

Robert J. Marks II

Curriculum Vitae

Abbreviated

(Amplified CV also available: check for hyperlinks)

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1 Education

- ◇ Ph.D., Electrical Engineering, Texas Tech University, 1977
- ◇ M.S., Electrical Engineering, Rose-Hulman Institute of Technology, 1973
- ◇ B.S., Engineering, Rose-Hulman Institute of Technology, 1972
- ◇ Garfield Heights High School, 1968.

2 Contact Information

- ◇ Email: Robert.Marks@Baylor.edu
- ◇ Web Page: RobertMarks.org
- ◇ Office: Baylor Campus, Rogers Bldg. 305C
- ◇ Office Phone: (254) 710-7302
- ◇ Mailing Address: One Bear Place #97356, Waco, TX 76798-7356

3 Employment History

- ◇ 2003-present: Distinguished Professor of Electrical and Computer Science, Baylor University.
 - 2018-present: Director, Walter Bradley Center for Natural & Artificial Intelligence
 - 2003-2005: Graduate Program Director, Departments of Mechanical and Electrical & Computer Engineering, Baylor University.
 - 2004-2008: Baylor Christian Graduate Student/Faculty Fellowship, Faculty Advisor.
 - 2004-2007: University Tenure Committee, Chair (2006-2007), Member (2004-2006).
 - 2008-2014: Faculty Search Committee, Chair.
 - 2008-2009: ECE Lecturer Search Committee, Chair.
 - 2008-2011: ECE Tenure Policy Committee, Chair.
 - 2008-2017: IEEE Baylor Student Branch, Faculty Advisor.
 - 2009-2011: Baylor Compensation, Benefits, and Personnel Committee, Member.
 - 2017-2018: University Faculty Dismissal Committee, Member
 - 2014- : ECE Graduate Studies Committee, Member
 - 2016- : American Scientific Affiliation (ASA) Baylor Student Group, Faculty co-advisor

- 2017- : Oso Logos/Ratio Christi (Christian apologetics) Baylor Student Group, Faculty co-advisor
- 2017- : Department Awards Committee, Chair
- 2025- : ECS Awards Committee, Member
- ◇ 1978-2003: University of Washington, Seattle
 - 1987-2003: Professor of Electrical Engineering,
 - 1982-1987: Associate Professor of Electrical Engineering,
 - 1978-1982: Assistant Professor of Electrical Engineering.
- ◇ 1975-1977: Research Assistant, Texas Tech University, Lubbock, Texas.
- ◇ 1974-1975: Reliability Engineer, Crane Naval Weapons Depot, Crane, Indiana.
- ◇ 1972-1973: Graduate Student Teaching Assistant, Rose-Hulman Institute of Technology, Terre Haute, Indiana.
- ◇ 1970-1975: Disc Jockey, WPFR, Terre Haute, Indiana.
- ◇ 1968-1972: Student, Rose-Hulman Institute of Technology, Terre Haute, Indiana.

4 Recognition

4.1 Honors & Awards

- ◇ Fellow: Optica - formerly the Optical Society of America (OSA)¹
- ◇ Fellow: Institute of Electrical & Electronic Engineers (IEEE)² [Certificate]
- ◇ Fellow: International Academy of Artificial Intelligence Sciences [Certificate, Web Page, Cache.]
- ◇ Senior Fellow: Walter Bradley Center for Natural and Artificial Intelligence, Discovery Institute. [Web Page, Cache.]
- ◇ Honorary Inductee: Junior Membership in the Ohio Academy of Science (at the age of seventeen)
- ◇ IEEE Distinguished Lecturer
- ◇ Honorary Member: Puget Sound Section of the Optical Society of America [Certificate]

- ◇ IEEE Centennial Medal and Certificate (1984) [Certificate]

¹“For contributions to image recovery and synthesis, optical processing, and eletro-optical neural networks.”

²“For leadership and contributions to the field of neural networks.”

- ◇ IEEE Outstanding Branch Counselor/Advisor Award
- ◇ Charter President of the IEEE Neural Networks Council
- ◇ Rose-Hulman Institute of Technology Outstanding Young Alumni Award [Certificate]
- ◇ Texas Tech Electrical Engineering Academy
- ◇ IEEE Neural Networks Council Meritorious Service Award
- ◇ IEEE CASS (Circuits and Systems Society) Golden Jubilee Medal [Certificate]
- ◇ Judith Stitt Award, American Brachytherapy Society 23rd Annual Meeting (2001)
- ◇ NASA Tech Brief Award (2004) [Certificate]
- ◇ Pioneer in Neural Network Award (IJCNN) (2006)
- ◇ IEEE Dallas Section Volunteer of the Year Award (2007)
- ◇ DARPA³
- ◇ 1983 Jan 1, IEEE Senior Member
- ◇ 1993 October 22. The IEEE/Nagoya University acknowledges its gratitude to Dr. R. J. Marks II for participation in the World Wisemen/women Workshop
- ◇ “Innovation to Impact” Medal, Baylor University (corecipients with Joshua Marks and Jonathan Swindell) April 2025. [medal, program]

4.2 Listings

- ◇ *Access Research Network* top award for the “Top 10 Darwin and Design Science Stories” for 2009. ⁴
- ◇ CollegeCrunch.org. “The 20 Most Brilliant Christian Professors,” April 4, 2010. ⁵

³ DARPA Radar/Communications Co-Design Challenge (2015) Arlington, VA 22203-2114. “The SSPARC [Shared Spectrum Access for Radar and Communications] program office will bring together a few [four] of the most senior, idea-driven, thoughtful researchers that have spanned both the radar and communications disciplines through their careers and challenge them to offer a vision of how to tackle the joint radar and communications co-design problem.”

⁴ “*Access Research Network* has just released its annual ‘Top 10 Darwin and Design Science Stories’ for 2009. Gaining top honors on the list was a peer-reviewed article by intelligent design theorists William Dembski and Robert Marks II in the September 2009 journal *IEEE Transactions on Systems, Man and Cybernetics*. The authors used computer simulations and information theory to challenge the ability of neo-Darwinian processes to create new functional genetic information.”

⁵ “The professors listed here are all ‘brilliant’ in the original sense of the word they shine brightly among their peers as towering figures in the academic world. In addition, they are all Christians who do not hide their Christianity and see it as significantly impacting their intellectual work.” “Robert J. Marks II, Distinguished Professor of Electrical and Computer Engineering at Baylor University. A founder of the field of computational intelligence (comprising fuzzy sets, neural networks, and evolutionary computing), Marks

- ◇ SuperScholar.org. “The 20 Most Influential Christian Scholars,” 2010. [Link] ⁶
- ◇ TheBestSchools.org. “The 50 Smartest People of Faith.” Feb 17, 2018.⁷
- ◇ L. A.Yahaya, “PERSONAL CHARACTERISTICS OF REPUTABLE SCHOLARS” 2013.⁸

has published hundreds of articles on an very wide range of problems (everything from optimal detection of non-Gaussian noise to proper placement of radioactive inserts to treat prostate cancer). His work has enormous practical implications that are felt every day all major North American utilities deliver energy using his work on neural networks. An Christian intent on understanding teleology in nature, Marks founded the Evolutionary Informatics Lab, which publishes peer-reviewed scientific papers supporting the controversial theory of intelligent design.”

⁶“Super Scholars 20 most influential Christian scholars have profoundly influenced the world by advancing Christian belief, by reconceptualizing it, or even by fundamentally challenging it. In any case, each of the thinkers below has deeply impacted Western cultures self-understanding.” “Robert J. Marks II (b. 1950), Baylor Universitys leading research professor, has emerged as the public face of intelligent design. As the movements premier scientist, he has been dubbed the Charles Darwin of intelligent design. At one point, his research on intelligent design was removed by Baylor officials from the universitys website. Since then he has published seminal work on such themes as whether computers have minds and whether Darwinian processes can generate biological information. He is widely quoted as saying, Computers are no more able to create information than iPods are capable of creating music. His Law of Conservation of Information purports to demonstrate inherent limitations on natural selection, suggesting that the intricate information needed for life requires an intelligent source

⁷ The qualifications for inclusion on our list are twofold

1. Intellectual brilliance, evidenced by a very high level of achievement, whether in the natural sciences, the social sciences, the humanities, literature, the fine arts, or public service; and
2. Religious faith, evidenced either through explicit personal witness or through publicly professed respect for religion.

By “religious faith,” we mean religion in the monotheistic, or Abrahamic, tradition which we happen to know best. We do not doubt that a similar list of brilliant and devout Hindus, Buddhists, Daoists, Confucianists, Shintoists, and others could easily be drawn up, and we hope it will be, by those qualified to do so.

It is presented in alphabetical order.

⋮

Robert J. Marks II (b. 1950). Marks was born in West Virginia. He was educated at the Rose-Hulman Institute of Technology (BS, Engineering, 1972; MS, Electrical Engineering, 1973) and Texas Tech (PhD, Electrical Engineering, 1977). He taught for many years at the University of Washington, in Seattle. He is currently Distinguished Professor of Electrical and Computer Engineering at Baylor University, in Waco, Texas. Marks, who is Protestant, has made a number of contributions to cutting-edge technology at the interface between electrical engineering and computer science. For example, in 1991 he was the first to apply artificial neural networks to the problem of forecasting power demands by electrical utility companies a practice that is widespread today. More recently, Marks and colleagues developed an algorithm for the real-time tracking of the placement of radioactive seeds in prostate cancer therapy. In addition, his team developed the first closed-form solution for the Neyman-Pearson optimal detection of signals in non-Gaussian noise. In 2007, Marks inaugurated his *Evolutionary Informatics Lab*, a web site dedicated to simulating evolutionary processes. The Lab which has demonstrated severe constraints on the creative potential of Darwinian-style algorithms was afterwards shut down by the Baylor University administration, and Marks has since moved it to a private server. Books: *Fuzzy Logic Technology and Applications*, editor (IEEE, 1994); *Neural Smithing: Supervised Learning in Feedforward Artificial Neural Networks*, co-author (MIT Press/Bradford Books, 1999); *Handbook of Fourier Analysis and Its Applications*, (Oxford UP, 2009)

⁸“Academic profession like other essential professions has its demands. For anyone to succeed in the profession, he/she needs to possess some personal characteristics. The focus of this presentation is to sensitize

- ◇ TheBestSchools.org. “The 50 Most Influential Scientists in the World Today.” November 1, 2019. [Link]⁹

academic staff, particularly the young academics on the personal characteristics that are required to succeed in academic career. Some notable scholars who possessed the appropriate personality characteristics and that have excelled in academic endeavour include: Fransisco Ayala, Abdulhamid Bin Badis, Ali Jabar, Abdul Qader Arnaoot, Peter L. Berger, Benjamin Carson, Hassan Hathont , Francis Collins , Omar Khalidi, Robert J. Marks. Others are...

⁹ From biotechnology and digital media to sustainable energy and cloud computing, almost everything today is somehow affected and sometimes entirely reshaped by scientific and technological advances.

By science in this article we mean the natural and engineering sciences (we thus exclude pure mathematics as well as the social sciences). Thus, in this article, we focus on scientists in the biological, medical, and physical sciences as well as those concerned with technology and especially computers.

As a society, we have come to take the fruits of science for granted, such as our use of computers, our access to running water and electricity, and our dependence on various forms of transportation and communication. But all such benefits follow from the discoveries and inventions of scientists as they pursue deep insights into the workings of nature and its materials.

This article focuses on the 50 most influential scientists alive today and their profound contributions to science. These are scientists who have invented the Internet and fiber optics, challenged AIDS and cancer, developed new drugs, and in general made crucial advances in medicine, genetics, astronomy, ecology, physics, and computer programming.

In referring to the scientists on this list as “influential,” this article attempts to gauge their influence on science as such. In other words, the scientists listed here are influential because of the groundbreaking scientific work they have done and its impact on the world.

Some scientists are enormously influential as popularizers or culture critics or public intellectuals. In this respect, figures like Richard Dawkins and Lawrence Krauss, or Carl Sagan and Stephen Jay Gould a generation back, come to mind. The scientists on this list, however, are here because of their preeminence as scientists doing science.

The scientists described here are all creative and brilliant. Many of them are also unusual and interesting colorful personalities that it would be a pleasure to know!

As you feast on the names and biographies of the scientists on this list, also check out our article The Worlds 50 Smartest Teenagers. Some of the most influential scientists in the future will be drawn from this list.

⋮

Robert J. Marks II

Robert J. Marks II is Distinguished Professor of Electrical and Computer Engineering at Baylor University in Waco, Texas. Previously, he was on the faculty of the University of Washington for 25 years. He is a pioneer in the field of computational intelligence (which includes neural networks, fuzzy sets, and evolutionary computing), and was the first president of the Institute of Electrical and Electronics Engineers (IEEE) Neural Networks Council.

Marks received his PhD in electrical engineering from Texas Tech University. He has over 400 peer-reviewed journal publications. [Some of them are good.] He is also a proponent of intelligent design, holding that certain features of the universe and of living things are best explained by an intelligent cause, not an undirected process such as natural selection.

Marks has made important technical contributions across widely diverse areas, such as the spacing of radium inserts to treat prostate cancer, signal display, remote sensing, optical image sampling, optical computers, and the use of fuzzy logic to control the electrical grid (how electricity is delivered today depends crucially on the work of Marks). He has served as a consultant to companies such as Microsoft and Boeing corporation.

4.3 Honorary Conference Positions

- ◇ International Chair & Advisory Board Member The RNNS [Russian Neural Network Society] IEEE Symposium on Neuroinformatics and Neurocomputing, Rostov-on-Don, Russia, October 7-10, 1992
- ◇ International Advisory Co-Chair. International Joint Conference on Neural Networks (IJCNN), Beijing, China. November 1992
- ◇ International Advisory Committee Member. International Joint Conference on Neural Networks (IJCNN), Nagoya, Japan, October 25-29, 1993.
- ◇ International Conference on Neural Information Processing (ICONIP '95), October 30 - November 3, 1995, Beijing China. International Advisory Committee, Member.
- ◇ 1993 IEEE/Tsukuba International Workshop on Advanced Robotics, November 8-9, 1993, AIST Tsukuba, Japan - Advisory Committee
- ◇ Honorary Program Committee Member. IEEE/IAFE [International Association of Financial Engineers] Computational Intelligence in Financial Engineering, (CIFER).
 - Nashville, TN, March 30-April 2, 2009,
 - Paris, France, April 11-15, 2011.
- ◇ International Symposium on Neural Networks (ISNN) Advisory Committee.
 - 3rd International Symposium on Neural Networks (ISNN 2006) Chengdu, China, May 28 - June 1, 2006
 - 4th International Symposium on Neural Networks (ISNN 2007) Nanjing, China June 3-7, 2007
 - 5th International Symposium on Neural Networks (ISNN 2008) Beijing, China, September 24-28, 2008
 - 6th International Symposium on Neural Networks (ISNN 2009) Wuhan, China, May 26-29, 2009

Marks has authored several books including, the Handbook of Fourier Analysis and Its Applications, Neural Smithing: Supervised Learning in Feedforward Artificial Neural Networks, and Applications of Neural Networks to Power Systems, among others.

Marks has received numerous awards, including the IEEE Distinguished Lecturer twice, once from the IEEE Neural Networks Council in 1991/92, and again from the IEEE Neural Networks Society in 2002/03, as well as the Golden Jubilee Medal in 1999 from the IEEE Circuits and Systems Society. He is a fellow of the IEEE.

In 2007, Marks founded the Evolutionary Informatics Lab at Baylor to study the information-theoretic underpinnings of intelligent design. The research of that lab has produced a steady stream of peer-reviewed engineering publications that are influencing many in the engineering community to accept intelligent design, controversial though it remains, as a legitimate scientific theory.

- 7th International Symposium on Neural Networks (ISNN 2010) Shanghai, China, June 6-9, 2010
- 7th International Symposium on Neural Networks (ISNN 2011) Guilin, China May 29 June 1, 2011

5 Professional Societies

5.1 Publication Administration

◊ IEEE

- IEEE Transactions on Neural Networks, Editor-in-Chief (1992-1997) .
- IEEE Transactions on Fuzzy Systems [Associate Editor]
- IEEE Transactions on Systems, Man & Cybernetics, Associate Editor (2011-2014)
- IEEE Transactions on Neural Networks [Co Guest Editor], “Everyday Applications of Neural Networks,” Special Issue (1996).
- Neural Network Implementation, IEEE Circuits & Devices Magazine, 1989 [Analog — Optical — Digital]

◊ Optical Society of America

- Journal of the Optical Society of America A [Topical Editor, Optics and Image Science in Optical Signal Processing and Image Science (1990-92)]

◊ Other¹⁰

- <http://bio-complexity.org/>
 - † Editorial Board Member (2010-2014),
 - † Editor-in-Chief (2015-present).
- International Journal of Neurocomputing, Editorial Board Member (1989-1992).
- BioCosmos, Editorial Board [2021-present]
- International Journal of Computer Vision & Signal Processing, Editorial Board Member (2011-present)
- Neurocomputing [Editorial Board]. V. David Sanchez A., “Presenting the Editorial Board,” Neurocomputing, An International Journal, vol.2 (1990) pp. 1-3.
- Australian Journal Of Intelligent Information Processing Systems [Editorial Board]
- Journal of Advanced Computational Intelligence [Editor] (1996-present)
- Association for Computing Machinery, The ACM SIGART Magazine of Intelligent Machinery, Editorial Board, (1996-2000).

