desmedt (Ed.), *Language and hemispheric specialization in man: Cerebral ERPs. Prog. Clin. Neurophysiol*., vol. 3 (pp. 212-242). Karger, Basel.

54. Wickens, C., Isreal, J., & Donchin, E. (1977). The event-related cortical potential as an index of task workload. In A. S. Neal & R. F. Palasek (Eds.), *Proceedings of the Human Factors Society 21st Annual Meeting*, San Francisco, October, 1977.
55. Donchin, E., Ritter, W., & McCallum, C. (1978). Cognitive psychophysiology: The endogenous components of the ERP. In E. Callaway, P. Tueting, & S. Koslow (Eds.), *Brain event-related potentials in man* (pp. 349-441). New York: Academic Press.
56. Johnson, R. E., Jr., & Donchin, E. (1978). On how P300 amplitude varies with the utility of the eliciting stimuli. *Electroencephalography and Clinical Neurophysiology, 44*, 424-437.
57. McCarthy, G., & Donchin, E. (1978). Brain potentials associated with structural and functional visual matching. *Neuropsychologia*, *16*, 571-585.
58. Kutas, M., & Donchin, E. (1978). Variations in the latency of P300 as a function of variations in semantic categorizations. In D. Otto (Ed.), *Multidisciplinary perspectives in event-related brain potential research* (pp. 198-201). EPA-600/9-77-043, Washington, D.C.: U.S. Government Printing Office.
59. Donchin, E. (1978). The use of the scalp distribution as a dependent variable in ERP studies. In D. Otto (Ed.), *Multidisciplinary perspectives in event-related brain*

*potential research* (pp. 501-510). EPA-600/9-77-043, Washington, D.C.: U.S. Government Printing Office.

60. Donchin, E., & Heffley, E. (1978). Multivariate analysis of event-related potential data: A tutorial review. In D. Otto (Ed.), *Multidisciplinary perspectives in event-related brain potential research* (pp. 555-572). EPA-600/9-77-043, Washington, D.C.: U.S. Government Printing Office.
61. Squires, K. C., Wickens, C., Squires, N. K., & Donchin, E. (1978). Sequential dependencies of the waveform of the event-related potential: A preliminary report. In D. A. Otto (Ed.), *Multidisciplinary perspectives in event-related brain potential research* (pp. 215-217). EPA-6001-9-77-043, Washington, D.C.: U.S. Government Printing Office.
62. Donchin, E. (1979). Event-related brain potentials: A tool in the study of human information processing. In H. Begleiter (Ed.), *Evoked potentials and behavior* (pp. 13-75). New York: Plenum Press.
63. Duncan-Johnson, C. & Donchin, E. (1979). The time constant in P300 recording. *Psychophysiology*, *16*, 53-55.
64. McCarthy, G., & Donchin, E. (1979). Event-related potentials--Manifestations of cognitive activity. In F. Hoffmeister and C. Muller (Eds.), *Bayer-Symposium VII, Brain Function in Old Age* (pp. 318-335). New York: Springer-Verlag.
65. Donchin, E. & Heffley, E. F. (1979). The independence of the P300 and the CNV Reviewed: A reply to Wastell. *Biological Psychology*, *9*, 177-188.
66. Horst, R., & Donchin, E. (1980). Beyond averaging II: Single-trial classification of exogenous event-related potentials using stepwise discriminant analysis. *Electroencephalography and Clinical Neurophysiology*, *48*, 113-126.
67. Isreal, J. B., Chesney, G. L., Wickens, C. D., & Donchin, E. (1980). P300 and tracking difficulty: Evidence for multiple resources in dual-task performance. *Psychophysiology*, *17*, 259-273.
68. Johnson, R. Jr. & Donchin, E. (1980). P300 and stimulus categorization: Two plus one is not so different from one plus one. *Psychophysiology*, *17*, 167-178.
69. Donchin, E. & McCarthy, G. (1980). Event-related brain potentials in the study of cognitive processes. *Proceedings of Symposium on Neurological Bases of Language Disorders in Children: Methods and Direction for Research*. C. Ludlow and M. E.Doran-Quine (Eds.) Washington, D.C.: Government Printing Office, NINCDS Monograph #22, 109-128.

