Dr. Vijay K. Madisetti
Fellow, IEEE
vkm@madisetti.com
Cell: 770-527-0177
Address:
56 Creekside Park Drive
Johns Creek, GA 30022

Employment:

- 1989-present: Full Professor of Cybersecurity & Privacy, and Electrical & Computer Engineering (**Georgia Tech, Atlanta, GA 30332**).

Areas of Technical Interest – Computer & Electrical Engineering: Control Systems, Software Engineering, Cloud Computing, Signal Processing, Embedded Systems, Wireless & Mobile Communications, Mobile Applications, Circuit Design (Analog/Digital), Biomedical Instrumentation Hardware/Software, Software Engineering, Digital Signal Processing, Sensors, Blockchain, Cybersecurity, Power Electronics, Wireline & Wireless Computer Networking, Internet of Things (IoT).

Education: PhD (EECS, University of California at Berkeley, 1989), **B.Tech** (Hons) in Electronics and Electrical Communications Engineering (Indian Institute of Technology, Kharagpur, 1984).

Startup Companies:

Director, **VP Technologies, Inc**. (1995-): A startup commercialized through Georgia Tech's Advanced Technology Development Corporation (ATDC) focusing on digital software and hardware design services for military market. http://www.vptinc.net

Director, **Soft Networks, LLC** (2001-2007): A startup commercialized through Georgia Tech support focusing on software development tools and compilers for Cellular/WiFi/VOIP/telecommunication products. http://www.soft-networks.com

Director, **Elastic Video Inc.** (2007- 2009): A startup commercialized through Georgia Tech's VentureLab (http://venturelab.gatech.edu) development image and video processing software for wireless & IP networking.

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Litigation Experience (2016-2023) With Testimony

(Note: There may be multiple cases between the parties, e.g., District Court v. ITC, US versus Foreign Cases)

Chrimar v. Adtran, Alcatel, et al.
Technology: Power over Ethernet (2015-2017)
Submitted reports & Deposition & Trial

Chamberlain v. Ryobi/TTI
Case No: 1:16-cv-06097 (ND Illinois)
Expert for Ryobi
Technology: Wireless/IoT/Barrier Movement (2016 – 2019)
Submitted reports & deposition & trial testimony

IOEngine v. IMC/Imation
Case No: cv-14-1572-GMS (US Delaware)
Expert for IMC/Imation
Technology: Networked Storage Device (2016-2017)
Submitted reports & deposition & trial testimony

Huawei v. Samsung
Case No: 3:16-cv-2787-WHO (ND Cal)
Expert for Samsung
Technology: 4G/LTE Random Access Protocols (2016-2019)
Submitted reports & deposition

Hitachi Maxell v. ZTE/Huawei
Case No: 5:16-cv-00178-RWS (ED Texas)
Expert for Hitachi Maxell
Technology: Digital Cameras
Submitted reports & deposition (2017 – 2018)

Hitachi Maxell v. Apple
Case No: 5:19-cv-00036-RWS
Expert for Hitachi Maxell
Technology: Digital Cameras
Submitted Expert Reports (2020-)

Qualcomm v. Apple
Case No: 17-ccv-0108-GPC-MDD (SD Cal) Also, Related ITC/FTC Matters
Expert for Qualcomm
Technology: 4G/Wireless Communications/Smartphones (2017-2019)
Submitted Reports and Deposition

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Qualcomm v. Apple
Case No: 3:17-cv-01375-DMS-MDD (SD Cal)
Expert for Qualcomm
Technology: 4G/Wireless Communications/Smartphones (2017-2019)
Submitted Reports and Deposition

Optis v. Huawei
Case No: 2:17-cv-123 (E.D. Texas)
Expert for Optis Wireless
Technology: 4G/Video (2017-2019)
Submitted reports & deposition

Beckman Coulter v. Sysmex
Case No: 1:17-cv-24049-DPG (ND Illinois)
Expert for Sysmex
Technology: Medical Instrumentation Automation (2017-present)
Testifying Expert