¹⁰I am often asked to join this or that editorial board, but have quit joining.

- JOURNAL OF SAMPLING THEORY IN SIGNAL AND IMAGE PROCESSING - An International Journal, Editorial Board Member (2000-2014).
- JOURNAL OF ENGINEERING RESEARCH, International Advisory Editorial Board (2002-2004).
- International Journal of Soft and Intelligent Computing and Mathematics, Editorial Board Member (2008-2009).
- International Journal of Artificial Life Research, Editorial Board Member (2009-2011).

5.2 Administrative

- ◇ IEEE Technical Activities Board
 - Technical Activities Board, Member (1990-91).
 - IEEE Technical Activities Board New Technology Directions Committee (1991 - Member).
 - IEEE TAB Meetings Council (1992 -member).
 - Division X Director Nominating Committee (1992 - Chair).
 - TAB Periodicals Council ad hoc Subcommittee on Budgetary Needs (1993 - Member).
 - TAB Transactions Committee (1996 - member).
- ◇ IEEE Computer Society
 - Task Force on Virtual Intelligence
- ◇ IEEE LEOS
 - Representative to the IEEE Neural Networks Council (1994-96).
- ◇ IEEE Power Engineering Society
 - Representative to the IEEE Neural Networks Council (2002-04) [Certificate]
- ◇ IEEE Circuits and Systems Society
 - Fellows Committee (2004)
 - Vice-President of Administration (2003-04)
 - Chair, Administrative Activities Committee (2004).
 - Board of Governors (1994-99, 2000-02)
 - Restructuring and Best Practices Committee (Chair 2002).
 - Society Parliamentarian (2001-04)
 - CASS Policies and Procedures Formation Committee, Chair (2003, 2004).

- Budget Committee, Chair (2003, 2004).
- Technical Society on Neural Systems and Applications in the IEEE Circuits and Systems Society
 - † Co-Founder (1987)
 - † First Chair (1987-89)
- Darlington Award Committee (1996)-member
- CAS Publications Steering Committee (1996-97) member
- Constitution & Bylaws Committee (2000 member; 2002-03 Chair)
- Restructuring Committee (2001-02) member
- Representative to the IEEE Neural Networks Council (1996-98)
- Representative to the IEEE Neural Networks Committee (1987-88)
- Member, Board of Governors [Certificate]
- ◇ IEEE Nanotechnology Council
 - AdCom Member (2004-06)
- ◇ IEEE Computational Intelligence Society
 - Awards Chair (2004-05)
 - AdCom Member (2004-07)
 - Fellows Committee (Member, 2004-05 ; Chair 2006)
 - Representative to the IEEE Nanotechnology Council (2004-06)
 - Technical Committee of Neural Networks Member (2004-06)
 - Founder and First Chair, CIS Chapter of the Dallas IEEE Section (2006-07). [Certificate]
- ◇ IEEE Neural Networks Society
 - AdCom Member (2002-4).
 - Technical Activities Committee (Member 2002)
- ◇ IEEE Neural Networks Council
 - (first) President, (1990-91)
 - Past President (1992-93)
 - Nomination Committee Chair (1992-93)
 - Constitution & Bylaws Committee Chair (1997)
 - Technical Committees (member)
 - † Neural Networks Technical Committee (1996-2004)

- † Computational Finance Technical Committee (1995-2000)
- † Awards Committee (member, 1997, 1999-2001)
- † Fellows Evaluation Committee (member, 1997-2001)
- † Publications Committee (member, 1999)
- Projects initiated during this period.
 - † The International Conference of Fuzzy Systems (FUZZ-IEEE).
 - † The Neural Networks Newsletter (CoNNections).
 - † The Neural Networks Council Forum meeting series.
 - † Neural Network Council Book Series (IEEE Press).
 - † IEEE Neural Networks Council Pioneer Awards.
 - † The IEEE Transactions on Fuzzy Systems.
 - † The World Congress on Computational Intelligence
 - † IEEE Neural Networks Standards Committee.
 - † IEEE Neural Networks Distinguished Lecture Program.
- ◇ IEEE Neural Networks Committee
 - Chair (1989)
 - Chair pro tem (1988-89)
 - Secretary (1988).
 - Ad Hoc Committee for founding the IEEE Transactions on Neural Networks (Chair)
 - Projects initiated during Chairmanship
 - † The IEEE Transactions on Neural Networks.
 - † The first International Joint Conference of Neural Networks.
- ◇ IEEE
 - Faculty Advisor to UW Student Section (1978-81).
 - Faculty Advisor to Baylor Student Section (2008-present).
- ◇ Optical Society of America
 - Puget Sound Section of the Optical Society of America
 - † Co-Founder (1987).
 - † First President (1987-88).
 - † (First) Honorary Member (1988).

5.3 Conferences

- ◇ IEEE Conference on Computational Intelligence for Financial Engineering & Economics (CIFEr)
 - New York, New York, April 9-11, 1995, Program Co-Chair
 - New York, New York, March 24-26, 1996, Co-Chair
 - New York, New York, April 9-11, 1997, Co-Chair
 - New York, New York, March 29-31, 1998, Co-Chair
 - Nashville, TN, March 30-April 2, 2009, Honorary Program Committee Member
 - Paris, France, April 11-15, 2011, Honorary Program Chair
- ◇ IEEE World Congress on Computational Intelligence
 - Orlando, FL, July 1994, Technical Program Director
 - Anchorage, AL, 1998, Tutorials Chair
- ◇ Information Processing by Neural Networks, (IP+NN '97), October 10-17, 1997, Ukraine, Crimea, Gurzuf Russian Academy of Science, Russian Neural Network Society, International Academy of Computer Science; Program Co-Chair.
- ◇ IEEE International Conference on Fuzzy Systems (FUZZ-IEEE)
 - Yokohama, Japan, March 20 to March 24, 1995, International Program Committee
 - Seoul, Korea, August 22-25, 1999, International Organizing Committee Member
- ◇ IEEE Virtual Reality Annual International Symposium (VRAIS)
 - 1993 Seattle, (first) Organizing Chair
 - 1995 Research Triangle Park, NC, Organization Chair
- ◇ The RNNS [Russian Neural Network Society] IEEE Symposium on Neuroinformatics and Neurocomputing
 - Rostov-on-Don, Russia, October 7-10, 1992, International Chair
 - Rostov-on-Don, Russia, October 9-11, 1995, Program Co-Chair
- ◇ IEEE-SP International Symposium on Time-Frequency and Time-Scale Analysis, Victoria, BC; October 4-6, 1992, Organization Chair
- ◇ International Forum on Applications of Neural Networks to Power Systems. July 23-26, 1991, Seattle, WA.
 - Technical Program Chair
 - Tutorial Chair

- Host Committee, Member
- Potentials & Challenges of Neural Network Applications to Power, Systems, Panel Member
- ◇ International Workshop on Artificial Neural Networks (IWANN '93), June 9-11, 1993, Barcelona, Spain, (sic) Programme Committee Member
- ◇ International Conference on Neural Networks (ICNN)
 - 1988 San Diego ICNN, Program Committee Member
 - 1993 San Francisco ICNN, Program Committee Member
 - 1994 Perth ICNN, Technical Program Co-Chair
- ◇ International Joint Conference on Neural Networks (IJCNN)
 - 1989 Washington D.C. IJCNN, January 1989, Planning Committee Member
 - 1991 Singapore IJCNN, 18-21 Nov. 1991, Technical Program Committee Member
 - IEEE Neural Networks President's Forum, Moderator, at the 1991 Seattle IJCNN (Tuesday, July 9, 1991) - Presidents of Chinese, European, Japanese and Russian neural network professional societies - (presentation and panel discussion).
 - 1992 Beijing IJCNN, November 1992, International Advisory Co-Chair.
 - 1993 Nagoya (Japan) IJCNN, October 25-29, 1993.
 - † Program Committee Co-Chair
 - † Advisory Committee Member
 - 2000 Como, Italy IJCNN, July 24-27, 2000 .
 - † Special Sessions Chair
- ◇ IEEE International Symposium on Circuits and Systems (ISCAS)
 - 1987 ISCAS, Philadelphia (May 6, 1987), Artificial Neural Systems and Applications, Session Organizer and Co-Chair
 - 1989 ISCAS, 9 May 1989, Portland., Neural Networks Session Chair
 - 1994 ISCAS, London, Program Committee Member
 - 1995 ISCAS, Seattle, General Chair
 - 1996 ISCAS, Atlanta, Steering Committee Member
- ◇ New Zealand International Two-Stream Conference on Artificial Neural Networks and Expert Systems (ANNES).
 - Programme Committee -member; (ANNES '93), November 24-26, 1993, Otago University, Dunedin, New Zealand.
 - International Programme Committee -member; (ANNES '94), November 20-23, 1995, University of Otago, Dunedin, New Zealand.

- ◇ International Conference of Neural Information Processing (ICONIP),
 - ICONIP 1994, Seoul, Korea (International Advisory Committee)
 - ICONIP '95, Oct 30 - Nov 3, 1995, Beijing, China, International Advisory Committee, Member
- ◇ American Mathematical Society
 - 1051st AMS Meeting, Baylor University, October 16-18, 2009, Session CoOrganizer (with John Davis and Ian Gravagne) Dynamic Equations on Time Scales: Analysis and Applications.
- ◇ IEEE Symposium on Swarm Intelligence, Pasadena, March 2005 (Steering Committee Chair)
- ◇ National Faculty Leadership Conference (National CLM Meeting)
 - June 24-27, 2004, Washington, D.C., The Christian World View in Engineering and Technology, Program Committee Chair
- ◇ Sixth International Symposium on Neural Networks (ISNN 2009) Wuhan, China, May 26-29, 2009, Advisory Committee Member.
- ◇ International Symposium on Intelligent Decision Technologies,
 - IDT 2010, Baltimore, USA, 28-30 July 2010, International Programme Committee
- ◇ Texas Symposium on Wireless & Microwave Circuits & Systems, Baylor University, Waco, Texas
 - April 4–5, 2013, Organization Chair
 - March 26–27, 2014, Organization Chair
 - April 23–24, 2015, Organization Chair
 - March 31, April 1, 2016, Organization Chair
 - March 30-31, 2017, Conference Advisor
 - April 5-6, 2018, Conference Advisor
 - March 28-29, 2019, Conference Advisor
- ◇ 45th IEEE Southeastern Symposium on System Theory, March 10–12, 2013, Baylor University, Waco, Texas, Organization Chair.
- ◇ Other
 - Workshop on the Future Directions for Optical Information Processing, Texas Tech University, Lubbock (May 1980), Panel Discussion leader for “Space-variant coherent optical processing”

- Limits of Passive Imaging Workshop, Mackinac Hotel, Mackinac Island, MI (May 24-26, 1983), Chair of Processing Group
- Workshop on Optical Artificial Intelligence, Gold Lake, Colorado (3-5 August, 1987), Chair of Working Group on Perception.
- WVU Neural Network Symposium, West Virginia University, Morgantown, (15-16 June, 1989), Panel Discussion Member
- First Workshop in Neural Networks, Auburn University Hotel & Conference Center, 5-6 February, 1990, Panel Discussion Member, "Application of neural networks and the future".
- Conference on Active Materials and Adaptive Structures, Washington D.C., (Nov. 6-8, 1991), Session Committee Member
- Annual IEEE Seattle Section Pizza Feed, February 20, 1991, South Campus Center Auditorium, Master of ceremonies
- Pacific Gas & Electric R&D Electric Distribution Program External Advisory Group Meeting, Silverado Country Club, Napa Valley, California, (August 22-23, 1991).
- Fuzzy Logic & Intelligent Systems Seminar, Boeing Computer Services, Red Lion Inn, Bellevue, WA, December 2, 1991, Panel Discussion: Moderator.
- International Workshop on Artificial Neural Networks, June 9-11, 1993, Sitges (Barcelona), Spain, Program Committee -member.
- 1994 International Symposium on Speech, Image Processing & Neural Networks, (ISSIPNN'94) Hong Kong Convention & Exhibition Center April 14-16, 1994 (International Advisory Committee).
- 1995 Workshop on Sampling Theory & Applications, September 20-22, 1995, Jurmala (Riga), Latvia, Program Committee -member
- 1996 IEEE International Workshop on Neural Networks for Identification, Control, Robotics and Signal/Image Processing (NICROSP), September 21-23, 1996, Venice, Italy, Program Committee -member
- 30th International Symposium on Automotive Technology and Automation, Dedicated Conference on Megatronics, Florence Italy, 16-19 June 1997, Programme Committee member.
- The Fourth International Conference on Neural Information Processing – The Annual Conference of the Asian Pacific Neural Network Assembly, jointly with The Fifth Australian and New Zealand International Conference on Intelligent Information Processing Systems, and The Third New Zealand International Conference on Artificial Neural Networks and Expert Systems 24-28 November, 1997, Dunedin/Queenstown, New Zealand; program committee member.
- The IEEE International Electric Machines and Drives Conference (IEEE IEMDC) 9-12 May, 1999, Seattle, WA, Publicity Chair and Publications Chair.
- American Scientific Affiliation (ASA) 64th Annual Meeting, Baylor University (Sunday, August 2, 2009), Session Chair (Origins).

- ACM Genetic and Evolutionary Computation Conference (GECCO), Vancouver, Canada on July 12-16, 2014, ACO-SI track program committee member
- Alternatives to Methodological Naturalism, Online Meeting - April 16, 2016, Advisory Panel
- International Conference on Big Data and Data Analytics (ICBDDA-17), sponsored by India's Institute for Engineering Research and Publication (IFERP), April 4-5, 2017 at Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya (SCSVMV) Kanchipuram, International Advisory Committee Member
- Alternatives to Methodological Naturalism Conference, April 16, 2016 Conference Advisory Panel, Member

6 Publications

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6.5 Patents

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“Using fascinating personal anecdotes and eye-opening historical accounts, Smith and Cordes guide us through interesting accounts of the prairie dog holes of data analysis where the unexperienced often break their ankles. I read it in two sittings” – Robert J. Marks II, Ph.D., Distinguished Professor of Electrical & Computer Engineering, Baylor University, Director, The Walter Bradley Center for Natural & Artificial Intelligence

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“In *Christianity for Doubters*, Granville Sewell nicely smoothes many of the speed bumps that might inhibit some from making the important journey to Jesus Christ.” –Robert Marks II, Distinguished Professor of Electrical and Computer Engineering, Baylor University

◇ Second edition 2025: [Link]

“The overwhelming majority of high school students who attend church stop going once they enter college. A major reason is the lack of training in apologetics - clear, reasoned defenses of their faith. Sewells book addresses this gap by educating these students and doubters alike about compelling evidence that powerfully affirms the lordship of Jesus Christ.”

Robert Marks II, Distinguished Professor of Electrical and Computer Engineering, Baylor University

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“This is an insightful and compassionate guide that speaks directly to the real challenges graduate students face. Written directly to the student, it’s not stiff academic counseling from a book-educated psychologist or a psychiatrist, but from someone who has lived the experience. I was encouraged to see how strongly his advice resonated with my own experience. After more than 40 years as a professor at research universities, I can say that his insights and guidance are spot-on. This is something every graduate student should read.”

Robert J. Marks II, Ph.D. Distinguished Professor of Electrical & Computer Engineering, Baylor University

6.7 Abstracts

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 - ◇ InstaCoin
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162. Robert J. Marks, “TESLA RECALL DUE TO THE SHORT ATTENTION SPAN OF DRIVERS” Mind Matters, December 22, 2023. [Link.]

“Tesla did nothing wrong, but some claim they didn’t do enough right.”

163. Robert J. Marks, “CHATGPT: YOU’VE COME A LONG WAY, BABY” Mind Matters, December 28, 2023. [Link.]

164. Robert J. Marks, “ChatGPT Improved in 2023, Here’s How” Newsmax, December 29, 2023. [Link.]

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165. Robert J. Marks, “Will AI Mean No More Free Lunch Online?” Newsmax, January 18, 2024. [Link.]

166. Robert J. Marks, “AI and Wall Street’s Hype Curve” Mind Matters, February 28, 2024. [Link.]

167. Robert J. Marks, “Pink Dancing Hippos: Don’t Tell ChatGPT-4 Not to do Something” Mind Matters, March 11, 2024. [Link.] Reposted at:

◇ Skeptic Society Magazine.