70. Isreal, J. B., Wickens, C. D., Chesney, G. L., & Donchin, E. (1980). The event-related brain potential as an index of display-monitoring workload. *Human Factors*, 1980, *22*, 212-224.
71. Kutas, M., & Donchin, E. (1980). Preparation to respond as manifested by movement-related brain potentials. *Brain Research*, *202*, 95-115.
72. Horst, R., Johnson, R., Jr., & Donchin, E. (1980). Event-related brain potentials and subjective probability in a learning task. *Memory and Cognition*, *8(5)*, 476-488.
73. Wickens, C.D., Heffley, E., Kramer, A. & Donchin, E. (1980) The event-related brain potential as an index of attention allocation in complex displays. *Proceedings of the 24th Annual Meeting of the Human Factors Society*. Santa Monica, CA, 1980.
74. McCarthy, G., & Donchin, E. (1981). A metric for thought: A comparison of P300 latency and reaction time. *Science*, *211*, 22-80.
75. Marshall, N. K., & Donchin, E. (1981). Circadian variation in the latency of brain stem responses: Its relation to body temperature. *Science*, *212*, 356-358.
76. Donchin, E. (1981). Surprise! . . . Surprise? *Psychophysiology*, *18*, 493-513.
77. Donchin, E. (1981). Event-related potentials in psychological research. *Jap. J. EEG EMG*, September, 1981, Supplement, 143-148.
78. Donchin, E., & Isreal, J. B. (1981). Event-related potentials--Approaches to cognitive psychology. In R. E. Snow, P. A. Federico, & W. E. Montague (Eds.) *Aptitude, learning, and instruction: Cognitive process analyses* (pp. 47-82). Hillsdale, N.J.: Lawrence Erlbaum Associates.
79. Donchin, E., & Isreal, J. B. (1981). Event-related potentials and psychological theory. In H. H. Kornhuber and L. Deecke (Eds.), *Motivation, motor and sensory processes of the brain: Electrical potentials, behavior and clinical use. Progress in Brain Research* (pp. 697-715). Amsterdam: Elsevier-North Holland.
80. Duncan-Johnson, C., & Donchin, E. (1981). The relation of P300 latency to reaction time as function of expectancy. In H. H. Kornhuber and L. Deecke (Eds.), *Motivation, motor and sensory processes of the brain: Electrical potentials, behavior and clinical use. Progress in Brain Research* (pp. 717-722). Amsterdam: Elsevier-North Holland.
81. Isreal, J. B., Wickens, C. D., & Donchin, E. (1981). The dynamics of P300 during dual-task performance. In H. H. Kornhuber and L. Deecke (Eds.), *Motivation, motor and sensory processes of the brain: Electrical potentials, behavior and clinical use. Progress in Brain Research* (pp. 416-421). Amsterdam: Elsevier-North Holland.
82. Marshall, N.K., & Donchin, E. (1981). Use of circadian changes in oral temperature in a parametric study of the BER. Proceedings of the 20th Annual Meeting, Society for Psychophysiological Research. *Psychophysiology*, *18*, 142.
83. Wickens, C., Gill, R., Kramer, A., Ross, W., & Donchin, E. (1981). The cognitive demands of second order manual control: Applications of the event-related brain potential. In A. Besczy and J. Lyman (Eds.), *Proceedings of the 17th Annual NASA Conference on Manual Control*, UCLA, Los Angeles, CA, June, 1981.
84. Bashore, T.R., McCarthy, G., Heffley, E.F., Clapman, R.M., & Donchin, E. (1982). Is handwriting posture associated with differences in motor control?: An analysis of asymmetries in the readiness potential, *Neuropsychologia*, *20*, 327-346.
85. Duncan-Johnson, C. C., & Donchin, E. (1982). The P300 component of the event-related brain potential as an index of information processing. *Biological Psychology*, *14*, 1-52.
86. Donchin, E. (1982). The relevance of dissociations and the irrelevance of

dissociationism: A reply to Schwartz and Pritchard, *Psychophysiology*, *19*, 457-463.