TQ Delta v. Xyxel/Adtran
Expert for TQ Delta
Technology: DSL Technologies (2018-present)
Testifying Expert

3GL/KPN v. LG, Blackberry, HTC
Expert for 3GL/KPN
Technology: 4G/LTE Protocols (2018-present)
Reports and Deposition / Testifying Expert

Rovi v. Comcast
ITC No. 337-TA-1103 (ITC)
Expert for Rovi
Technology: Digital Video & interactive GUI (Jan 2018-May 2018)
Reports and Deposition

Cirba/Densify v. VMWare
Case No: 1:19-cv-00742-LPS
Expert for Cirba/Densify
Technology: Virtualization (2019-present)
Reports Deposition/PI Hearing / Testifying Expert

Power Integrations v. On Semiconductor
Case No: 17-cv-03189-BLF
Expert for On Semiconductor
Technology: Power Electronics (2018-2019)
Reports & Deposition/Testifying Expert.

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Pathway v. Lumens, IPEVO, Aver JDA
Case No: ITC 337-TA-1045
Expert for Lumens JDA
Technology: Document Cameras (2016-2019)
Reports & Deposition (for IPR/ITC, no trial)

Wilan v. Apple
Case No: 3:14-cv-2235
Expert for WiLan
Technology: Voice over LTE/LTE Protocols (2017-2020)
Reports and Testified through Deposition/Trials

St. Lawrence Comm. v. Amazon
Case No. 2:19-CV-00027-JRG
Expert for Amazon
Technology: Multimedia Codecs
Submitted Expert Reports/Deposition (2020-2020)

PanOptis v. Apple
Case No. 2:19-CV-00066-JRG
Expert for PanOptis
Technology: LTE
Submitted Expert Reports/Deposition/Trial (2019-2020)

GAS v. Sprint Communications
Case No. 2:20-cv-00007-RWS
Expert for General Access (GAS)
Technology: LTE
Submitted Expert Reports/Deposition (9/21-)

Causam v. Ecobee, Itron, et al
Case No. ITC 337-TA-1277
Expert for Causum
Technology: Load Management
Submitted Expert Reports and Deposition (6/22)

Masimo v. Apple
Case No. ITC 337-TA-1276 and related cases
Expert for Masimo
Technology: Pulse Oximetry
Submitted Expert Reports, Deposition & Trial

TQ Delta v. Nokia, Adtran, CommScope, 2Wire, et al
Cases in Delaware & Texas
Expert for TQ Delta
Technology: DSL and Cable Modems

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Submitted Expert Reports, Depositions & Hearings.

Paltalk Holdings v. Cisco Systems Inc.
Western District of Texas (6:21-CV-00757-ADA)
Expert for Paltalk Holdings
Technology: VOIP Technologies
Submitted Expert Reports and Deposition

Ollnova Technologies v. Carrier Group
Southern District of Florida (Case 9:22-cv-80388-DMM)
Expert for Ollnova
Technology: IoT
Submitted Report and Deposition.

VideoLabs v. Asus, et al
Case No: ITC 337-TA-1323
Expert for VideoLabs
Technology: Video Conferencing
No report or deposition

Additional matters include declarations supporting IPRs at the PTAB for Google (US Patent 8,601,154), On Semiconductor (US Patent 6,212,079), Ubisoft (US Patent 5,490,216), Lumens JDA (2017-2019), Broadcom (WiFi), Sony (US Patent 6,101,534), Kia, (US Patent 5,530,431), Qualcomm, Ericsson, Daimler Benz, VW, Estech, Amazon, Ring, Digital Ally, On Semiconductor, LoganTree, Unified Patents, BMC Software, Masimo, Sentius, BMW, Facebook, PAWS, Google, Daimler, FedEx, and Dolby.

Earned Degrees

1. **B. Tech (Hons), Electronics & Electrical Comm. Engineering**
   Indian Institute of Technology (IIT), Kharagpur, India
   1984.