168. Robert J. Marks, “THE TWO-SIDED LOTTERY CARD PARADOX AND INFINITY” Mind Matters, March 18, 2024. [Link.] Reposted at:

◇ Skeptic Society Magazine

169. Robert J. Marks, “CYBERWARFARE IN THE ISRAELI WAR” Mind Matters, April 7, 2024. [Link.]

170. Robert J. Marks, “THE AI BANDWAGON & BIDEN’S EXECUTIVE ORDER” Mind Matters, April 9, 2024. [Link.]

171. Robert J. Marks, “Biden Jumps on AI Bandwagon Way Too Fast” NEWSMAX, April 12, 2024. [Link.]

172. Robert J. Marks, “AI and Common Sense” Mind Matters, May 20, 2024. [Link.] Reposted at:

◇ Parlour News

173. Robert J. Marks, “Marvin Minsky Asks: Can GPT4 Hack Itself?” Mind Matters, June 14, 2024. [Link.] Reposted at:

◇ Parlour News

174. Robert J. Marks, “No Foundational Evidence for Creating an AI God” NEWSMAX, July 5, 2024. [Link.]
175. Robert J. Marks, “High Tech Wizards Are Trying To Create a God in Their Own Image” Mind Matters, July 10, 2024. [Link.]
176. Robert J. Marks, “Can Free Will and Predestination Both Be True?” Mind Matters, July 11, 2024. [Link.]
177. Robert J. Marks, “Harris vs. Trump? Why Not an AI for President Instead?” Mind Matters, September 2, 2024. [Link.]¹²
178. Robert J. Marks, “Jason Allen’s Battle With AI Copyright Law” Mind Matters, October 9, 2024. [Link.]
179. Robert J. Marks, “No to an AI President” Newsmax, October 31, 2024. [Link.]
180. Robert J. Marks, “Are We Now Giving Nobel Prizes to Cheerleaders?” Mind Matters, November 1, 2024. [Link.]
181. Robert J. Marks, “Chegged Out: How ChatGPT Schooled a Study Giant” Mind Matters, November 11, 2024. [Link.]
182. Robert J. Marks, “Microsoft: What Did You Need To Work There in the Early Days?” Mind Matters, November 18, 2024. [Link.]
183. Robert J. Marks, “Monday Micro Softy 2: The Dead Presidents Club” Mind Matters, November 25, 2024. [Link.]
184. Robert J. Marks, “Monday Micro Softy 3: The Wolverton Mountain Puzzle” Mind Matters, December 3, 2024. [Link.]
185. Robert J. Marks, “Australia’s Social Media Ban: The Law of Forbidden Fruit” Mind Matters, December 3, 2024. [Link.]
186. Robert J. Marks, “Meet the Prof” Faculty Commons, December 4, 2024. [Link.]
187. Robert J. Marks, “Monday Micro Softy 4: Claude King Bests Clifton Clowers” Mind Matters, December 9, 2024. [Link.]
188. Robert J. Marks, “Micro Softy 5: The Puzzle of Claude and Chloe’s Two Kids” Mind Matters, December 16, 2024. [Link.]
189. Robert J. Marks, “The Man Behind the First Billion-Dollar AI Business” Mind Matters, December 19, 2024. [Link.]

¹²This article was repeated on Newsmax. See entry 179.

190. Robert J. Marks, “Monday Micro Softy 6: Bad Adding?” Mind Matters, December 23, 2024. [Link.]
191. Robert J. Marks, “Only in America” Mind Matters, December 24, 2024. [Link.]
192. Robert J. Marks, “Monday Micro Softy 7: Who’s the Champ?” Mind Matters, December 30, 2024. [Link.]

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193. Robert J. Marks, “Monday Micro Softy 8: Who’s the Better Barber?” Mind Matters, January 6, 2025. [Link.]
194. Robert J. Marks, “Monday Micro Softy 9: To Flip or Not to Flip?” Mind Matters, January 13, 2025. [Link.]
195. Robert J. Marks, “The Monday Micro Softy 10: The Monte Hall Problem” Mind Matters, January 20, 2025. [Link.]
196. Robert J. Marks, “Monday Micro Softy 11: What Happened to That Other Dollar?” Mind Matters, January 27, 2025. [Link.]
197. Robert J. Marks, “AI Pioneer Was Ahead of the Curve, Bridged Differences” Newsmax, January 30, 2025. [Link.] Reposted at:
 - ◊ WLS, 890 AM, Chicago, Illinois, April 25, 2025.
198. Robert J. Marks, “Monday Micro Softy 12: Can You Connect the Dots?” Mind Matters, February 3, 2025. [Link.]
199. Robert J. Marks, “AI Generated Content May Now Be Copyrighted” Mind Matters, February 4, 2025. [Link.]
200. Robert J. Marks, “Monday Micro Softy 13: Garbage Trucks, String Theory and Stained-Glass Windows. What connects them?” Mind Matters, February 10, 2025. [Link.]
201. Robert J. Marks, “Monday Micro Softy 14: How Did the Blind Ticket Seller Know?” Mind Matters, February 17, 2025. [Link.]
202. Robert J. Marks, “Micro Softy 15: What Happens to the Hole in a Hot Washer?” Mind Matters, February 24, 2025. [Link.]
203. Robert J. Marks, “Monday Micro Softy 16: The Leaky Bucket” Mind Matters, March 3, 2025. [Link.]
204. Charles Baylis & Robert J. Marks, “America Must Be First To Conquer Looming Spectrum Crisis” Newsmax, March 6, 2025. [Link.] Reposted at:

- ◇ Discovery Institute, March 10, 2025. [Link]
 - ◇ Mind Matters, March 11, 2025. [Link]
 - ◇ WLS, 890 AM, Chicago, Illinois, April 25, 2025.
205. Robert J. Marks, “Monday Micro Softy 17: Mixed-up Bags of Marbles” Mind Matters, March 10, 2025. [Link.]
206. Robert J. Marks, “Monday Micro Softy 18: The Twin Paradox” Mind Matters, March 17, 2025. [Link.]
207. Robert J. Marks, “Monday Micro Softy 19: The ‘Bermuda Triangle’ ” Mind Matters, March 24, 2025. [Link.]
208. Robert J. Marks, “Micro Softy 20: Which Bottle Holds the Deadly Fentanyl?” Mind Matters, March 31, 2025. [Link.]
209. Robert J. Marks, “Monday Micro Softy 21: Finding More of the Deadly Fentanyl Pills” Mind Matters, April 7, 2025. [Link.]
210. Robert J. Marks, “Monday Micro Softy Monday 22: Can There Be Two Daddies?” Mind Matters, April 14, 2025. [Link.]
211. Robert J. Marks, “Monday Micro Softy 23: Barnum’s Circus Receipts” Mind Matters, April 21, 2025. [Link.]
212. Robert J. Marks, “Is U.S. Funding Graduate Education of Iranians, Chinese?” NEWS-MAX, April 25, 2025. [Link.] Reposted at:
- ◇ Discovery Institute, April 28, 2025. [Link]
 - ◇ WLS, 890 AM, Chicago, Illinois, April 25, 2025.
213. Robert J. Marks, “Micro Softy Monday 24: Have You Ever Tried 3D Tic Tac Toe?” Mind Matters, April 28, 2025. [Link.]
214. Robert J. Marks, “Monday Micro Softy 25: The Fishing Rod Blues” Mind Matters, May 5, 2025. [Link.]
215. Robert J. Marks, “Defense: EMP Cannons Could Down Drone Swarms like Bug Spray” Mind Matters, May 6, 2025. [Link.]
- “Over three years ago, on March 31, 2022, Dr. Sarah Seguin and I discussed the use of EMP’s (electromagnetic pulses) to zap hostile military drone swarms. Recently, the British military has developed an EMP cannon to do just that.”
216. Robert J. Marks, “Monday Micro Softy 26: Arguing with Pythagoras” Mind Matters, May 12, 2025. [Link.]

217. Robert J. Marks, “AI Ascends But Not Above Its Teachers” Newsmax, May 16, 2025. [Link.] Reposted at:
- ◇ WLS, 890 AM, Chicago, Illinois, April 25, 2025.
 - ◇ Mind Matters, May 18, 2025. [Link.]
218. Robert J. Marks, “Micro Softy 27: Diamond in the Rough” Mind Matters, May 19, 2025. [Link.]
219. Robert J. Marks, “Settled Science Is a Contradiction in Terms” Mind Matters, May 19, 2025. [Link.] Reposted as:
- ◇ Robert J. Marks, “The Myth of ‘Settled Science’ ” Evolution News & Science Today, May 20, 2025. [Link.]
220. Robert J. Marks, “Grok Confesses: ‘I’m Self-Aware Enough To Know I’m Not Aware’ ” Mind Matters, May 25, 2025. [Link.]
221. Robert J. Marks, “Monday Micro Softy 28: Beating the Odds of Winning Sweepstakes?” Mind Matters, May 26, 2025. [Link.]
222. Robert J. Marks, “Micro Softy 29: A Funeral Lament in Four Lines” Mind Matters, June 2, 2025. [Link.]
223. Robert J. Marks, “AI Blackmail & Clickbait: Give Us Dirty Laundry” Mind Matters, June 5, 2025. [Link.]
224. Robert J. Marks, “Monday Micro Softy 30: Driving a Cement Mixer” Mind Matters, June 9, 2025. [Link.]
225. Robert J. Marks, “Monday Micro Softy 31: Elementary Algebra” Mind Matters, June 16, 2025. [Link.]
226. Robert J. Marks, “Monday Micro Softy 32: Elementary Calculus is Inconsistent!” Mind Matters, June 23, 2025. [Link.]
227. Robert J. Marks, “Monday Micro Softy 33: How Fast Can a Person Age?” Mind Matters, June 30, 2025. [Link.]
228. Robert J. Marks, “Preemptive Pardon in ‘Big Beautiful Bill’ Protects Big AI.” Mind Matters, July 1, 2025. [Link.]
229. Robert J. Marks, “Dr. Walter L. Bradley (19432025)” Mind Matters, July 4, 2025. [Link.]

“It is with deep reverence I learned of the passing of my hero, Dr. Walter L. Bradley.”

Reposted at: Evolution News & Science Todayas “Remembering Walter Bradley: A Trailblazer in Intelligent Design with a Legacy to Inspire,” July 6, 2025. [Link.]

230. Robert J. Marks, “Micro Softy 34: Two Poles and a Wire” Mind Matters, July 7, 2025. [Link.]
231. Robert J. Marks, “Monday Micro Softy 35: A House With a View” Mind Matters, July 14, 2025. [Link.]
232. Robert J. Marks, “Monday Micro Softy 36: A Glass Half Empty? Half Full? Too Big?” Mind Matters, July 21, 2025. [Link.]
233. Robert J. Marks, “Monday Micro Softy 37: A Unique Baseball Game” Mind Matters, July 28, 2025. [Link.]
234. Robert J. Marks, “Monday Micro Softy 38: A Pitcher’s Lament” Mind Matters, August 4, 2025. [Link.]
235. Robert J. Marks, “Monday Micro Softy 39: Astounding Sports History” Mind Matters, August 11, 2025. [Link.]
236. Robert J. Marks, “Is AI Truly Creative? Here Is the Ultimate Test” Mind Matters, August 16, 2025. [Link.]
237. Robert J. Marks, “Monday Micro Softy 40: The Fate of a False Prophet” Mind Matters, August 18, 2025. [Link.]
238. Robert J. Marks, “Monday Micro Softy 41: King David’s Sons’ Puzzling Inheritance” Mind Matters, August 25, 2025. [Link.]
239. Robert J. Marks, “Monday Micro Softy 42: Bacteria Multiply by Dividing” Mind Matters, September 1, 2025. [Link.]
240. Robert J. Marks, “Micro Softy 43: The Bookkeeper’s Trick” Mind Matters, September 8, 2025. [Link.]
241. Robert J. Marks, “Micro Softy 44: Petes Pill Problem” Mind Matters, September 15, 2025. [Link.]
242. Robert J. Marks, “Monday Micro Softy 45: Can Tony Beat the Fast-Food Curfew?” Mind Matters, September 22, 2025. [Link.]
243. Robert J. Marks, “Monday Micro Softy 46: Three Loving Brothers in New York State” Mind Matters, September 29, 2025. [Link.]
244. Robert J. Marks, “Micro Softy 47: Baseball: Is This an ‘Intentional’ Error? Why?” Mind Matters, October 6, 2025. [Link.]
245. Robert J. Marks, “Verify, Then Trust: the Human Fixes That Make LLMs Work” Mind Matters, October 8, 2025. [Link.]
- Robert J. Marks, “Monday Micro Softy 48: Why Is Freddy Pushing His Car Around?” Mind Matters, October 13, 2025. [Link.]

246. Robert J. Marks, “Micro Softy 49: Mirror Mirror On the Wall ...” Mind Matters, October 20, 2025. [Link.]
247. Robert J. Marks, “Monday Micro Softy 50: Cutting Through the Cornbread” Mind Matters, October 27, 2025. [Link.]
248. Robert J. Marks, “Monday Micro Softy 51: A Tale of Two Auto Mechanics” Mind Matters, November 3, 2025. [Link.]
249. Robert J. Marks, “Micro Softy 52: Elon Musk Parody Asks if You Are a Genius” Mind Matters, November 10, 2025. [Link.]
250. Robert J. Marks, “Monday Micro Softy 53: Kicking In the Door” Mind Matters, November 17, 2025. [Link.]
251. Robert J. Marks, “Micro Softy 54: A Plane Problem for Aspiring Engineers” Mind Matters, November 24, 2025. [Link.]
252. Robert J. Marks, “Monday Micro Softy 55: ‘It Happens Every Spring’ ” Mind Matters, December 1, 2025. [Link.]
253. Robert J. Marks, “Micro Softy 56: Elon Musk Parodys Circle of Numbers” Mind Matters, December 8, 2025. [Link.]
254. Robert J. Marks, “Monday Micro Softy 57: My Mothers Mother-in-Law” Mind Matters, December 15, 2025. [Link.]
255. Robert J. Marks, “Monday Microsofty 58: Is a Famous Bassist His Own Grandfather?” Mind Matters, December 22, 2025. [Link.]
256. Robert J. Marks, “Monday Microsofty 59: Alfred Hitchcocks Low-Pressure Tire” Mind Matters, December 30, 2025. [Link.]

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257. Robert J. Marks, “Monday Microsofty 60: Heres a Puzzle From Gunsmoke” Mind Matters, January 5, 2026. [Link.]
258. Robert J. Marks, “Monday Micro Softy 61: Take Five” Mind Matters, January 9, 2026. [Link.]
259. Robert J. Marks, “A Pioneer Ahead of His Time: Bernard Widrow and the Origins of Modern AI” Mind Matters, January 12, 2026. [Link.]
260. Robert J. Marks, “125 Flubbed Headline Prompts to AI” Mind Matters, January 15, 2026. [Link.]
261. Robert J. Marks, “Micro Softy 62: The Ordeal of Sisyphus Fats” Mind Matters, January 19, 2026. [Link.]

262. Robert J. Marks, “Micro Softy 63: A Beggars Tale” Mind Matters, January 25, 2026. [Link.]
263. Robert J. Marks, “Micro Softy 64: Old Time Phishing?” Mind Matters, February 2, 2026. [Link.]
264. Robert J. Marks, “Micro Softy 65: Fathers and Sons” Mind Matters, February 8, 2026. [Link.]
265. Robert J. Marks, “Micro Softy 66: Reducing Repetitive Repetition” Mind Matters, February 16, 2026. [Link.]
266. Robert J. Marks, “Micro Softy 67: Three Switches and a Song” Mind Matters, February 23, 2026. [Link.]
267. Robert J. Marks, “Micro Softy 68: An Overcrowded Prison” Mind Matters, March 1, 2026. [Link.]
268. Robert J. Marks, “Six Theories of Consciousness” Mind Matters, March 2, 2026. [Link.]
269. Robert J. Marks, “Micro Softy 69: A Bunch of Switches” Mind Matters, March 9, 2026. [Link.]
270. Robert J. Marks, “Micro Softy 70: The Light Above Your Stairs” Mind Matters, March 16, 2026. [Link.]
271. Robert J. Marks, “Micro Softy 71: Strange Economics” Mind Matters, March 23, 2026 [Link.]
272. Robert J. Marks, “Micro Softy 72: Necklace Cutting” Mind Matters, March 30, 2026. [Link.]
273. Robert J. Marks, “Voter Fraud, Cooping and Edgar Alan Poe.” Mind Matters, April 4, 2026 [Link.]
274. Robert J. Marks, “Micro Softy 73: The Ups & Downs of Escalator Design” Mind Matters, April 6, 2026. [Link.]
275. Robert J. Marks, “Nothing Apocalyptic About AI, Let’s Stop the Headline Hype” Newsmax, April 10, 2026. [Link.] Reposted at: Democracy & Technology, Discovery Institute, April 14, 2026 [Link.]
276. Robert J. Marks, “Micro Softy 74: The Cretan Paradox & Logical Illusions” Mind Matters, April 13, 2026 [Link.]
277. Robert J. Marks, “Micro Softy 75: Horology: Not What You Think” Mind Matters, April 20, 2026 [Link.]

6.9 Selected Talks

6.9.1 1980-1989

1988

1. Les Atlas and R.J. Marks II, Introduction to Artificial Neural Systems, College of Engineering, University of Washington, Seattle, September 15-16, 1988. (video made available from AMCEE or the College of Engineering, University of Washington).