87. Johnson, R. Jr. & Donchin, E. (1982). Sequential expectancies and decision making in a changing environment: An electrophysiological approach. *Psychophysiology*, *19*, 183-200.
88. Donchin, E., Kramer, A., & Wickens, C. (1982). Probing the cognitive infrastructure with event-related brain potentials. In Frazier, M.C., & Crowbee, R.B. (Eds.), *Proceedings of the workshop on flight testing to identify pilot workload and pilot dynamics*, AFFTC-JR-82-5, Edwards Air Force Base, 371-387.
89. Donchin, E., McCarthy, G., Kutas, M., & Ritter, W. (1983). Event-related brain potentials in the study of consciousness. In Davidson, R., Schwartz, G., and Shapiro, D. (Eds.), *Consciousness and self regulation*, Vol. 3 (pp. 81-121). New York: Plenum Press.
90. McCarthy, G., & Donchin, E. (1983). Chronometric analyses of human information processing. In Gaillard, A. W. K., and Ritter, W. (Eds.) *Tutorials in event-related potential research: Endogenous components. Advances in Psychology* (pp. 251-268), Vol. 10, G. E. Stelmach and P. A. Voon (Eds.) Amsterdam: North Holland Publishing Co.
91. Gratton, G., Coles, M. G. H., & Donchin, E. (1983). A new method for off-line removal of ocular artifact. *Electroencephalography and Clinical Neurophysiology*, *55*, 468-484.
92. Karis, D., Chesney, G. L., & Donchin, E. (1983). ". . . 'twas ten to one; And yet we ventured. . .": P300 and Decision Making. *Psychophysiology*, *20(3)*, 260-268.
93. Polich, J. M., McCarthy, G., Wang, W. S., & Donchin, E. (1983). When words collide: Orthographic and phonological interference during word processing. *Biological Psychology*, *16*, 155-180.
94. Wickens, C., Kramer, A., Vanasse, L., & Donchin, E. (1983). The performance of concurrent tasks: A psychophysiological analysis of the reciprocity of information processing resources. *Science*, *221*, 1080-1082.
95. Kramer, A. F., Wickens, C. D., & Donchin, E. (1983). Analysis of the processing requirements of a complex perceptual-motor task. *Human Factors*, *25*, 597-621.
96. Donchin, E., Coles, M. G. H., & Gratton, G. (1984). Cognitive psychophysiology and preparatory processes: A case study. In S. N. Kornblum and J. Requin (Eds.), *Preparatory States and Processes* (pp. 155-178). Hillsdale, NJ: Erlbaum Associates.
97. Magliero, A., Bashore, T., Coles, M. G. H., & Donchin, E. (1984). On the dependence of P300 latency on stimulus evaluation processes. *Psychophysiology*, *21*, 171-186.
98. Klein, M., Coles, M. G. H., & Donchin, E. (1984). People with absolute pitch process tones without producing a P300. *Science*, *223*, 1306-1309.
99. Karis, D., Fabiani, M., & Donchin, E. (1984). P300 and memory: Individual differences in the von Restorff effect. *Cognitive Psychology*, *16*, 177-216.
100. Donchin, E. (1984). The dissociation of electrophysiology and behavior: A disaster or a challenge? In E. Donchin (Ed.) *Cognitive Psychophysiology* (pp. 107-118). Hillsdale, NJ: Erlbaum Associates.
101. Karis, D., Druckman, D., Lissak, R., & Donchin, E. (1984). A psychophysio-logical analysis of bargaining: ERPs and facial expressions. *Brain and Information: Event-Related Potentials*, Vol. 425, reprinted from *Annals of the New York Academy of Sciences*, 230-235.
102. Donchin, E., Heffley, E., Hillyard, S. A., Loveless, N., Maltzman, I., Ohman, A., Rosler,

F., Ruchkin, D., & Siddle, D. (1984). Cognition and event-related potentials. II. The Orienting Reflex and P300. *Brain and Information: Event-Related Potentials*, Vol. 425, reprinted from *Annals of the New York Academy of Sciences*, 39-57.

103. Wickens, C. D., Kramer, A., & Donchin, E. (1984). The event-related potential as an index of the processing demands of a complex target acquisition task. *Brain and Information: Event-Related Potentials*, Vol. 425, reprinted from the *Annals of the New York Academy of Sciences*, 295-299.
104. Donchin, E. (1984). The use of ERPs to monitor non-conscious mentation. Presented at the *20th Annual Conference on Manual Control*, Ames, California, June 12-14, 1984. NASA Conference Publication 2341, Vol 2, pp. 1-19. Compiled by Sandra G. Hart and Earl J. Hartzell.
105. Johnson, R. Jr., & Donchin, E. (1985). Second thoughts: Multiple P300s elicited by a single stimulus. *Psychophysiology*, *22*, 182-194.
106. Donchin, E. & Wilson, L. S. (1985). Negotiating the indirect cost of research: A review of the process. *American Psychologist*, *40*, 836-848.
107. Kramer, A. F., Wickens, C., & Donchin, E. (1985). The processing of stimulus properties: Evidence for dual-task integrality. *Journal of Experimental Psychology: Human Perception and Performance*, *11*, 393-408.
108. Coles, M. G. H., Gratton, G., Bashore, T. R., Eriksen, C. W., & Donchin, E. (1985). A psychophysiological investigation of the continuous flow model of human information processing. *Journal of Experimental Psychology: Human Perception and Performance*, *11*, 529-553.
109. Donchin, E. (1985). The forum on research management--An experiment in University-Government dialogue. *American Psychologist*, *40*, 826-830.
110. Heffley, E., Foote, B., Mui, T., & Donchin, E. (1985). PEARL II: Portable laboratory computer system for psychophysiological assessment using event related brain potentials. *Neurobehavioral Toxicology and Teratology*, *7*, 399-407.
111. Kramer, A. F., Schneider, W., Fisk, A., & Donchin, E. (1986). The effects of practice and task structure on components of the event-related brain potential. *Psychophysiology*, *23*, 33-47.
112. Donchin, E., Kramer, A., & Wickens, C. (1986). Applications of event-related brain potentials to problems in engineering psychology. In M.G.H. Coles, E. Donchin, & S. Porges (Eds.), *Psychophysiology: Systems, Processes, and Applications*. New York: Guilford Press.

113. Donchin, E., Karis, D., Bashore, T., Coles, M., & Gratton, G. (1986). Cognitive psychophysiology and human information processing. In M.G.H. Coles, E. Donchin, & S. Porges (Eds.), *Psychophysiology: Systems, Processes, and Applications*. New York: Guilford Press.
114. Fabiani, M., Karis, D., & Donchin, E. (1986). P300 and recall in an incidental memory paradigm, *Psychophysiology*, *23*, 298-308.
115. Gopher, D. & Donchin, E. (1986). Workload - An examination of the concept. In K. R. Boff, L. Kaufman, and J.P. Thomas (Eds.), *Handbook of Perception and Human Performance, Vol II, Cognitive Processes and Performance*. New York: Wiley & Sons.
116. Donchin, E., Miller, G. A., & Farwell, L. A. (1986). The endogenous components of the event-related potential -- A diagnostic tool? In D.F. Swaab, E. Fliers, M. Mirmiran, W.A. Van Gool, and F. Van Haaren (Eds.), *Aging of the Brain and Alzheimer's Disease* (pp. 87-102). Amsterdam: Elsevier. See also *Progress in Brain Research*, Vol. 70.
117. Kramer, A. F., & Donchin, E. (1987). Brain potentials as indices of orthographic and phonological interaction during word matching. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, *13*, 76-86.
118. Fabiani, M., Gratton, G., Karis, D., & Donchin, E. (1987). Definition, identification, and reliability of measurement of the P300 component of the event-related brain potential. In P.K. Ackles, J.R. Jennings, & M.G.H. Coles (Eds.), *Advances in Psychophysiology*, Vol. 2. Greenwich, CT: JAI Press, Inc., pp. 1-78.
119. Miller, G. A., Bashore, T. R., Farwell, L. A., & Donchin, E. (1987). Research in geriatric psychophysiology. In K.W. Schaie & C. Eisdorfer (Eds.), *Annual Review of Gerontology and Geriatrics*, Vol. 7. New York: Springer Publishing Company.
120. Donchin, E., Gratton, G., Dupree, D., & Coles, M. G. H. (1988). After a rash action: Latency and amplitude of the P300 following fast guesses. In G. C. Galbraith, M. L. Kietzman, & E. Donchin (Eds.), *Neurophysiology and Psychophysiology: Experimental and Clinical Applications* (pp. 173-188). Hillsdale, NJ: Erlbaum.
121. Polich, J. & Donchin, E. (1988). P300 and the word frequency effect. *Electroencephalography and Clinical Neurophysiology*, *70*, 33-45.
122. Donchin, E., & Coles, M. G. H. (1988a). Is the P300 component a manifestation of context updating? *The Behavioral and Brain Sciences*, *11*, 355-425.