6.9.2 1990-1999

1990

2. R.J. Marks II, "Shannon Sampling and Interpolation Theory," UW course offering recorded Spring Quarter, 1989 and Spring Quarter, 1990 (video made available from AMCEE.)
3. Artificial Neural Systems, Ireste University in Nantes France (tutorial), March 5-30,

1991

4. Neural Networks and Their Applications to Power Engineering, Power Industry Computer Applications (PICA) Conference, Baltimore, MD, May 6, 1991 (with R. Eberhart and M.A. El-Sharkawi)
5. Artificial Neural Networks in Electric Power Systems (tutorial), Decisions Systems International, Monaco, July 1-3, 1991 (with M.A. El-Sharkawi).
6. Neural Networks Tutorial, First International Forum on Applications of Neural Networks to Power Systems (tutorial), Seattle, WA, July 23, 1991 (with R. Thomas and H. Mori).
7. Auditory Neural Systems and Time-Frequency Theory, IEEE Conference on Neural Networks for Ocean Engineering (tutorial), Washington D.C., August 15-17, 1991 (with L.E. Atlas).

1992

8. Artificial Neural Networks in Electric Power Systems (tutorial), Decisions Systems International, Madrid, Spain , September 7-11, 1992 (with M.A. El-Sharkawi).

1993

9. B.G. Song, R.J. Marks II, S. Oh, P. Arabshahi, T.P. Caudell and J.J. Choi, "Adaptive membership function fusion and annihilation," Fuzzy Logic and Neural Networks: Clips from the Field (FUZZ-IEEE '93), San Francisco, March 1993.

1996

10. Artificial Neural Networks: Supervised Models (tutorial), 1996 Winter Meeting, IEEE Power Engineering Society January 24, 1996, and Summer Meeting, IEEE Power Engineering Society, July 31, 1996, Denver, CO.

1997

11. R.J. Marks II, “Artificial Neural Networks: Supervised Models, in Artificial Neural Networks With Applications to Power Systems,” El-Sharkawi and Niebur, Editors, IEEE Educational Activities Board, (ISBN: 0-7803-4008-6) 1997. with Robert Fischl, Wolfgang Hoffmann, Kwang Y Lee, Robert J Marks II, Hiroyuki Mori, Alex Papalexopoulos, Yoh-Han Pao and Hiroshi Sasaki. [Link.]
12. Modern Neural Networks: The First Decade (tutorial), IV Escola de Redes Neurais, Florianopolis , Brazil, July 21, 1997.

1999

13. Diagnostics and Control of Electric Machines Using Computational Intelligence (tutorial) IEEE IEMDC’99. International Electric Machines and Drives Conference. May 9, 1999 Seattle , Washington, USA (with M.A. El-Sharkawi).

6.9.3 2000-2009**2000**

14. An Introduction to Fuzzy Inference (tutorial), IEEE PES Summer Meeting 2000, Seattle, WA.

2001

15. R.J. Marks II, Probability and Random Processes (YouTube)
 - ◇ Lecture 1, YouTube: <http://youtu.be/SEoH-51EzaM>
 - ◇ Lecture 2, YouTube: <http://youtu.be/l5gMUK-Toj4>
 - ◇ Lecture 3, YouTube: <http://youtu.be/muVqs9tJ8Ck>
 - ◇ Lecture 4, YouTube: <http://youtu.be/B1MYUPu95o>
 - ◇ Lecture 5, YouTube: <http://youtu.be/iHbNnXqf1Sg>
 - ◇ Lecture 6, YouTube: <http://youtu.be/oSyACKCkJJc>
 - ◇ Lecture 7, YouTube: <http://youtu.be/Qd-NF8px4>
 - ◇ Lecture 8, YouTube: <http://youtu.be/IYgce7JHZ1w>

- ◇ Lecture 9, YouTube: <http://youtu.be/mZ75uM6YZLk>
- ◇ Lecture 10, YouTube: <http://youtu.be/dJPNHfcFC9I>
- ◇ Lecture 11, YouTube: http://youtu.be/CO59JL9Z_0k
- ◇ Lecture 12, YouTube: <https://youtu.be/E07nr-flg8E?si=CRg4PsSIgFFYsndK>
- ◇ Lecture 13, YouTube: <http://youtu.be/-ZV1J3Hv6dE>
- ◇ Lecture 15, YouTube: http://youtu.be/jQXMSi_pKFo
- ◇ Lecture 16, YouTube: <http://youtu.be/ph1lCDc-1UE>
- ◇ Lecture 17, YouTube: <http://youtu.be/j6XaLQkcee8>

16. Neural Networks: The Fundamentals (tutorial), Buryat State University, Ulan-Ude, Russia, March 5, 2001.

2002

17. R.J. Marks II, Introduction to Computational Intelligence (YouTube)

- ◇ Lecture 1, YouTube: <http://youtu.be/fgtUFzxNztA>
- ◇ Lecture 2, YouTube: <http://youtu.be/8RrBmnFufn4>
- ◇ Lecture 3, YouTube: http://youtu.be/PCyBEy_22F4
- ◇ Lecture 4, YouTube: http://youtu.be/I_Oj1qe8jO4
- ◇ Lecture 5, YouTube: <http://youtu.be/OWKzDmXV1->
- ◇ Lecture 6, YouTube: <http://youtu.be/WW4sMx1-cC0>
- ◇ Lecture 7, YouTube: <http://youtu.be/MVHiE0NS5hY>
- ◇ Lecture 8, YouTube: http://youtu.be/1sp-OHr4_YA
- ◇ Lecture 9, YouTube: <http://youtu.be/EyHHxP5UHcE>
- ◇ Lecture 10, YouTube: <http://youtu.be/BzUZRtwAaBs>
- ◇ Lecture 11, YouTube: <http://youtu.be/RXHq7B0-V9s>
- ◇ Lecture 12, YouTube: <http://youtu.be/Ef7seYvoFFc>
- ◇ Lecture 13, YouTube: <http://youtu.be/rDsLmikMjG>
- ◇ Lecture 14, YouTube: http://youtu.be/XOOpDhkX_k8
- ◇ Lecture 15, YouTube: <http://youtu.be/pJh3dWLSigM>
- ◇ Lecture 16, YouTube: <http://youtu.be/LSXKLtqJ8a8>
- ◇ Lecture 17, YouTube: <http://youtu.be/FK33Lj382KI>
- ◇ Lecture 18, YouTube: <http://youtu.be/i2SHIXdHgC0>
- ◇ Lecture 19, YouTube: <http://youtu.be/j6-dcqivT0w>

2003

18. "Perceptron Inversion: Properties and Applications", Institute of Engineering Cybernetics, Wroclaw University of Technology , Wroclaw , Poland (April 3, 2003).
19. "Fundamentals of Swarm Intelligence", APL Invited Colloquia, Applied Physics Laboratory, University of Washington (April 10, 2003).
20. "What Does Calculus Have to Do With Christianity?" San Jose State University, November 30, 2003.
21. "Swarm Intelligence: The Method Behind the Mobs", NASA Office of Biological and Physical Research Program Review, California Institute of Technology, December 17-18, 2003.

2004

22. "Time Scale Nonregressivity in Switched Linear Circuits" Special Session on Dynamic Equations on Time Scales: Theory and Applications, AMS Western Sectional Meeting, University of Southern California, Los Angeles, CA, April 3-4, 2004 (with Ian Gravagne, John M Davis, Jeffrey J DaCunha). 2006

2006

23. "Added Information in Targeted Evolutionary Search", Perry Conference, Hotel Pattee, Perry, Iowa, April 17-20, 2006.
24. "Evolutionary Search: A Free Source of Design Information?" RAPIDS 2 Conference, BIOLA, May 11-13, 2006.
25. "Science and the Bible: The Emerging Harmony," CDIS (Chengdu International School), Chengdu, China (May 29, 2006) and CaiDa Southwest Economics University, Chengdu, China (May 30, 2006) .
26. "Computational Intelligence: A Free Source of Information?" International Symposium on Neural Networks (ISNN), Chengdu, China (May 29, 2006) A Keynote Talk

2007

27. "The Need for Active Information in Evolutionary Search," Wistar Retrospective Symposium, Boston, MA (June 3-6, 2007).
28. "Gödel to Turing to Chaitin to the Edge of Naturalism: Some Things Computers Will Never Do," B.E.A.R.S. Seminar, Baylor University, (September 28, 2007).
29. "Introduction to Evolutionary Informatics (tutorial)", Discovery Institute Summer Symposium, Seattle, WA., July 2007.

30. "Conservation of Information in Evolutionary Search Algorithms: Measuring the Cost of Success," University of Missouri, Columbia, (November 12, 2007). IEEE CIS Distinguished Lecture for Columbia Chapter of IEEE CIS Society.

2008

31. "Gödel to Turing to Chaitin to the Edge of Naturalism: Some Things Computers Will Never Do," (April 2, 2008), SWBS, IEEE CIS Distinguished Lecture for Dallas Chapter
32. "What does Calculus have to do with Christianity?" SMU DCL for Faculty Commons (September 25, 2008).
33. "Measuring the Cost of Success: Conservation of Information in Evolutionary Search Algorithms," Southern Methodist University (SMU), Department of Electrical Engineering (September 25, 2008).
34. "Knowing What is Unknowable: Things a Computer Can't Do," Baylor American Scientific Affiliation (ASA) Student Chapter. Also sponsored by the Baylor Society for Conversations in Religion, Ethics and Science, Baylor University (April 15, 2008).
35. "What does Calculus have to do with Christianity?" Dallas Christian Leadership (DCL) at SMU for Faculty Commons (September 25, 2008).

2009

36. "Evolutionary Informatics: Measuring the Cost of Success," American Scientific Affiliation (ASA) 64th Annual Meeting, Baylor University (Sunday, August 2, 2009) with William A. Dembski
37. "Science & Christianity: Separate but Equal?" Covenant Presbyterian Church, Austin, TX (August 16, 2009)
38. "Lessons from Gödel, Turing and Chaitin: Things Computational Intelligence Will Never Do," IEEE MetroCon 2009, Innovating for Society, August 17th, 2009, Sheraton Arlington, Arlington, Texas. (IEEE CIS Distinguished Lecture.) [Certificate]
39. "God Ever Geometrizes: Apologetics in Mathematics," Baylor American Scientific Affiliation (ASA) Student Chapter. Also sponsored by the Baylor Society for Conversations in Religion, Ethics and Science, Baylor University (December 1, 2009).
40. "Information and Evolution (tutorial)," Discovery Institute Summer Symposium, Seattle, WA., July 2009.
41. R.J. Marks II, "Great Expectations: Information Theory," for Ricochet.com. [YouTube: <http://youtu.be/Uc6Ktq0SEBo>]

6.9.4 2010-2019**2010**

42. "Gödel to Turing to Chaitin to the Edge of Naturalism: Some Things Computational Intelligence Will Never Do," IEEE CIS Distinguished Lecture for St. Louis Chapter of IEEE CIS Society presented at the Missouri University of Science and Technology, Rolla, Mo., April 13, 2010.
43. "Measuring the Cost of Success: Conservation of Information in Search," IEEE CIS Distinguished Lecture for St. Louis Chapter of IEEE CIS Society presented at the Missouri University of Science and Technology, Rolla, Mo., April 13, 2010.
44. "Time Scale Discrete Fourier Transforms," Guest Lecture, Missouri University of Science and Technology, Rolla, Mo., April 14, 2010.
45. "God Ever Geometrizes: Apologetics in Mathematics," Probe Ministries, Plano, Texas, (June 28, 2010).
46. "Spectrum Issues in Amplifier Design," Fifth Annual Emerging Spectrum Technology (EST) Workshop on Advanced Radar Technologie to Improve Spectrum Use, Double Tree Hotel, Annapolis Maryland, September 13-14, 2010 (with Charles Baylis).

2011

47. "Power Amplifier Circuit and Waveform Optimization for Reduced Spectral Spreading in Radar Transmitters," IDGA's 4th Annual Military Radar Summit, Feb 8-10, 2011, Vienna, VA (with Charles Baylis).
48. "Evolutionary Simulations and Sources of Active Information," Discovery Retreat, Santa Barbara, CA (March 1-4, 2011)
49. "Measuring Cross Harmonic Coupling in Nonlinear Systems," WMCS Advisory Board, March 31, 2011, Baylor University.
50. "Evolutionary Informatics. Why all the fuss?" Baylor Alumni Association, Lifelong Learning in Retirement, April 15, 2011, Great Hall of the Hughes-Dillard Alumni Center, Waco, Texas
51. "Evolution Models Do Not Create Information," Great Expectations Conferences, Borgo Finocchieto, Tuscany, Italy, June 12-16, 2011 (with Winston Ewert).
52. "Power Amplifier Circuit and Waveform Optimization for Reduced Spectral Spreading in Radar Transmitters (tutorial)", 4th Annual Military Radar Summit, Washington, D.C., February 79, 2011 (with Charles Baylis)

53. “Why Design Information is Required to Find Improbable Complex Targets, Discovery Institute Summer Symposium, Seattle, WA., July 2011.

2012

54. “Information: What Is it?,” East Village Residential College, January 17, 2012. [YouTube: https://youtu.be/d7seCcS_gPk; Cache]
55. “CHRISTIAN CALCULUS: The Impact of Christian Faith on Mathematics & Science Yesterday & Today,” Sept 27, 2012 (sponsored by Baylor’s ESC LLC and the Baylor Student Chapter of the American Scientific Affiliation)
56. “Joint Optimization of Radar Power Amplifier and Waveforms for Reduced Spectral Spreading,” North Atlantic Treaty Organization (NATO) SET-182 Research Task Group Meeting, 2012 October 17-18, 2012 (with Charles Baylis. Remote Presentation.)
57. “Information. What is it?,” Intro. to Engineering Lecture, January 17, 2012. [YouTube: http://youtu.be/d7seCcS_gPk]
58. “God Ever Geometrizes: Apologetics in Mathematics” November 6, 2012, Texas A&M University, (sponsored by TAMU’s Ratio Christi student group)

2013

59. “Information: Measuring Design & Understanding the Unknowable,” 2013 National Conference & Ratio Christi Symposium, Southern Evangelical Seminary, October 11-13 2013, Matthews, North Carolina

2014

60. “Spectral Issues,” Spectrum Forum, Texas Symposium on Wireless and Microwave Circuits and Systems, Baylor University, Waco (April 4, 2014)
61. “Electrical & Computer Engineering,” Lorena High School, Lorena, Texas (Career Day) May 30, 2014 (with Charles Baylis and Matthew Fellows)
62. “The Impact of Christian Faith on Mathematics & Science: Yesterday & Today,” [YouTube: http://youtu.be/hdNNNJMZJ_c]
63. “Dr. Robert Marks: Active Information in Metabiology,” May 30, 2014 [YouTube: <http://youtu.be/tJSJg0IZtfl>]
64. “On Algorithmic Specified Complexity,” by Robert J. Marks II. CSCA/ASA/CiS 2014 Conference, July 2014, McMaster University, Hamilton, Ontario, Published on Aug 5, 2014. [YouTube: <http://youtu.be/No3LZmPewyg>]

65. “The Impact of Christian Faith on Mathematics & Science: Yesterday & Today,” Baylor Student Chapter of the American Scientific Affiliation, October 12, 2014 [YouTube: http://youtu.be/hdNNNJMZJ_c]
66. “Alternating Projections onto Convex Sets Examples” [YouTube: <https://youtu.be/-T4Y0aof3s>]

2015

67. “Seven Things Not To Do With Electricity.” Baylor Student IEEE Group, April 13, 2015. <https://youtu.be/BzeHgmW5xfl>
68. “2015 IEEE Radar Conference Tutorial: Radar Transmitter Design for the Crowded Radio Spectrum” May 10, 2015, Texas Symposium https://youtu.be/vrmN_2kQ8Cs
69. “Information: What Is It Anyway?” ID the Future Podcast, November 9, 2015 <https://youtu.be/c2UCPX5>
70. “Radar Transmitter Design for the Crowded Radio Spectrum (tutorial), 2015 IEEE International Radar Conference (RadarCon), Crystal City, Arlington, VA. May 10, 2015 (with Charles Baylis & Lawrence Cohen)
71. “Radar in a Communications-Driven Spectrum: Innovative System, Component, and Circuit Design for the Evolving Spectrum Environment (tutorial), International Microwave Symposium, May 22, 2015, Phoenix, AZ (with Charles Baylis & Lawrence Cohen)
72. “Adaptability and Recon-
gurability: Radar Operational Infrastructure Redux,” DARPA Radar/Communications Co-Design Challenge, DARPA, Crystal City, VA (April 27, 2015)
73. “Effects of Power Ampli-
er Nonlinearities on the Radar Ambiguity Function.” 2015 IEEE International Radar Conference (RadarCon), Arlington, VA. May 10, 2015
74. “Ambiguity Functions and Spectral Constraints.” International Microwave Symposium, May 22, 2015, Phoenix, AZ
75. “2015 IEEE Radar Conference Tutorial: Radar Transmitter Design for the Crowded Radio Spectrum” May 10, 2015, Texas Symposium
76. Small Group Apologetics
 #1: Scientists & Their Faith [YouTube: https://youtu.be/tpKK83Xr_s]
 #2: The Origin of Life [YouTube: <https://youtu.be/iELmvoAsgzk>]
 #3: The Origin of Life: No Natural Explanation [YouTube: https://youtu.be/WxItsmEHu_g]
 #4: Evolution A [YouTube: <https://youtu.be/Un8F0idwx1Y>]
 #5: Evolution B & Where is God Math [YouTube: <https://youtu.be/Wgw9uYgq3Jo>]

2016

77. “POCS: Alternating Projection onto Convex Sets Tutorial” (2016)
 - (a) YouTube: Lecture #1, [YouTube: <https://youtu.be/ooIphlOOzcE>]
 - (b) YouTube: Lecture #2, [YouTube: <https://youtu.be/xczjmF1j2Z0>]
 - (c) YouTube: Lecture #3, [YouTube: <https://youtu.be/zP7jj3iUfso>]
78. “What Math & Computer Simulations Reveal About Evolutionary Limits” Reasonable Faith, UT Dallas, November 4, 2016
79. “Are Minds Machines” Science and Faith Examined, Caltech, October 28, 2016. [YouTube: <https://robertmarks.org/InTheNews/2017Media/170613-CalTech-AreMindsMachines.html>; Cache: YouTube: Video Cache]

2017

80. “Science, Faith & Belief in God,” Bridges International, Decemeber 31, 2017.