123. Donchin, E. & Coles, M. G. H. (1988b). On the conceptual foundations of cognitive psychophysiology: A reply to comments. *The Behavioral and Brain Sciences, 11*, 406-425.
124. Gratton, G., Coles, M. G. H., Sirevaag, E. J., Eriksen, C. W., & Donchin, E. (1988). Pre- and post-stimulus activation of response channels: A psychophysiological analysis. *Journal of Experimental Psychology: Human Perception and Performance, 14*, 331-344.
125. Farwell, L. A., & Donchin, E. (1988). Talking off the top of your head: A mental prosthesis utilizing event-related brain potentials. *Electroencephalography and clinical Neurophysiology, 70*, 510-523.
126. Coles, M. G. H., Gratton, G., & Donchin, E. (1988). Detecting early communication: Using measures of movement-related potentials to illuminate human information Processing. *Biological Psychology, 26*, 69-89.
127. Gratton, G., Coles, M. G. H., & Donchin, E. (1989). A procedure for using multi-electrode information in the analysis of components of the event-related potentials: Vector filtering. *Psychophysiology, 26*, 222-232.
128. Gratton, G., Kramer, A. F., Coles, M. G. H., & Donchin, E. (1989). Simulation studies of the latency measures of components of event-related brain potentials. *Psychophysiology, 26*, 233-248.
129. Sirevaag, E., Kramer, A., Coles, M. G. H., & Donchin, E. (1989). Resource reciprocity: An event-related brain potentials analysis. *Acta Psychologica, 70*, 77-97.
130. Donchin, E. (1989). On why Collet's doubts regarding the PCA are misplaced. *Biological Psychology, 28*, 181-186.
131. Donchin, E. (1989). The Learning Strategies Project: Introductory Remarks. *Acta Psychologica, 71*, 1-15.
132. Foss, M. A., Fabiani, M., Mane, A. M., & Donchin, E. (1989). Unsupervised practice: The performance of the control group. *Acta Psychologica, 71*, 23-51.
133. Fabiani, M., Buckley, J., Gratton, G., Coles, M. G. H., Donchin, E., & Logie, R. (1989). The training of complex task performance. *Acta Psychologica, 71*, 259-299.
134. Mane, A., & Donchin, E. (1989). The space fortress game. *Acta Psychologica, 71*, 17-22.

135. Mane, A., Adams, J. A., & Donchin, E. (1989). Adaptive and part-whole training in the acquisition of a complex perceptual-motor skill. *Acta Psychologica, 71,* 179-196.
136. Logie, R., Baddeley, A., Mane, A. M., Donchin, E., & Sheptak, R. (1989). Working memory in the acquisition of complex cognitive skills. *Acta Psychologica, 71,* 53-87.
137. Stolar, N., Sparenborg, S., Donchin, E., & Gabriel, M. (1989). Conditional stimulus probability and activity of hippocampal, cingulate cortical, and limbic thalamic neurons during avoidance conditioning in rabbits. *Behavioral Neuroscience, 103,* 919-934.
138. Fabiani, M., Karis, D., & Donchin, E. (1990). Effects of mnemonic strategy manipulation in a von Restorff paradigm. *Electroencephalography and clinical Neurophysiology, 75,* 22-35.
139. Gratton, G., Bosco, C. M., Kramer, A. F., Coles, M. G. H., Wickens, C. D., & Donchin, E. (1990). Event-related brain potentials as indices of information extraction and response priming. *Electroencephalography and Clinical Neurophysiology, 75,* 419-432.
140. Fabiani, M., Gratton, G., Chiarenza, G. A., & Donchin, E. (1990). A psychophysiological investigation of the von Restorff paradigm in children. *Journal of Psychophysiology, 4,* 15-24.
141. Donchin, E., & Fabiani, M. (1991). The use of event-related brain potentials in the study of memory: Is P300 a measure of event distinctiveness? In J. R. Jennings & M. G. H. Coles (Eds.), *Handbook of cognitive psychophysiology: Central and autonomic nervous system approaches* (pp. 471-510). Chichester, UK: John Wiley.
142. Coles, M. G. H., & Donchin, E. (1991). While an undergraduate waits. *Neuropsychologia, 29* 557-569.
143. Farwell, L. A., & Donchin, E. (1991). The truth will out: Interrogative polygraphy ("lie detection") with event-related brain potentials. *Psychophysiology, 28,* 531-547.
144. Donchin, E., & Coles, M. G. H. (1991). Behavior, cognition and event-related brain potentials. *The Behavioral & Brain Sciences, 14,* 735-739.
145. Gehring, W. J., Gratton, G., Coles, M. G. H., & Donchin, E. (1992). Probability effects on stimulus evaluation and response processes. *Journal of Experimental Psychology: Human Perception and Performance, 18,* 198-216.

146. Osman, A., Bashore, T. R., Coles, M. G. H., Donchin, E., & Meyer, D. E. (1992). On the transmission of partial information: Inferences from movement-related brain potentials. *Journal of Experimental Psychology: Human Perception and Performance, 18*, 217-232.

147. Coles, M. G. H., Gehring, W. J., Gratton, G., & Donchin, E. (1992). Response activation and verification: A psychophysiological analysis. In G. E. Stelmach and J. Requin (Eds.), *Tutorials in motor behavior II* (pp. 779-792). Amsterdam: Elsevier.