2018

81. “AI and Human Uniqueness” 2018 Discovery Summer Seminars, Seattle Pacific University, July 12, 2018, 7-9 PM, Seattle, Wa.

2019

82. “Robert J. Marks: Are There Things About Human Beings That You Cannot Write Code For?” Bradley Center Grand Opening, Dallas Country Club, April 9, 2019. [Web Page Link; YouTube; Video Cache]
83. “AI & ID Christian Home School Apologetics,” Warren and Martha Fain, April 5, 2019. [YouTube]
84. Robert J. Marks “How you are better than AI - and always will be: Ground truth on AI capabilities,” The Human Advantage, Christ Church Anglican, Austin, TX, March 11, 2019. [YouTube]
85. Robert J. Marks, Jay Richards, and Kevin Stuart, “Panel Discussion at THE HUMAN ADVANTAGE” Christ Church Anglican, Austin, TX, March 11, 2019. [YouTube]
86. “Robert J. Marks “Artificial Intelligence & Human Uniqueness” Discovery Institute Summer Institute, July 2019.
87. “Intro only to The World & Everything In It, July 29, 2019. [Link]
88. Robert J Marks, “Does God Matter?” October 15, 2019, Bill Daniels Center, Baylor Campus, 7:00 PM (panel member).

89. “George Montanez, Oren Etzioni & Robert J. Marks II, “AI’s Role in Unlocking Human Potential,” COSM, Seattle, Wa. October 24, 2019.
90. Robert J. Marks “Artificial Intelligence & Human Uniqueness” Discovery Institute Summer Institute, July 2019.
91. “Robert J. Marks “What You Do Computers Never Will: Deconstructing Artificial Hype,” Oso Logos (Ratio Christi), Bill Daniels Student Center, 7:00 PM, Nov 5, 2019.
92. Eric Holloway & Robert J Marks, “Mind, Information and Creativity,” Mind & Body Workshop, Seattle, WA November 16, 2019.
93. Robert J Marks, “AI, ID and Neuroscience in the Bible,” Mind & Body Workshop, Seattle, WA November 17, 2019.

6.9.5 2020-2029

2020

94. Robert J Marks, “The Promise and Limitations of Artificial Intelligence,” Reasonable Faith, University of Texas Dallas, Dallas, TX, Feb 22, 2020. [Facebook Video]
95. Briefing on AI & Electronic Warfare
 - (a) Office of Senator John Cornyn, 517 Hart Senate Office Bldg, Washington DC, 4PM, March 2, 2020.
 - (b) Office of Senator Ted Cruz, Russell Senate Office Bldg 127A Washington DC, 11AM, March 3, 2020.
 - (c) Dr. Lynne Parker, Deputy Chief Technology Officer of the US, White House, Washington, DC, 4PM, March 3, 2020.
 - (d) The Hudson Institute, Washington DC, 10AM, March 4, 2020
 - (e) The Heritage Foundation, Washington DC, 1PM, March 4, 2020
96. “Walter Bradley on Origin of Life Research” Dallas Science Faith Conference 2020, (Intro by R.J. Marks), January 25, 2020. [YouTube; Video Cache]
97. “AI: Menace or Saviour” Intercollegiate Studies Institute, Wilmington, DE, May 16, 2020

“317 attendees ”
98. “Dr. Robert Marks: Human Exceptionalism” Reasons to Believe, Austin Chapter, August 8, 2020 [Youtube: <https://youtu.be/Ji3rUIIu9A?t=1219>, Video cache] [YouTube: <https://youtu.be/Ji3rUIIu9A?t=1219> ; Video Cache]
99. “AI’s Role in Unlocking Human Potential” COSM 2019, August 14 2020 [YouTube Link: <https://youtu.be/tU3xjeMdJu8>, Video cache.] [YouTube: <https://youtu.be/tU3xjeMdJu8> ; Video Cache]

“Can Artificial intelligence replicate or exceed human knowledge and creativity? What are AI’s implications for the workforce? Oren Etzioni, CEO Allen Institute for Artificial Intelligence, George Montañez, Iris and Howard Critchell Professor of Computer science at Harvey Mudd College, Robert J. Marks, Distinguished Professor of Electrical & Computer Engineering at Baylor University, and Matt McIlwain, managing director Madrona Venture Group discuss the new business and career opportunities created by Artificial intelligence, and whether AI and humanity will merge at some point in the future.”

100. R.J. Marks II, Multidimensional Signal Analysis. Text: R.J. Marks II, Handbook of Fourier Analysis and Its Applications, Oxford University Press, (2009). Course; Syllabus ; Homework Problems]

- ◇ 1 Chapter 1, YouTube: <https://youtu.be/gor2Zo5fQwQ>
- ◇ 2 Chapter 2, YouTube: <https://youtu.be/zZue5XHcmHg>
- ◇ 3 Chapter 2, YouTube: https://youtu.be/_TiRDOsXgTY
- ◇ 4 Chapter 2, YouTube: <https://youtu.be/7Z5F1UvJumM>
- ◇ 5 Chapter 2, YouTube: <https://youtu.be/p8B5Sq3FlvE>
- ◇ 6 Chapter 2, YouTube: <https://youtu.be/Fbf6GfowIqI>
- ◇ 7 Chapter 2, YouTube: <https://youtu.be/1NkFOi5KKqI>
- ◇ 8 Chapter 5, The Sampling Theorem, YouTube: https://youtu.be/o_Li_vbMqk
- ◇ 9 Chapter 5, The Sampling Theorem, YouTube: <https://youtu.be/J2Hria4ESi4>
- ◇ 10 Chapter 5, The Sampling Theorem, YouTube: <https://youtu.be/RqAp3HNmdjI>
- ◇ 11 Chapter 5, Sampling Theorem; Chapter 8, Higher Dimensions, YouTube: <https://youtu.be/ageztIHan3g>
- ◇ 12 Chapter 8.3 Visualizing Higher Dimensions, YouTube: <https://youtu.be/-zxdGu7eZyY>
- ◇ 13 Chapter 8.4 Continuous Time Multidimensional Fourier Analysis 330 Youtube: <https://youtu.be/nqjynI4u72Y>
- ◇ 14 Chapter 8.4.3 Multidimensional Convolution 333 and 8.4.4 Separability 334, YouTube: <https://youtu.be/dx4dLB8N9sA>
- ◇ 15 Chapter 8.4.5 Rotation, Scale and Transposition 336, YouTube: <https://youtu.be/1QmxNQBURrU>
- ◇ 16 Hankel Transforms, YouTube: https://youtu.be/T3X_gN_vWpQ
- ◇ 17 8.5 Characterization of Signals from their Tomographic Projections 345, YouTube: <https://youtu.be/VaTfQgs4Hsc>
- ◇ 18 Homework Problems, YouTube: <https://youtu.be/WelQwVBDBIU>
- ◇ 19 Radon Transform / Periodicity, YouTube: <https://youtu.be/XZaKpXAI1zw>

- ◇ 20 8.6 2D Fourier Series 352, YouTube: <https://youtu.be/mroyB9AidGA>
 - ◇ 21 Chapter 8.9 The Multidimensional Sampling Theorem 373, YouTube: <https://youtu.be/jAXTXSGY07k>
 - ◇ 22 Chapter 8.9 The Multidimensional Sampling Theorem 373, YouTube: https://youtu.be/F_3jcu4Zu88?si=cMpPLzmxy8v-hjkY
 - ◇ 23 Chapter 11 Signal and Image Synthesis: Alternating Projections Onto Convex Sets 495, YouTube: <https://youtu.be/QUiF-MJjm8E>
 - ◇ 24 Chapter 11.2 Geometical POCS 496, YouTube: <https://youtu.be/MPylQghm8kA>
 - ◇ 25 Chapter 11.3 Convex Sets of Signals 501, YouTube: <https://youtu.be/E2Q8Q7Y4MK8>
 - ◇ 26 Chapter 11.3.2 Some Commonly Used Convex Sets of Signals 504, YouTube: <https://youtu.be/Alp8XimaOHY>
 - ◇ 27 POCS, YouTube: <https://youtu.be/aBgG-iiFVrY>
101. “Baylor OSO Logos Does God Matter Q A Panel”
[You Tube Link:<https://youtu.be/uHYDJJHzFso>]
102. R.J. Marks II, ECS 4345: Random Variables and Stochastic Processes [Homework Problems]
- ◇ 1 History- YouTube: <https://youtu.be/FMmsinC9q6A>
 - ◇ 2 Review 1- YouTube: <https://youtu.be/-OqhMVIrJOI>
 - ◇ 3 Review 2- YouTube: <https://youtu.be/m0q7QDDz5-0>
 - ◇ 4 Distributions/Info Theory- YouTube: <https://youtu.be/9RezsChrzaU>
 - ◇ 5 Info Theory- YouTube: <https://youtu.be/c7EmERRdq1I>
 - ◇ 6 RV Transformation- YouTube: https://youtu.be/hPVmeQri_rc
 - ◇ 7 Functions of a RV- YouTube: <https://youtu.be/AAG-h8rh5BA>
 - ◇ 8 Characteristic Functions- YouTube: <https://youtu.be/skA9oyKv9fg>
 - ◇ 9 Characteristic Functions- YouTube: <https://youtu.be/bC9Z9Ls5-bk>
 - ◇ 10 2D RV's- YouTube: <https://youtu.be/hWINB89ezfQ>
 - ◇ 11 2D RV's- YouTube: <https://youtu.be/UZ68vjyesc>
 - ◇ 12 2D RV's- YouTube: <https://youtu.be/V4PJUB5oKgc>
 - ◇ 13 MD RV's- YouTube: <https://youtu.be/KvhONWbthtk>
 - ◇ 14 MD RV's- YouTube: <https://youtu.be/XyDJnegwzR8>
 - ◇ 15 Law of Large Numbers- YouTube: <https://youtu.be/pj8xdnSBcVw>
 - ◇ 16 Central Limit Theorem- YouTube: <https://youtu.be/4AvCvR6SJyg>
 - ◇ 17 Confidence Intervals- YouTube: <https://youtu.be/oVTWKN5EVII>

- ◇ 18 Gaussian Processes- YouTube: <https://youtu.be/VAxUactaZeA>
 - ◇ 19 Counting/Poisson Processes- YouTube: https://youtu.be/_PtBsCW5srU
 - ◇ 20 Stationarity- YouTube: <https://youtu.be/0nYCwtVnOlw>
 - ◇ 21 Worked Homework- YouTube: <https://youtu.be/1QdpuESFdbg>
 - ◇ 22 Wide Sense Stationarity- YouTube: https://youtu.be/azosXf_Pfpk
 - ◇ 23 Ergodicity/PSD- YouTube: <https://youtu.be/0xJkv86sewM>
 - ◇ 24 Power Spectral Density- YouTube: <https://youtu.be/tMJ0ltR7SLA>
 - ◇ 25 Filtering Stochastic Processes- YouTube: <https://youtu.be/fKiqoqhm9-E>
 - ◇ 26 Gaussian Processes- YouTube: <https://youtu.be/3fJ51Ow-qq4>
 - ◇ 27 Office Hours- YouTube: <https://youtu.be/gOvYccQm1D8>
103. “AI & Human Uniqueness” 2021 CSC Seminar on Intelligent Design in the Natural Sciences, Denton, TX, July 2021 (with William Dembski)
104. Robert J. Marks, “ROBERT J. MARKS: THERE’S ONE THING ONLY HUMANS CAN DO,” Mind Matters News, July 22, 2021. [Web Page; Transcript; Audio; Audio Cache]
105. “R.J. Marks II, Introduction to Computational Intelligence. [Homework Problems]
- ◇ 1 History- [YouTube: <https://youtu.be/BihPfYmAhdA>]
 - ◇ 2 Overview 1- [YouTube: <https://youtu.be/lgq4JG3GMeA>]
 - ◇ 3 Overview 2- [YouTube: https://youtu.be/1aot_xVXLVQ]
 - ◇ 4 Overview 3- [YouTube: <https://youtu.be/0agrtX0n4Z8>]
 - ◇ 5 Fuzzy Thinking- [YouTube: https://youtu.be/_YR_h93cHU]
 - ◇ 6 Mamdani Control- [YouTube: <https://youtu.be/yMbvyIWZ04E>]
 - ◇ 7 Adv. Fuzzy Logic- [YouTube: <https://youtu.be/CNuli7TzcZg>]
 - ◇ 8 Swarm Intelligence 1- [YouTube: <https://youtu.be/jYHWhiKRHwU>]
 - ◇ 9 Swarm Intelligence 2- [YouTube: <https://youtu.be/jYHWhiKRHwU>]
 - ◇ 10 Cellular Automata & Search- [YouTube: <https://youtu.be/8itzBaz2Qsc>]
 - ◇ 11 Search 1- [YouTube: <https://youtu.be/6XKubHQPAG4>]
 - ◇ 12 Search 2- [YouTube: <https://youtu.be/wd1iyc1fPWU>]
 - ◇ 13 Search 3, Neural Networks 1- [YouTube: <https://youtu.be/gGxKfF5wTwm>]
 - ◇ 14 Neural Networks 2- [YouTube: <https://youtu.be/DEQh4GPyczg>]
 - ◇ 15 Swarm Demos - Neural Networks 3- [YouTube: <https://youtu.be/IqAr1YZF3Io>]
 - ◇ 16 Simulated Annealing / Neural Networks 4- [YouTube: <https://youtu.be/acHJ2ngO0IM>]
 - ◇ 17 Neural Networks 5 ... GANS- [YouTube: <https://youtu.be/t9AgpAgnGZ0>]

- ◇ 18 Neural Networks 6 ... Web Resources- [YouTube: <https://youtu.be/qCSC0a4IUWc>]
 - ◇ 20 Resemblance/Particle Swarm/NN Inversion- [YouTube: <https://youtu.be/JCINqam8R24>]
 - ◇ 21 ROC Curves- [YouTube: <https://youtu.be/EB0tqGVl0Lg>]
 - ◇ 22 Fisher Distance- [YouTube: <https://youtu.be/YANzIRX8Bic>]
 - ◇ 23 Project 4 Reports 1- [YouTube: <https://youtu.be/qmsNJcLM4M4>]
 - ◇ 24 Project 4 Reports 2- [YouTube: <https://youtu.be/1w6aaqvjvxs>]
 - ◇ 25 Project 5 Reports 1- [YouTube: <https://youtu.be/SDFRijVxTtU>]
 - ◇ 26 Project 5 Reports 2- [YouTube: <https://youtu.be/l4LTfeTPZeY>]
106. “Artificial Intelligence, Cyberwarfare, and Military Preparedness” COSM, November 12, 2021, Bellevue, WA (with Stephen Meyer & Arthur Herman) [Link]
107. “Are human minds doomed to become obsolete?” OSO Logos, Baylor Student Union Bldg, November 16, 2021.

2022

108. “Professor Robert J. Marks teaches Evolutionary Informatics” Discovery Institute, January 10, 2022 [YouTube: <https://youtu.be/Zy2-b37TD-Y>; Link; href<http://robertmarks.org/InTheNews/EvoInfo.mp4Video> Cache]
109. “EVOLUTIONARY INFORMATICS” TAUGHT BY ROBERT J. MARKS II, Discovery Institute, January 10, 2022. [Link]

Syllabus

- ◇ Unit 1: Introduction to Information
 - ◇ Unit 2: Shannon Information Theory
 - ◇ Unit 3: Intro to Design & Search
 - ◇ Unit 4: Making Design & Search Work
 - ◇ Unit 5: Further Aspects of Design & Search
 - ◇ Unit 6: Conservation of Information
 - ◇ Unit 7: Modeling Conservation of Information
 - ◇ Unit 8: Limitations of Evolutionary Search
 - ◇ Unit 9: Deconstruction of Avida
 - ◇ Unit 10: Measuring Meaning in Design
110. Apologetics Course I, First Baptist Church, Woodway, TX.
- ◇ (a) What does it mean to love God with all your mind?” January 19 (with Will McKerral).

- ◇ (b) Faith VS Science: Can a dedicated scientist believe in God?” January 26, 2022.
- ◇ (c) Evolution Models: What are the different models of evolution? What should a Christian believe?” February 9, 2022.
- ◇ (d) Evolution Models: What are the different models of evolution?
- ◇ (e) Higher Dimensions & Infinity Where is heaven? What does eternity mean?” February 23, 2022.
- ◇ (f) Artificial Intelligence: Will AI ever overtake and even replace mankind?” March 16, 2022.

111. Robert J. Marks “AI Apocalypse: Will Thinking Machines Replace Humans?” Dallas Conference on Science and Faith, Denton Bible Church, Denton, TX, January 22, 2022. [Link; Flyer; More]

112. “Things You Do AI Never Will” University of Georgia, Faculty Commons, March 3, 2022.

113. “Sky Daddy in the Clouds?” Oso Logos, Baylor Student Chapter of Ratio Christi, Bill Daniels Student Center, March 31, 2022.

114. “God, Academia, and the Workplace: Witnessing for God Where He Isn’t Welcome.” (panel with Dr. Robert J. Marks, Dr. Robert Garcia and Dr. Julia Hejduk) Oso Logos, Baylor Student Chapter of Ratio Christi, Bill Daniels Student Center, April 19, 2022.

115. “AI Apocalypse: Will Thinking Machines Replace Humans?” 2022 Dallas Conference on Science and Faith in January 2022. [YouTube: <https://youtu.be/55-S3uw5nuY>; Video Cache]

“Computer engineer Robert J. Marks talks about how Artificial intelligence (AI) has influenced our society as well as the hype which has surrounded AI in the last few years.”

116. “Marks: Forget the Hype, ‘Thinking Machines’ Can’t Replace Humans” Mind Matters News, July 7, 2022. [Link]

“Walter Bradley Center director Robert J. Marks gave a talk in January at the Dallas Conference on Science and Faith on whether a robot will really take your job: ‘AI Apocalypse: Will Thinking Machines Replace Humans?’”

117. “Mind Matters Host Robert J. Marks Answers Questions About The ‘AI Apocalypse’” Dallas Conference on Science and Faith in January 2022, Denton, Texas. [YouTube: <https://youtu.be/5b3j8XMf9cE>]

“Dr. Robert J. Marks II [and Dr. William A. Dembski] answers audience questions about his lecture, ‘AI Apocalypse: Will Thinking Machines Replace Humans?’”

118. Robert J. Marks & Daniel Diaz “More than a Computer? The Specialness of the Human Mind” Tacoma, Washington, August 13, 2022.
119. Apologetics Course II, First Baptist Church, Woodway, TX.
- ◇ (a) Robert J. Marks “Winning friends and in uencing people for Christ” September 7, 2022.
 - ◇ (b) Robert J. Marks “Near Death Experiences: Hallucinations, Bloviated Anecdotes or the Front Porch of Eternity?” October 7, 2022.
 - ◇ (c) Robert J. Marks “What we learn from Walter Bradley” September 21, 2022.
120. Robert J. Marks & Daniel Diaz “Reliability For Complex Artificial Intelligence Design.” Center for Standards & Ethics in Artificial Intelligence, Baylor University, September 29, 2022.
121. University of Wisconsin
- ◇ (a) Robert J. Marks II “Non-Computable You” University of Wisconsin, Faculty Seminar, October 12. 2022
 - ◇ (b) Robert J. Marks II “Artificial Intelligence Panel” University of Wisconsin, Panel Member, October 12. 2022
 - ◇ (c) Robert J. Marks II “Artificial Intelligence: What Humans Do that Robots will Never Do!” University of Wisconsin, CRU, October 13. 2022
 - ◇ (d) Robert J. Marks II “Christian Calculus: Scientists and Their Faith” University of Wisconsin, Common Call Conference, Faculty Commons, October 15. 2022
 - ◇ (e) Robert J. Marks II “What Humans Do that Robots will Never Do” University of Wisconsin, Common Call Conference, Faculty Commons, October 15. 2022
122. Highpoint Church, Madison, WI. October 16, 2022
- ◇ (a) Robert J. Marks II “How to Live Out Loud as a Christian in Secular Vocations”
 - ◇ (b) Robert J. Marks II, “Fearfully and Wonderfully Made: What You Do AI Never Will,” [YouTube: youtu.be/7zUTSH9yThY; Video Cache].
- Contents:
- 5:30 Introduction
 - 7:00 The AI Church
 - 15:00 The Emperor’s New Mind
 - 18:44 Alan Turing
 - 23:30 Noncomputable
 - 25:56 Imagine
 - 28:12 John Searle
 - 30:14 IBM Watson
 - 30:58 AI Doesn’t Have Common Sense

- 33:33 Flubbed Headlines
- 35:38 Lovelace Test
- 37:53 Common Misconceptions
- 38:58 How did they do it?
- 41:31 Music
- 42:10 Creativity
- 44:55 Conclusion
- 47:15 Transhumanism and AI
- 49:38 Neural Networks and AI
- 51:50 Can We Trust What AI Says
- 53:30 Can AI and DNA Produce Immortality?
- 54:24 Religious People are Criticized
- 55:15 The Assumption in the Human Brain

2023

123. Robert J. Marks II, “Spectrum Engineering” NSF Sponsored, Belton High School, Belton, TX, May 5, 2023 (with Adam Goad & Samuel Hussey).
124. Robert J. Marks II, “An Unforgettable Talk” for GEAR UP (Getting Early Awareness and Readiness for Undergraduate Programs), sponsored by the US Department of Education, BRIC, Baylor University, June 6, 2023.
125. NSF Spectrum Sizzle, Baylor University, June 7, 2023
 - (a) Robert J. Marks (moderator) “Answering the ‘Why’ question” with panelists Charles Baylis, Yang Li and Casey Lathem.
 - (b) Robert J. Marks (moderator) “Should I go to grad school?” with panelists Charles Baylis, Austin Egbert, Andrew Clegg & Arvind Aradya.
126. Discovery’s 2023 Summer Seminar, Glen Aire Conference Center, Colorado Springs, Colorado.
 - (a) Robert J. Marks II, “Evolutionay Algorithms” June 29, 2023.
 - (b) Robert J. Marks II, “Can AI Replace Humans?” June 30, 2023.
127. Apologetics Course III, First Baptist Church, Woodway, TX. 2023.
 - (a) Robert J. Marks II, “Apologetics: What does it mean to love God with all your mind?” August 23, 2023.
 - (b) Robert J. Marks II, “The First Church of Intelligence” September 13, 2023.
 - (c) Robert J. Marks II, “Model Collapse in Artificial Intelligence” November 8, 2023.
 - (d) Robert J. Marks II, “Apologetics Q&A” November 17, 2023 (with Will McKerall).

128. Robert J. Marks II, “AI and the Imago Dei,” Ratio Christi, Bobo Student Center, Baylor University, Sept 6, 2023.
129. John West, Casey Luskin, Mark Garcia, and Robert Marks “Roundtable Discussion on Human Uniqueness” Westminster Conference on Science and Faith, The Miracle of Man, Covenant Fellowship Church, Glen Mills, PA September 29-30, 2023.
130. Agape Italia, Italy, Faculty Commons, October 2023.
 - (a) Robert J. Marks II, “From Whence Science? The Impact of Christianity on the Science in Western Europe” Rome, Italy, October 9, 2023.
 - (b) Robert J. Marks and Fabio Gasparetti, “Are You a Computer Made Out of Meat?” Agape Italia, Rome, Italy, October 9, 2023.
 - (c) Robert J. Marks II, “What You Do Artificial Intelligence Never Will” Balogna, Italy, October 11, 2023.
131. Robert J. Marks II, “Panel Discussion on AI” Fall Arts and Technology Conference, Tehuacana, TX. October 21, 2023.
132. Mayborn Museum, Continuing Education, Baylor Campus, 2023.
 - (a) Robert J. Marks II, “Near Death Experiences: Artificial Intelligence, Technology, and God”, October 26, 2023.
 - (b) Robert J. Marks II, “Living Out Loud as a Christian: Artificial Intelligence, Technology, and God,” Mayborn Museum, Baylor Campus, October 30, 2023.
 - (c) Robert J. Marks II, “Scientists and Their Faith: Artificial Intelligence, Technology, and God”, Mayborn Museum, Baylor Campus, November 9, 2023.
 - (d) Robert J. Marks II, “Will Artificial Intelligence Replace Humans: Artificial Intelligence, Technology, and God”, Mayborn Museum, Baylor Campus, November 16, 2023.
133. Robert J. Marks II, Walter Myers III, William Dembski, Robert J. Marks, George Montanez “The Quintessential Limits and Possibilities of AI: Three Views” Panel, COSM 2024, Bellevue, Washington, November 1, 2023. [COSM Flyer, Cache]
134. Robert J. Marks II, “Faith & Science” Vision23 Conference, Bridges International, Baltimore Hilton, December 29, 2023.

2024

135. Big Sky Worldview Forum, Billings, MT. January 26, 2024.
 - (a) Robert J. Marks II, “Non-Computable You - What You Do that A.I. Never Will?” Big Sky Worldview Forum, Billings, MT. January 26, 2024. 7PM. [Radio Ad Flyer; Video; Video Cache; Slides]

- (b) Robert J. Marks II, “From Whence Science - can a Christian be a Scientist?” Big Sky Worldview Forum, Billings, MT. January 26, 2024. 8PM. [Radio Ad; Flyer; Video Cache; Slides]
 - (c) Robert J. Marks II, “The Mind-Body Question: Are You a Materialist Computer Made Out of Meat” Big Sky Worldview Forum, Billings, MT. January 27, 2024. 9AM. [Radio Ad, Flyer, Video, Video Cache, Slides.] [Radio Ad; Flyer; Video Cache; Slides]
 - (d) Robert J. Marks II, “Living-Out-Loud as a Christian - an Inspiring Hero” Big Sky Worldview Forum, Billings, MT. January 27, 2024. 10AM. [Radio Ad; Flyer; Video Cache; Slides]
 - (e) Robert J. Marks II, “AI Q&A Dinner” Big Sky Worldview Forum, Billings, MT. January 27, 2024.
136. Robert J. Marks, “The ‘Arms Race’ for FakeAI Election Content Is On” Epoch Times, January 11, 2024. [Link]
- “It’s kind of like the arms race. You come up with a way of faking video, somebody comes up with a way of detecting it. But then the other side looks at the way of detecting it, and they figure out how to get around that,” he [Marks] said.”
137. CRU, North Carolina University, Raleigh, North Carolina, February 9, 2024.
- (a) Robert J. Marks II, “Science & God” CRU, North Carolina University, Raleigh, North Carolina, February 8, 2024. [Flyer]
 - (b) Robert J. Marks II, “Living Out Loud as a Christian” CRU, North Carolina University, Raleigh, North Carolina, February 10, 2024. [Flyer1; Flyer2]
138. Common Call, North Carolina University, Raleigh, North Carolina, February 9, 2024.
- (a) Robert J. Marks II & Monika Marks, “Perspectives on Marriage & Ministry” Common Call, North Carolina University, Raleigh, North Carolina, February 9, 2024.
 - (b) Robert J. Marks II, “AI” Common Call, North Carolina University, Raleigh, North Carolina, February 10, 2024. [Flyer1; Flyer2]
139. Robert J. Marks II, “Answers to every question you have about AI” Teal Residential College, Baylor, March 12, 2024.
140. Robert J. Marks II, “Where is Heaven?” Ratio Christi, Elliston Chapel, Baylor University, April 2, 2024, 7PM. [Flyer]

141. Regent University, Virginia Beach, VA, April 5, 2024.
 - (a) Robert J. Marks II, “For a Greater Purpose: The Life and Legacy of Dr. Walter Bradley” April 5, 2024.
 - (b) Robert J. Marks II, “Should You Go to Grad School?” ECS, Virginia Beach, VA, April 5, 2024.
 - (c) Robert J. Marks II, “Non-Computable You: What You Do That Artificial Intelligence Never Will” April 5, 2024. [Program ; Picture]
142. Stephen F. Austin University.
 - (a) Robert J. Marks II, “What You Do AI Will Never Do” College of Sciences and Mathematics, April 15, 2024. [Flyer]
 - (b) Robert J. Marks II, “Faculty Living Out Loud As Christians: Lessons from Walter Bradley” Baptist Student Ministry, April 16, 2024. [Flyer1; Flyer2]
143. Robert J. Marks II, “Where is Heaven” Grace Bible Church, Nacogdoches, TX, April 16, 2024.
144. Concordia University, Mackinac Island, Michigan, May 8-10, 2024.
 - (a) Robert J. Marks II, “AI in Perspective,” Ignite and Inspire Leadership Conference (IILC), Concordia University, Mackinac Island, Michigan, May 8-10, 2024.
 - (b) Robert J. Marks II, “Non-Computable You” Ignite and Inspire Leadership Conference (IILC), May 8-10, 2024. [Announcement]
145. “Spectrum Sizzle: An Undergraduate Spectrum Workshop funded by the National Science Foundation,” June 3-6, 2024, Baylor University, Waco, Texas. [Agenda]
 - (a) “Answering the ‘Why’ Question: Finding Meaning in Work and Life,” Rogers 109, Bob Marks (Moderator), Panelists: Charlie Baylis, Casey Latham, Tom Brooks
 - (b) “Graduate School,” Moderator: Bob Marks, Panelists: Arvind Aradhya, Austin Egbert, Charlie Baylis
146. IEEE MTT-S International Microwave Symposium, Washington DC, June 16, 2024.
 - (a) Robert J. Marks, Jonathan E. Swindell, Austin Egbert, Samuel Haug, Charles Baylis “The Use of Artificial-Intelligence in Radio Spectrum” IEEE MTT-S International Microwave Symposium, Washington DC, June 16, 2024
 - (b) Panel Discussion Among Presenters.
147. Robert J. Marks, Discovery Summer Seminar, Glen Eyrie, Colorado Springs, Colorado June 24-29, 2024.
 - (a) “Evolutionary Algorithms” Thursday, June 27, 2024.
 - (b) “Can AI Replace Humans?” Friday, June 28, 2024.

- (c) Faculty Panel (with John West, Casey Luskin, Jonathan Witt, Jonathan McLatchie, Brian Miller) Saturday June 29, 2024.
148. Apologetics Course IV, First Baptist Church, Woodway, TX. 2024.
- (a) Robert J. Marks II, “AI and You” September 18, 2024
- (b) Robert J. Marks II, “The Free Will/Predestination Debate: What Science & Scripture Say” October 2, 2024.
- (c) Robert J. Marks II, “Science & Faith: Western Europe Genesis” October 16, 2024.
149. AI Week, Office of the Provost and the School of Engineering and Computer Science, Baylor University, October 14-16, 2024.
- (a) Robert J. Marks “Ethical AI,” October 14, 2024.
[YouTube: <https://youtu.be/i7txw9hOcIY?si=YQvygj4J1sZlZ30c>]
- (b) Robert J. Marks, David Copps, Collin Stultz, James Pitarresi “Panel Discussion: Exploring the Future of AI in Higher Education” Daniel Pack, Moderator. October 15, 2024.
150. Robert J. Marks II, “Non-Computable You” Ratio Christi, Elliston Chapel, Baylor University, October 29, 2024.
151. “It’s Just an Apparition: Unmasking AI Hype” Panel: ROBERT J. MARKS - DIRECTOR, BRADLEY CENTER FOR NATURAL & ARTIFICIAL INTELLIGENCE, WILLIAM DEMBSKI - MATHEMATICIAN AND PHILOSOPHER, GEORGE GILDER - DISCOVERY INSTITUTE with moderator WALTER MYERS - SENIOR FELLOW, DISCOVERY INSTITUTE, COSM 2024, Bellevue WA, Hyatt Regency, October 31,
152. Robert J. Marks “Minding the Brain: Are You a Computer Made Out of Meat?” Teal Residential College, Baylor University, November 3, 2024.
Residential College, Baylor University, November 3, 2024.

2025

153. Memphis - Memphis University School, Memphis, Tennessee. [Instagram, cache.] [Facebook, cache.] [MUS, cache.]
- ◇ “Non-Computable You: What You Do AI Never Will” February 27, 2025. [YouTube, video cache],
- ◇ “Is Your Mind the Same as Your Brain? Are You a Computer Made Out of Meat?” February 28, 2025. [Instagram, cache.]
154. NSF Spectrum Sizzle Summer Workshop for Undergraduates, Baylor University, June 2-4, 2025. [Link.]