148. Gratton, G., Coles, M. G. H., & Donchin, E. (1992). Optimizing the use of information: Strategic control of activation of responses. *Journal of Experimental Psychology: General, 121*, 480-506.

149. Gehring, W. J., Goss, B., Coles, M. G. H., Meyer, D. E., & Donchin, E. (1993). A neural mechanism system for error detection and compensation. *Psychological Science, 4*, 385-390.

150. Fabiani, M., & Donchin, E. (1995). Encoding processes and memory organization: A model of the von Restorff effect. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 21*, 224-240.

151. Donchin, E. (1995). Video games as research tools: The Space Fortress Game. *Behavior Research Methods, Instrumentation & Computers, 27*, 217-223.

152. Gehring, W. J., Coles, M. G. H., Donchin, E., & Meyer, D. E. (1995). A brain potential manifestation of error-related processing. In G. Karmos, M. Molnár, V. Csépe, I. Czigler, and J. E. Desmedt (Eds.), *Perspectives of event-related potentials research (EEG Suppl. 44)* (pp. 261-272). Amsterdam: Elsevier.

153. Scheffers, M., Coles, M. G. H., Bernstein, P., Gehring, W. J., & Donchin, E. (1996). Event-related brain potentials and error-related processing: An analysis of incorrect responses to Go and Nogo stimuli. *Psychophysiology, 33*, 42-53.

154. Vaughan, T. M., Wolpaw, J. R, & Donchin, E. (1996). EEG-based communication: prospects and problems. *IEEE Trans. On Rehabilitation Eng. 4*(4), Dec. 1996.

155. McCarley, R. W., Hsiao, J. K., Freedman, R., Pfefferbaum, A., & Donchin, E. (1996). Neuroimaging and the Cognitive Neuroscience of Schizophrenia. *Schizophrenia Bulletin, 22*(4), 703-725.

156. Donchin, E., Spencer, K. M., & Dien, J. (1997). The varieties of deviant experience: ERP manifestations of deviance processors. In van Boxtel, G.J.M. & Bocker, K.B.E. (Eds) Brain and Behavior: Past, Present, and Future, Tilburg University Press, Tilburg, 67-91.

157. Bischoff, L., Granot, R., & Donchin, E. (1998). Absolute pitch and the P300: The question of task difficulty and strategy, (Abstract), *Psychophysiology*, 35, S20.

158. Spencer, K. M., Karni, O., Wijensinghe, R., & Donchin, E. (1998). The mental prosthesis: Assessing the speed of a brain-computer interface (Abstract), *Psychophysiology*, 35, S78.

159. Spencer, K. M., Mecklinger, A., Friederici, A., & Donchin, E. (1998). Using a forest of electrodes to clear a garden path: Identifying the ERP components elicited by disambiguating words, (Abstract), *Psychophysiology*, S78.

160. Spencer, K. M., Dien, J., & Donchin, E. (1999). A componential analysis of the ERP elicited by novel events using a dense electrode array. Psychophysiology, 36, 409-414.

161. Bischoff, L., & Donchin, E. (1999). Absolute pitch and the P300: The question of task difficulty and strategy. In Yi, S. W. (Ed.), Music, mind and science (pp. 123-143).

Seoul: Seoul National University Press.

162. Otten, L., Granot, R., & Donchin, E., Integrality of the isolation cue in the Von Restorff effect and ERPs. Psychophysiology (Abstract).

163. Spencer, K. & Donchin, E. (2000) On the search for the neurophysiological manifestation of recollective experience. Psychophysiology. 37, 494-506

164. Picton, T. W., Bentin, S., Berg, P., Donchin, E., Hillyard, S. A., Johnson, Jr., R., Miller, G. A., Ritter, W., Ruchkin, D. S., Rugg, M. D., & Taylor, M. J. (in press). Guidelines for using human event-related potentials to study cognition: Recording standards and publication criteria. Psychophysiology

165. Otten, L., & Donchin, E. (2000). The Relationship between P300 amplitude and subsequent recall for distinctive events: Dependence on type of distinctiveness attribute, Psychophysiology, 37, 644 – 661

.