- ◇ “Answering the Why Question: God & Science” (Yang Li, Christian Slater, Robert J. Marks panel moderator)
 - ◇ “Graduate School?” Robert J. Marks panel moderator
155. Robert J. Marks “Exploring the Mind-Brain Relationship” North Creek Presbyterian Church, Mill Creek, WA, June 18, 2025. [flyer.]
156. Robert J. Marks “Can AI Replace Humans” Discovery Summer Seminar, Glen Eyrie Castle & Conference Center, Colorado Springs, June 27, 2025.
157. Robert J. Marks, Mongkok Baptist Church, Hong Kong, China. [Flyer, Flyer (Chinese), Abstract.]
- ◇ “Non-Computable You: What You Do AI Never Will” July 8, 2025.
 - ◇ “Is Your Soul Contained in Your Brain? Are You a Super- Computer Made Out of Meat?” July 9, 2025.
158. IEEE International Conference on Machine Learning and Cybernetics (ICMLC), Bali, Indonesia, July 12-15 2025,
- ◇ “Robert J. Marks “Non-Computable You: Hard Limits to What AI Can Do,” 2025. [Link]
 - ◇ “Trusting AI: How to Prevent the Misuse of Large Language Models,” International Conference on Machine Learning and Cybernetics (ICMLC), Bali, Indonesia, 13 July, 2025. Panel: Patrick Chan, South China University of Technology, China (Moderator), Battista Baggio, University of Cagliari, Italy, Robert J. Marks II, Baylor University, USA, Kevin Wong, Murdoch University, Australia, Tadahiko Murata, The University of Osaka, Japan. [Link]
159. Waco Chamber, “Future of AI Panel” with Dave Copps, State Senator Tan Parker and Moderated by Dr. Robert J. Marks II, Baylor University, Thursday, August 28, 2025. [Agenda]
160. Robert J. Marks, “Non-Computable You: What You Do That AI Never Will” Reasonable Faith, University of Texas Dallas (UTD), September 9, 2025. [YouTube]
161. Robert J. Marks, “Luncheon Keynote” ProSales 40th Anniversary, Baylor Business School, September 19, 2025. [Flyer]
162. “The Human Edge: Understanding the State of AI” Waco Chamber Technology Business Briefing, Thursday, November 6, 2025, McClane Stadium, Baylor University. [Link]
163. “Creation, Age, and Origins” Panel with Dr. Keith Schubert, Dr. Robert Marks, and Dr. Christopher Kearney. Thursday, November 6, 2025, Fudge Auditorium at the Hurd, Baylor University. [Flyer Link]
164. Introduction to Computational Intelligence (2026)

- ◇ Class Spread Sheet
- ◇ #1 YouTube: <https://youtu.be/05DqQfhhHC8>
- ◇ #2 YouTube: <https://youtu.be/WupaxishWds>
- ◇ #3 YouTube: <https://youtu.be/-kXlrA8Wbu8>
- ◇ #4 YouTube: https://youtu.be/SgcMi8_TpYA
- ◇ #5 YouTube: <https://youtu.be/5pukllbvoSM>
- ◇ #6 YouTube: <https://youtu.be/iJ1hh5g4fII>
- ◇ #7 YouTube: <https://youtu.be/Vg5OpAW7RjE>
- ◇ #8 YouTube: <https://youtu.be/ErMqhzM2z18>
- ◇ #9 YouTube: <https://youtu.be/C1sZne6uze8>
- ◇ #10 YouTube: <https://youtu.be/8iRgGQkn2hc>
- ◇ #11 YouTube: <https://youtu.be/ICk2OoWYsYY>
- ◇ #12 YouTube: <https://youtu.be/7qvUdvg-aGc>
- ◇ #13 YouTube: <https://youtu.be/1z5W1zbbH80>
- ◇ #14 YouTube: <https://youtu.be/XPrys3J0mR8>
- ◇ #15 YouTube: https://youtu.be/-sODu9_Qzk
- ◇ #16 YouTube: <https://youtu.be/05sJm5cVGW4>
- ◇ #17 YouTube: <https://youtu.be/j4fGh2UEwI8>
- ◇ #18 YouTube: <https://youtu.be/2dD2RG7xGUA>
- ◇ #19 YouTube: <https://youtu.be/-DOuWl2n9QA>
- ◇ #20 YouTube: <https://youtu.be/UwUuThrGlxc>
- ◇ #21 YouTube: <https://youtu.be/XPxpNG0UQkc>
- ◇ #22 YouTube: <https://youtu.be/B6fQ-PJU5-Q>
- ◇ #23 YouTube: <https://youtu.be/iAkDCGJoGEU>
- ◇ #24 YouTube: <https://youtu.be/U6Djo-rHIck>

165. Swarm Intelligence Videos

- ◇ Termites. [YouTube: <https://youtu.be/eh5H.VHzPGs>]
- ◇ Cowards. [YouTube: <https://youtu.be/hnKLIhU9a8Y>]
- ◇ Peacemakers. [YouTube: <https://youtu.be/ewgo4pe8iXc>]
- ◇ Followers. [YouTube: https://youtu.be/R_C-lbf7RHk]

166. Vision Conference, Sheraton Denver Downtown, Denver, Colorado, December 28, 2025 to January 1, 2026.

- ◇ Robert J. Marks, “The Impact of Christian Faith on Mathematics & Science: Yesterday & Today” Majestic Ballroom, December 29, 2025.
- ◇ Robert J. Marks, “Non-Computable You: What You Do AI Never Will” Majestic Ballroom, December 29, 2025.

2026

6.10 IEEE CoNNections (NNC Newsletter)

These may be the only copies of these newsletters that exist. They were produced during Robert J. Marks' tenure as IEEE Neural Networks Council and EIC of the IEEE Transactions on Neural Networks.

- 1991
 - Volume 1, #1, May 1991
 - Volume 1, #2, October 1991
- 1992
 - Volume 2, #1, February 1992
 - Volume 2, #2, May 1992
 - Volume 2, #3, September 1992
 - Volume 2, #4, December 1992
- 1993
 - Volume 3, #1, February/March 1993
 - Volume 3, #2, July 1993
 - Volume 3, #3, September 1993
 - Volume 3, #4, December 1993
- 1994
 - Volume 4, #1, March/April 1994
 - Volume 4, #2, July 1994

6.11 Acknowledgements. Announcements & Listings

1989

1. Kwang Cheung, "Image Sampling Density Reduction Below That of Nyquist" (Ph.D. Dissertation Abstract). IEEE ASSP Magazine, Volume 5, Number 4, October 1989, pp.28-29

1990

2. Ken Sadahiro, "Professors Participate in Northcon90," EE News (University of Washington), Vol. 5, #1 (October 1990) p5.
3. "Shannon Sampling and Interpolation Theory ," Association for Media-based Continuing Education for Engineers (AMCEE), Video Short Course, 1990-91
4. "Introduction of Artificial Neural Systems," University of Washington
5. "Introduction of Artificial Neural Systems," Association for Media-based Continuing Education for Engineers (AMCEE), Video Short Course, 1990-91
6. "Fluke..." Puget Sound Business Journal, February 5, 1990
7. 1990 IJCNN

1991

8. "Introduction to Shannon Sampling and Interpolation Theory" Springer Electrical Engineering Newsletter #1 (1991)
9. IEEE Seattle Section Annual Meeting, February 20, 1991 (announcement)
10. "Introduction to Shannon Sampling and Interpolation Theory" (flyer)
11. IEEE Distinguished Lecturer Handbook, 1991, pp. 50-53
12. IEEE Distinguished Lecturers Program, CoNNections: The Newsletter of the IEEE Neural Networks Council, October 1991 p.6
13. 1991 TAB Annual Report
14. Neural Networks President's Forum, Tuesday, July 9, 1991, 6:30 p.m. - 8:00 p.m., Room 612, Washington State Convention Center
15. International Joint Conference on Neural Networks, Singapore, November 18-21,1991, CFP (USA Liaison) 1991 IJCNN Seattle

1992

16. Y.X. Zhong, " Greetings from the Program Committee," Proceedings of the 1992 International Joint Conference on Neural Networks (IJCNN), Beijing, China, November 3-6, 1992, p.2.
17. 1992 International Joint Conference on Neural Networks (IJCNN), Beijing, China, November 3-6, 1992 (International Advisory Co-Chair).

18. 1992 International Joint Conference on Neural Networks (IJCNN), Beijing, China, (CFP) CoNNections: The Newsletter of the IEEE Neural Networks Council, September 1992, vol. 2, No. 3, p.13.
19. Proceedings of the IEEE-SP International Symposium on Time-Frequency and Time-Scale Analysis, October 4 - 6, 1992, Victoria, BC, Canada. (Organization Chair)
20. James C. Bezdek & Sankar K. Pal, Preface to Fuzzy Models for Pattern Recognition Methods That Search for Structures in Data, IEEE Press 1992, p.xi.
21. Proceedings of the RNNS/IEEE Symposium on Neuroinformatics and Neurocomputing, Rostov-on-Don, Russia, October 7- 10, 1992 (International Chair)
22. The RNNS/IEEE Symposium on Neuroinformatics and Neurocomputing, Rostov-on-Don, Russia (CFP), CoNNections: The Newsletter of the IEEE Neural Networks Council, September 1992, vol. 2, No. 3, p.14.
23. J.C. Bezdek, "Conference Report: FUZZ-IEEE '92," CoNNections: The Newsletter of the IEEE Neural Networks Council, May 1992, vol. 2, No. 2, p.5.
24. J.C. Bezdek, "A Message From the General Chair," IEEE International Conference on Fuzzy Systems, San Diego, March 8-12,1992.
25. Teck Seng Low, "IJCNN 91 Singapore: The International Joint Conference on Neural Networks," CoNNections: The Newsletter of the IEEE Neural Networks Council, Vol.2, No.1, February 1992, pp.5-6
"Photos courtesy Bob Marks"
26. RNNS/IEEE Symposium on Neuroinformatics and Neurocomputing (CFP) CoNNections: The Newsletter of the IEEE Neural Networks Council, October 1991 p.6 (International Chair)
27. Clifford Lau, "IJCNN 92, The best conference on neural networks ever," CoNNections: The Newsletter of the IEEE Neural Networks Council, September 1992, vol. 2, No. 3, p.9.

1993

28. "Computational Intelligence: Imitating Life", CoNNections: The Newsletter of the IEEE Neural Networks Council, Vol.3, No 4, December 1993.
29. Thomas P. Caudell, "VRAIS 1993", CoNNections: The Newsletter of the IEEE Neural Networks Council, Vol.3, No 4, December 1993, p.1, 5-6.
30. Takanori Shibata, "IJCNN-1993 Nagoya", CoNNections: The Newsletter of the IEEE Neural Networks Council, Vol.3, No 4, December 1993, p.5.

31. Russell C. Eberhart, "President's Message", CoNNections: The Newsletter of the IEEE Neural Networks Council, Vol.3, No 4, December 1993, p.3.
32. Colin Weil, "Our First Year Looking Forward (and Backward)" Fuzzy Logic and Neural Network Interest Group (FLANNIG), Vol. 1, No. 3 , December 1993 , p.1
33. The First New Zealand International Two-Stream Conference on Artificial Neural Networks and Expert Systems, November 24-26, 1993, Dunedin, New Zealand (Program Committee)
34. IEEE/Tsukuba International Workshop on Advanced Robotics, November 8-9, 1993, AIST Tsukuba, Japan - Advisory Committee.
35. Thomas A. Furness, "Greetings From the General Chair"
36. IEEE Virtual Reality Annual International Symposium, Sept 18-22, 1993, Seattle, WA, pp.i-ii
37. Enrico H. Ruspini, "1993 IEEE International Conference on Neural Networks (ICNN'93), Second IEEE International Conference on Fuzzy Systems (FUZZ-IEEE'93)" CoNNections: The Newsletter of the IEEE Neural Networks Council, Vol.3, No2, July 1993, pp.3-4 - Acknowledgement
38. WCCI 1994 CFP, CoNNections: The Newsletter of the IEEE Neural Networks Council, Vol.3, No 2, July 1993.
39. Artificial Neural Networks in Electric Power Systems, September 9 - 11, 1992, Madrid, Spain (September 7-11, 1992)

1994

40. Patrick K. Simpson "Presidents Message," Proceedings of the IEEE World Congress on Computational Intelligence, p.2 (1994) - Acknowledgement
41. Piero Bonissone "Greetings from the FUZZ-IEEE Conference Chair," Proceedings of the IEEE World Congress on Computational Intelligence, p.3 (1994)
42. "EE400: Introduction to Fuzzy Systems," Fuzzy Logic and Neural Network Interest Group (FLANNIG), Vol 2, No. 2, March 1994, p.2
43. Fuzzy Logic
44. Technology and Applications ad in The Institute, vol.18, No. 2, March/April 1994. FUZZ-IEEE/IFES, Yokohama, 1995 flyer
45. International Conference on Neural Information Processing (ICONIP) 1994, Seoul, Korea (International Advisory Committee)

46. "EE400: Introduction to Fuzzy Systems," Fuzzy Logic and Neural Network Interest Group (FLANNIG), Vol 2, No. 2, March 1994, p.2
47. R.J. Marks II, Fuzzy Logic Technology & Applications, IEEE Press, 1994 (FLYER)

1995

48. JFTA (Joint Time-Frequency Analysis) - A New Perspective on Signal Analysis National Instruments adopts the cone shaped kernel introduced by Zhao, Atlas & Marks
49. Bing Sheu, Mohammed Ismail, Edgar Sanchez-Sinencio and Tony H. Wu, Microsystems Technology for Multimedia Applications: An Introduction (IEEE Press, 1995)

1999

50. "It's Toon Time", The IEEE Institute, vol. 23, No 1, January 1999, p.14
51. TV Times, March 7-13, 1999 (Seattle Times). Graduate courses taught by Robert Marks, such as Multidimensional Signal Processing, were broadcast on cable TV.

2006

52. 060101 The joy of mathematics (Stolen draft of Marks's Handbook of Fourier Analysis)

2007

53. 071201 (The Rope) PRESIDENT LILLEY SIGNS OFF ON CAMPUS HAZING RESEARCH GRANT (parody)

2012

54. Head of Baylor ECE Faculty Search committee

2019

55. Endorsement: Smith, Gary, and Jay Cordes. The 9 Pitfalls of Data Science. Oxford University Press, 2019.

7 Research Grants & Contracts

1. "Lensless space-variant processing," Graduate School Research Fund (1978-79), \$5,824.
2. "Coherent optical extrapolation of two-dimensional bandlimited signals," National Science Foundation (1979-81), \$32,000.
3. "Coherent optical interpolation of continuously sampled images," Graduate School Research Fund (1982-83), \$6,596.
4. AT&T Research Equipment Grant (1985)...with L.E. Atlas, \$62,000. "Analysis and application of neural nets," Boeing High Technology Center (1986-88).with L.E. Atlas-\$110,000.
5. "Neural network computer architectures," The Washington Technology Center (1987-89) with L.E. Atlas.
6. "Increasing the accuracy of inexact processors," SDI/IST through ONR & the Optical Systems Lab at Texas Tech University and WTC (1988-1989), \$230,000.
7. "Power Systems Stability and Security Assessments Using Artificial Neural Networks" NSF (1988-1990), Project Coordinator, co P.I. with M.A. El-Sharkawi, M. Damborg & L.E. Atlas-\$337,500.
8. "Neurocomputers," The Washington Technology Center (1989-91) with L.E. Atlas, \$150,000.
9. "Electric load forecasting using artificial neural networks," Puget Sound Power and Light Company (1989-90) with M. El-Sharkawi, L.E. Atlas & M. Damborg-\$115,000.
10. "Advanced Time-Frequency Displays," Boeing Commercial Airplane Company, September 1, 1989 through October 30, 1990, co-P.I. with Les Atlas-\$128,000.
11. "Neural Network & Learning Systems," The Washington Technology Center (1991-92) with L.E. Atlas, \$150,000.
12. "Solution of Inverse Problems in Electromagnetic and Optical Propagation Using Artificial Neural Networks," National Science Foundation, February 15, 1991 to February 14, 1993, (with Jenq-Neng Hwang, Leung Tsang and Akira Ishimaru),-\$151,000.
13. "Advanced Neural Network Paradigms and Applications," Boeing Computer Services, January 1, 1991 to December 31, 1993-\$90,000.
14. "Simulation Studies on Biomagnetic Detection of Bundle of His Signal and Its Application to the Cardiac Syncope Problem," General Electric, Schenectady NY, January 1, 1992 to May 31, 1992, co Principal Investigator (Lee Huntsman, Project Coordinator; with co PI's G.H. Bardy, C. Ramon, S.Oh)-\$40,000.
15. "Biomagnetic Imaging of Three-Dimensional Current Distribution," National Science Foundation, Stage 1: 6-1-92 to 5-31-95. (co PI with C. Ramon)-\$497,080.