166. Donchin, E., Spencer, K. M., & Wijesinghe, R. The Mental Prosthesis: Assessing the Speed of a P300-Based Brain-Computer Interface, IEEE Trans. Rehab. Engineering, 2000,8, 174-179

167. Friederici, A. D., Mecklinger, A., Spencer, K. M., Steinhauer, K., & Donchin, E. (2001) Syntactic parsing preferences and their on-line revisions: A spatio-temporal analysis of event-related brain potentials, Cognitive Brain Research, 11, 305-323

168. .Kevin M. Spencer, Joseph Dien, and Emanuel Donchin, (2001) Spatiotemporal Analysis of the Late ERP Responses to Deviant Stimuli, Psychophysiology, 38, 343-358

.

169. Lian, J., Spencer, K.M., Dien J., Donchin, E., and Bin He, (2001) A Cortical Potential Imaging Analysis of the P300 and Novelty P3 Components, Human Brain Mapping. 12, 120-130

170. Granot, R., & Donchin, E. (2002). Do re mi fa so la ti – Constraints, congruity and musical training: An event-related brain potential study of musical expectancies. Music Perception. 19, 487-528

.

171. Goldstein, A., Spencer, K. M., & Donchin, E. (2002). The influence of stimulus deviance and novelty on the P300 and Novelty P3. Psychophysiology, 39, 781-790

.

172. Bischoff-Renninger, L., Granot, R., and Donchin, E. (2003) Absolute Pitch and the P300 Component of the Event-Related Potential: An Exploration of Variables that may Account for Individual Differences. Music Perception, 20, 357-382

173. Dien, J., Spencer, K. and Donchin, E. (2003) Localization of the event related potential novelty response as defined by principal components analysis. .*Cognitive Brain Research.* 17, 637-650

174. Dien, J., Spencer, K.S., and Donchin, E. Parsing the (2004):"Late Positive Complex": Mental Chronometry and the ERP components that inhabit the neighborhood of the P300, *Psychophysiology*, 41, 665-678

175. Bischoff-Renninger, L., Wilson, M. and Donchin, E. (2006) The Processing of Pitch and Scale: An ERP Study of Musicians with Training Outside of the Western Musical System.Empirical Musicology Review, 1,4.

176. Sellers, E. and Donchin, E. (2006) Brain-Computer Interface Research at the University of South Florida Cognitive Psychophysiology Laboratory: The P300 Speller IEEE Transactions on Neural Systems and Rehabilitation Engineering.

177. Donchin, E (2006). fMRI: Not the Only Way to Look at the Human Brain in Action. *APS Observer*, 19 (11).

*178.* Fishman, I. Goldman, M. and Donchin, E. (2008) The P300 as an Electrophysiological Probe of Alcohol Expectancy, *Experimental and Clinical Psychopharmacology* 4, 341-356

180. Arbel, Y., & Donchin, E. (2009). Parsing the Componential Structure of Post Error ERPs: A Principal Component Analysis of ERPs following errors. Psychophysiology, 46(6), 1288-1298.

181. Donchin, E., & Arbel, Y. (2009). P300 Based Brain Computer Interfaces: A Progress Report. Proceedings of the 2009 HCI International Conference, San Diego, CA.

182. Li, K., Sankar, R., **Arbel, Y.**, & Donchin, E. (2009). P300 Based Single Trial Independent Component Analysis on EEG Signal. Foundations of Augmented Cognition. Neuroergonomics and Operational NeuroscienceLecture Notes in Computer Science, 2009, 5638/2009, 404-41.

183. Potts, GF, Martin, LE, Kamp, SM, Donchin, E (2011). Neural Response to Action and Reward Prediction Errors: Comparing the Error Related Negativity to Behavioral Errors and the Feedback Related Negativity to Reward Prediction Violations. Psychophysiology. Psychophysiology, 48(2), 218-228

184 Arbel, Y., Spencer, K. & Donchin, E. (2011). The N400 and the P300 are not all that independent. Psychophysiology, 48(6), 861-875..

185. Arbel, Y., Donchin, E. (2011). How large the sin? A study of the Event Related Potentials elicited by errors of varying magnitude. Psychophysiology, 48(12), 1611-1620

**186. Arbel, Y.**, & Donchin, E. (2011). When a child Errs: The ERN and the Pe Complex in Children. *Psychophysiology*, *48*(1), *55-63*

187 Sellers, E.W. Arbel, Y.Donchin, E,(2012) BCIs that use P300 Event Related Potentials in Wolpaw, J.R , Wolpaw, E.W. "Brain-Computer Interfaces: Principles and Practice, Oxford U. Press, pp 215-226

188. Brumback, T., Arbel, Y., Donchin, E., Goldman, M. S (2012). Efficiency of responding to unexpected information varies with sex, age, and pubertal development in early adolescence. Psychophysiology, 49(10), pp 1330-1339

,

189. Kamp, S., Forester, G.R., Murphy, A.R., Brumback, T., & Donchin, E. (2012). Testing a distinctiveness explanation of the primacy effect in free recall using event-related potentials. In N. Miyake, D. Peebles, & R. P. Cooper (Eds.), *Proceedings of the 34th Annual Conference of the Cognitive Science Society* (pp.539-544). Austin, TX: Cognitive Science Society.