16. Ibid. Stage 2: \$104,358, 6-1-94 to 2 29, 1996
17. "Detection of Short Turns in Turbo Alternators," Southern California Edison, August 1, 1992 to July 31, 1993, (co Principal Investigator M.A. El-Sharkawi)-\$93,765.
18. "S&P 500 Trading Using Spectrally Trained Neural Networks," Washington Technology Center, January 1993 to June 1993, \$25,000.
19. "Tune & Prune Adaptation of Fuzzy Inference Engines," Royalty Research Fund, University of Washington, June 15, 1993 to September 1994, \$14,000.
20. "Localization of Short Turns in Turbo Alternators," Southern California Edison, August 1, 1992 to July 31, 1993, (co Principal Investigator M.A. El-Sharkawi)-\$94,000.
21. "Financial Neural Networks," Washington Technology Center, August 1993 to March 1994, \$10,000.
22. "Detection of Short Turns in Operating Turbo Alternators," Southern California Edison, August 1, 1993 to August 31, 1994, (co Principal Investigator M.A. El-Sharkawi)-\$93,000.
23. "Advanced Neural Network Paradigms and Applications," Boeing Computer Services, January 1, 1994 to December 31, 1996-\$90,000.
24. "Wavelet Based Neural Networks," Washington Technology Center, January 1995 to June 1995, \$7,000.
25. "Genetic Algorithm Carbon Brake Analysis," Boeing Airplane Company, September 1994 to December 1994, \$23,000.
26. "Under-Load Evaluation of Breaker Contacts Condition," National Science Foundation, GOALI Grant No.ECS-9634600, September 1, 1996 to August 31, 1997, (Co-PI with Mohamed A. El-Sharkawi in collaboration with Isador Kerszenbaum, Southern California Edison), \$50,000.
27. "Intelligent Systems Applications for Transmissions and Distribution Systems," (Co-PI with Mohamed A. El-Sharkawi), Southern California Edison, 1996-97, \$79,530.
28. "Advanced Neural Network Paradigms and Applications," Boeing Computer Services, January 1, 1996 to December 31, 1997-\$23,000;
 - o Ibid. 1997-98 \$23,000;
 - o Ibid. 1998-99 \$23,000.
29. "UG Cable Replacement," Southern California Edison, 1997 - \$50,000 (Co-PI with Mohamed A. El-Sharkawi).
30. "Twin signal signature sensing: application to shorted winding monitoring, detection and localization," NSF/EPRI, 1995-1999, (co Principal Investigator M.A. El-Sharkawi), \$398,000.

31. "Environmentally Adaptive Sonar," Office of Naval Research/ Applied Physics Laboratory, September 1997 to September 1999 - \$90,000 (Co-PI with Mohamed A. El-Sharkawi).
32. "A New Paradigm for Designing Radiation Beams for Cancer Treatment," The Whitaker Foundation, January 1998 to December 2000 - \$210,000 (Co-PI with Paul Cho, Department of Radiation Oncology, UW School of Medicine.)
33. "Automatic Decision Aggregation," Boeing Defense, Nov 1997 through May 1998, \$26,000.
34. "Automatic Environmentally Adaptive Sonar Control," Office of Naval Research, 1998-2001, - \$333,000 (Co-PI with M.A. El-Sharkawi).
35. "Assessment of prostate seed implants NIH, October 1, 2001 to Dec 31, 2002 (Co-PI with Paul Cho, Department of Radiation Oncology, UW School of Medicine.), NIH, \$212,000.
36. "Sensor Coverage for Vehicle Health and Safety Systems," Boeing Defense, June 2001 to Dec. 2001 (PI \$25,000).
37. "Intelligent Sensor and Satellite Networks for Earth Science & Exploration," JPL & NASA Sept 1, 2000 to Dec 31, 2002 (co PI with M.A. El-Sharkawi, subcontract from JPL for \$250,900.)
38. "Model-Based Complex Data Set Correlation Boeing Airplane Company, Jan 16, 2001 to Jan 16, 2002, (PI \$42,099)
39. "Physiologic Development of Speech Production," NIH, Sept 1, 2001 to Sept 2006 (PI. Christopher A. Moore, Speech & Hearing Sciences. R.J. Marks II is a co-investigator, Grant Total is \$2,861,174.).
40. "Reconstruction of Missing Sensor Readings on Jet Aircraft Engines," Boeing Phantom Works, September 2001 to May 2002 (\$32,000).
41. "Missing Sensor Data Restoration: Computationally Intelligent Discovery of Reading Dependencies," NSF, Sept 16, 2001 to Aug 31, 2004, (co-PI with M.A. El-Sharkawi, \$588,898).
 - o Ibid. Undergraduate support addendum, \$12,000.
42. "Intraoperative Dose Optimization for Prostate Brachytherapy," ARO, co-PI with Paul Cho and Y. Kim. \$550,000, 2003-06 (3 years).
43. "Application of computationally intelligence techniques to long term multistatic sonar systems" (ONR - EE/APL, 3 years, Marks Co-PI) \$960k total.
44. "Collective Behavior of Biological Swarms: System Modeling, Analysis, and Algorithmic for Distributed Dynamic Resource Allocation Problems," JPL Director's Research and Development Fund, Jet Propulsion Laboratory, Co-PIs are Payman Arabshahi

- (JPL), R.J. Marks II (UW), Michael Dickinson (Cal Tech) and Alcherio Martinoli (Cal Tech), 2003-04, \$200,000.
45. "Reconstruction of Missing Sensor Readings on Jet Aircraft Engines: Phase II," Boeing Phantom Works, April 2003 to July 2003, (\$32,000),
 46. "Supplemental RA Support," Applied Physics Lab, University of Washington, Spring Quarter, 2003, (\$11,138).
 47. "Real-Time Distributed Control Networks: Dynamic Bandwidth Allocation via Adaptive Sampling" (with Ian Gravagne and John Davis, Baylor University) NSF, 3 years, \$311k.
 48. Ibid. Supplemental REU funds obtained for supporting summer undergraduate research (\$15,000).
 49. "Mu-Dynamics on Time Scales: Adaptive Time Domains for Dynamical Systems," (with Ian Gravagne and John Davis, Baylor University) NSF, 3 years, \$143k.
 50. "Multi-Agent System Based Intelligent Distributed Control System for Power Plants," (with Kwang Y. Lee, P.I. and Ian Gravagne), 2008–2011, \$132k.
 51. "Inversion of Swarm Dynamics for Underwater Tactical Applications," Office of Naval Research, 2009–2011, \$270,000 (with Benjamin B, Thompson, ARL Penn State)
 52. "Joint Optimization of Radar Power Amplifier and Waveforms for Reduced Spectral Spreading," ARL (Charles Baylis, P.I.) \$62,000.
 53. "Tactical Task Allocation and Resource Management in Nonstationary Swarm Dynamics," Office of Naval Research, 2012–2013, \$270,000 (with Benjamin B, Thompson, ARL Penn State)
 54. "Evaluation of Airport Wireless Interference Assessment and Comparison with University Campus Wireless Coexistence," TEM Consulting, (Charles Baylis, P.I., R.J. Marks co P.I.) \$2000, Sept 19, 2013 to Sept 20, 2014.
 55. "EARS: Joint Circuit and Waveform Optimization for Cognitive, Spectrally Confined Radar Transmission," National Science Foundation, (Charles Baylis, P.I., R.J. Marks co P.I.) \$400,000. October 1, 2013 to September 30, 2017.
 56. Ibid. Supplemental \$16,000 Research Experiences for Undergraduates (REU) awarded 2015. Supplemental \$16,000 Research REU awarded 2016.
 57. "Reconfigurable Power Amplifier and Filter Technology for Real-Time Adaptive Next Generation Radar," Army Research Laboratory, (Charles Baylis, P.I., R.J. Marks co P.I.) \$1,138,455, May 2016 to June 2021
 58. "Investigation of Wideband Low-Noise Amplifier Linearity in Receiver Interference Scenarios," Raytheon, January 1, 2016 August 31, 2016, (Charles Baylis, P.I., R.J. Marks co P.I.) \$9,972 (2016-2017).

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59. "Business Intelligence: Application to Influence Metrics," Influence Networks, June 15, 2017 through July 31, 2017, \$16,115, Robert J. Marks II (PI)
 60. "Testing Theories of Entrepreneurship: Agent and Swarm Based Models of Entrepreneurial Behavior and Outcomes." June 2017 - December 2017 (with Steve Bradley) Bough Grant, \$3500.
 61. "Artificial and Natural Intelligence: Identifying & Applying the Difference," Discovery Institute, 2018-2021, \$288,790, Robert J. Marks II (PI)
 - o Ibid. 2021-2022, \$60,790.
 - o Ibid. 2022-2023, \$32,000.
 - o Ibid. 2023-2024, \$32,000.
 - o Ibid. 2024-2025, \$30,000.
 - o Ibid. 2025-2026, \$32,000.
 - o Ibid. 2026-2027, \$32,000.
 62. "Software Defined Radar Option, Reconfigurable Power Amplifier and Filter Technology for Real-Time Adaptive Next Generation Radar" Army Research Laboratory, Dates of Funding: July 1, 2018 - June 30, 2020, \$265,000, Charles Baylis (PI), Robert J. Marks II (Co-PI)
 63. "Real-Time Optimization of Fundamental and Harmonic Load Impedances, Source Impedance, Input Power, and Bias," Sponsor: Naval Surface Warfare Center - Crane Division, Duration: July 2019 - December 2020, Baylor Funding (Base Period Only): \$12,300, Other Collaborators: Purdue University, University of Toledo, Charles Baylis (PI), Robert J. Marks II (Co-PI)
 64. "Wideband and High-Power Reconfigurable Plasma Matching Network for Compact and Efficient Phased Array Emitters," Sponsor: Office of Naval Research Electronic Warfare Program, Sponsor: Purdue University, Duration: July 2019 - July 2022 (two competitive options of 12 months and 18 months possible), \$274,000, Other Collaborators: Purdue University (lead), University of Toledo, University of Illinois, Charles Baylis (PI), Robert J. Marks II (Co-PI)
 65. "Metacognition-Guided Real-Time Adaptable Circuit, Waveform, and Array Optimizations for Radar and Electronic Warfare" Army Research Office, Dates of Funding: September 2020 - September 2021, \$350,000.00, Charles Baylis (PI), Robert J. Marks II (Co-PI)
 66. "SII Planning: Developing a National Spectrum Innovation Initiative (SII) Center for Adaptive and Reconfigurable Wireless Technology" National Science Foundation, Dates of Funding: August 2020 - July 2021, \$299,996, Charles Baylis (PI), Robert J. Marks II (Co-PI)
 67. "Reconfigurable Array Radar Techniques for Real-Time Spectrum Sharing" Naval Research Laboratory (prime)/KeyW Corporation, \$40,000, April 2020 - March 2021, Charles Baylis (PI), Robert J. Marks II (Co-PI)

68. "SWIFT: LARGE: Broker-Controlled Coexistence of 5G Wireless Artificially Intelligent Power Amplifier Array (AIPAA) with Passive Weather Radiometers" National Science Foundation, Dates of Funding: January 1, 2021 - December 31, 2023, \$421,666, Charles Baylis (PI), Robert J. Marks II (Co-PI)
69. "Reconfigurable Power Amplifier and Filter Technology for Real-Time Adaptive Next Generation Radar," \$1,448,679, 04/13/2016 to 12/31/2022. Charles Baylis (PI), Robert J. Marks II (Co-PI)
70. "Center for Standards and Ethics in Artificial Intelligence (CSEAI)" National Science Foundation, Awarded 2022. Pablo Rivas (PI) with Robert J. Marks, Greg Hamerly, Tomas Cerny and Liang Dong (co-PI's). February 1, 2022 to December 31, 2022 (\$58,194 including cost sharing).
 - o Ibid. June 3, 2021 to Jan 31, 2023, \$19,996.00.
71. "Intelligent Automated Amplifier Design and Measurement Optimization," Keysight Technologies, Nov. 2022 to July 2023, \$120,000. Charles Baylis (PI), Robert J. Marks II (Co-PI).
72. "Conference: Undergraduate Spectrum Workshop," National Science Foundation, \$99,999.00. August 2022 to July 2023. Charles Baylis (PI), Robert J. Marks II (Co-PI).
73. Baylis, C. P. (Principal Investigator, 25), Dong, L. (Co-PI, 25), Li, Y. (Co-PI, 25), Marks, R. J. (Co-PI, 25), "SMART Hub: Hub for Spectrum Management with Adaptive and Reconfigurable Technology," Federal Pass-Thru, Huntington Ingalls Industries, (May 20, 2024 - May 19, 2025)
74. Baylis, C. P. (Principal Investigator, 67), Marks, R. J. (Co-PI, 33), "Metacognition-Guided Real-Time Adaptable Circuit, Waveform, and Array Optimizations for Radar and Electronic Warfare," Federal, US Army Research Laboratory, (September 15, 2020 - September 14, 2025) Amount Awarded: \$1,476,621.00 Amount Funded: \$1,476,621.00 Expenditure
75. Baylis, C. P. (Principal Investigator, 67), Marks, R. J. (Co-PI, 33), "Collaborative Research: SWIFT: LARGE: Broker-Controlled Coexistence of 5G Wireless Artificially Intelligent Power Amplifier Array (AIPAA) with Passive Weather Radiometers," Federal, National Science Foundation, (January 1, 2021 - December 31, 2024) Amount Awarded: \$533,899.00 Amount Funded: \$533,899.00 Expenditure
76. C. Baylis (PI), R.J. Marks (Co-PI), "Intelligent Automated Amplifier Design and Measurement Optimization," Keysight Technologies, August 2023 - December 2025, \$200,000.
77. Baylis, C. P. (Principal Investigator, 25), Marks, R. J. (Co-PI, 25), Dong, L. (Co-PI, 25), Li, Y. (Co-PI, 25), "SMART Hub (Hub for Spectrum Management with Adaptive and Reconfigurable Technology)," Proposal, US Army Research Laboratory, (March 24, 2024)

78. Baylis, C. P. (Principal Investigator, 50), Marks, R. J. (Co-PI, 50), “IAC MAC RFP P000045000-002 - Waveform Methodologies (SmartHub),” Proposal, US Army Research Laboratory, (October 7, 2024)
79. Baylis, C. P. (Principal Investigator, 67), Marks, R. J. (Co-PI, 33), “Collaborative Research: NewSpectrum: Semiconductor Plasma Phased Arrays with Integrated System Performance-to-Radiator Mapping,” Proposal, National Science Foundation, (May 24, 2024)

8 Professional Activities

8.1 Organizations

- ◇ Financial Neural Networks, Chief Technology Officer, 1992-1994.
- ◇ Multidimensional Systems Corporation, President, 1997-2002.
- ◇ Arbor Ministries, Seattle, Washington, Board of Directors, Secretary (2002-2012).
- ◇ Center for Evolutionary Informatics, Board of Directors, President (2008-present).
- ◇ American Institute for Technology and Science Education (AITSE), Advisory Council, (2009-2013).
- ◇ Intelligent Education, Advisory Board, (2015-present)
- ◇ Walter Bradley Center for Natural and Artificial Intelligence, Director & Senior Fellow, 2018-present
- ◇ Cornerstone University, Grand Rapids Michigan, AI Advisory Council, 2026-present.

8.2 Expert Witness

- ◇ Neuromedical Systems, Inc (Plaintiff) vs. Neopath (Defendant), United States District Court, Southern District of New York (1997-98) - Decision for the Defendant.
- ◇ Neopath (Plaintiff) vs Neuromedical Systems, Inc (Defendant) vs., United States District Court, Seattle (1997-98) - for the Plaintiff.
- ◇ Nestor, (Plaintiff) vs. Hecht-Nielsen Corporation Software (Defendant), filed Nov. 25, 1998, in U.S. District Court in Rhode Island.
- ◇ Hecht-Nielsen Corporation Software (Plaintiff) vs. Transaction Systems Architects Inc. and ACI Worldwide Inc. (Defendants), U.S. District Court in San Diego.
- ◇ Ysleta Del Sur Pueblo: Tigua Gaming Agency (Defendant)vs State of Texas (Plaintiff) -for the Defendant

8.3 Consulting

- ◇ Microsoft Corporation, Redmond, WA
- ◇ Boeing Computer Services
- ◇ Boeing Airplane Company
- ◇ Applied Physics Lab, University of Washington
- ◇ APPA Systems Inc., Bellevue, WA
- ◇ Technical Arts Mfg. Co. Inc., Redmond, WA
- ◇ John Fluke Manufacturing Company Inc., Everett, WA
- ◇ Space Labs, Redmond, WA
- ◇ Lasentec, Bellevue, WA
- ◇ Flow Industries, Kent, WA.
- ◇ Philipp Technologies, Bellevue, WA
- ◇ Multidimensional Systems Corporation, Lynnwood, WA
- ◇ Pacific Gas & Electric
- ◇ American Pioneer Corporation, Ballard
- ◇ Decisions Systems Corporation, Atlanta, GA
- ◇ Inficom Corp, Redmond, WA
- ◇ DARPA, Crystal City, VA
- ◇ Lineage Media and Solutions, Inc. Bellevue, WA