190**.** Brumback, T., Arbel, Y., Donchin, E., Goldman, M. S (2012). Efficiency of responding to unexpected information varies with sex, age, and pubertal development in early adolescence. Psychophysiology, 49(10), pp 1330-1339

,

191. Kamp, S., Forester, G.R., Murphy, A.R., Brumback, T., & Donchin, E. (2012). Testing a

distinctiveness explanation of the primacy effect in free recall using event-related potentials. In N. Miyake, D. Peebles, & R. P. Cooper (Eds.), Proceedings of the 34th Annual Conference of the Cognitive Science Society (pp.539-544). Austin, TX: Cognitive Science Society.

192. Li, K., Sankar, R., Arbel, Y., & Donchin, E. (2012). A New Single Trial P300 Classification Method. International Journal of E-Health and Medical Communications.3(4) 31-41

193. Meijer, E.H. Ben-Shakhar, G. Versuchere B. and Donchin, E. (2012) A comment on Farwell (2012): Brain Fingerprinting: A comprehensive tutorial review of the detection of concealed information with event-related potentials. Cognitive Neurodynamics

194.Arbel, Y., Goforth, K., & Donchin, E. (2013). The Good, the Bad, or the Useful? Is the Feedback Related Negativity (fERN) an Outcome Assessment tool or a Reinforcement signal? Journal of Cognitive Neuroscience. 25(8), 1249-1260.

195 Siri-Maria Kamp, Anthony R. Murphy and Emanuel Donchin (in Press) The Component structure of Event-Related Potentials in the P300 Speller Paradigm, J. Cog. Neuroscience.

196 Siri-Maria Kamp, Tyler Brumback and Emanuel Donchin, (in press) The Component Structure of ERP Subsequent Memory Effects in the Von Restorff Paradigm and the Word Frequency Effect in Recall, Psychophysiology.

**197. Arbel, Y.,** Murphy, A., & Donchin (under review). On the utility of positive and negative feedback in a paired-associate learning task.

**198. Arbel, Y.**, & Donchin, E. (under review). Error and feedback processing by children with Specific Language Impairment—an ERP study.

Recent published abstracts

. Arbel, Y., Alqasemi, R., Dubey, R. & Donchin, E. (2007). Adapting the P300-Brain Computer Interface (BCI) for the control of a wheelchair-mounted robotic arm system. Psychophysiology, 44, S1, S82-83.

Arbel, Y., & Donchin, E. (2008). Speed accuracy tradeoff of the P300 BCI speller measured in real time. Psychophysiology, 45, S1, S107.

.

Brumback, T., Arbel, Y., Goldman, M. S., & Donchin, E. (2008). Using alcohol expectancies to compare ERPs to semantically incongruent & subjectively incongruent sentences. Psychophysiology, 45, S1, S62.

De Laurentis, K., Arbel, Y., Donchin, E., and Dubey, R. (2008). Implementation of a P300 Brain Computer Interface for the control of a wheelchair mounted robotic arm system. ASME 2008 Summer Bioengineering Conference, FL.

Arbel, Y., & Donchin, E. (2010). The processing of redundant feedback by children –An analysis of the error related ERP components. Psychophysiology, 47, S1, S46.

Brumback, T., Arbel, Y., & Donchin, E. (2008). The effect of feedback type on error-related Event-Related Potential components. The 2008 Association for Psychological Science (APS) Annual Convention, Chicago.

Clay, S. N., Arbel, Y., & Donchin, E. (2011). What's new? A study of the stability of the Novelty P3. Psychophysiology, 48, S1, S79.

Del Rossi G., Arbel Y., Donchin E. (submitted). Using event related potentials (ERPs) to evaluate the effects of sub-concussive and concussive impacts on cognitive processing of the brain: a case report.

Siri-Maria Kamp, Anthony R. Murphy, Glen R. Forester, & Emanuel Donchin AN EXAMINATION OF PUPIL DILATION RESPONSE, P300 AND NOVELTY P3, AND THEIR RELATIONSHIP TO REACTION TIME Society of Psychological Research, Annual Meeting, Poster, 2013.