2. **Ph.D., Electrical Engineering & Computer Sciences (EECS)**
   University of California (UC), Berkeley. CA
   1989.

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Books

1. **VLSI Digital Signal Processors**
   Madisetti, V.K.;
   Boston: MA, IEEE Press: Butterworth Heinemann, 1995, 525 pp.

2. **Quick-Turnaround ASIC Design in VHDL**
   Romdhane, M., Madisetti, V.K., Hines, J.
   Boston: MA, Kluwer Academic Press, 1996, 190 pp.

3. **The Digital Signal Processing Handbook (First Edition)**
   Madisetti, V. K., Williams, D. (Editors)
   CRC Press, Boca Raton, Fla, 1998, 2500 pp.

4. **VHDL: Electronics Systems Design Methodologies**.
   Madisetti, V. K. (Editor)
   Boston: MA, IEEE Standards Press, 2000, ISBN 0-7381-1878-8.

5. **Platform-Centric Approach to System-on-Chip (SoC) Design.**
   Madisetti, V. K., Arpnikanondt, A.
   Springer, Boston: MA, Springer, 2004, 280 pp.

6. **The Digital Signal Processing Handbook – Second Edition.**
   Madisetti, V. K. (2009)
   CRC Press, Boca Raton, Fla.

7. **Cloud Computing: A Hands-On Approach**
   A Bahga, V. Madisetti (2013)
   Amazon CreateSpace Publishing, 2013, 454 pp.

8. **Internet of Things: A Hands-On Approach**
   A Bahga, V. Madisetti (2014)
   Amazon CreateSpace Publishing, 2014, 450 pp.

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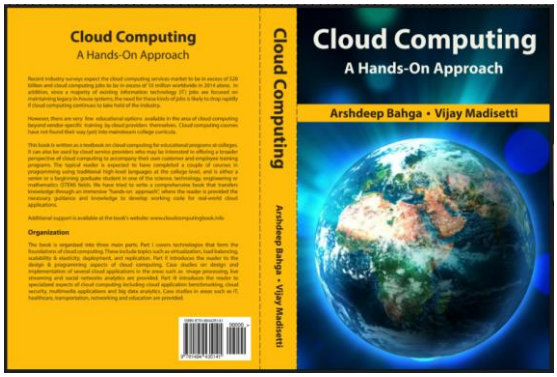

9. Big Data Science & Analytics: A Hands-On Approach
A Bahga, V. Madisetti (2016)
Amazon CreateSpace Publishing, 2016, 542 pp.

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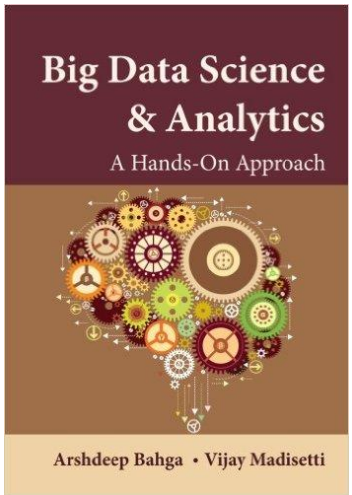
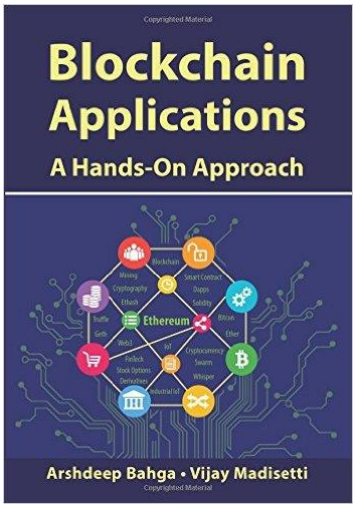


10.Blockchain Applications: A Hands-On Approach
A Bahga, V. Madisetti (2017)
Amazon CreateSpace Publishing, 2017, 380 pp.



11. Cloud Solutions Architect: A Hands-On Approach
A Bahga, V. Madisetti (2020)
Amazon CreateSpace Publishing, 2020, 930 pp.

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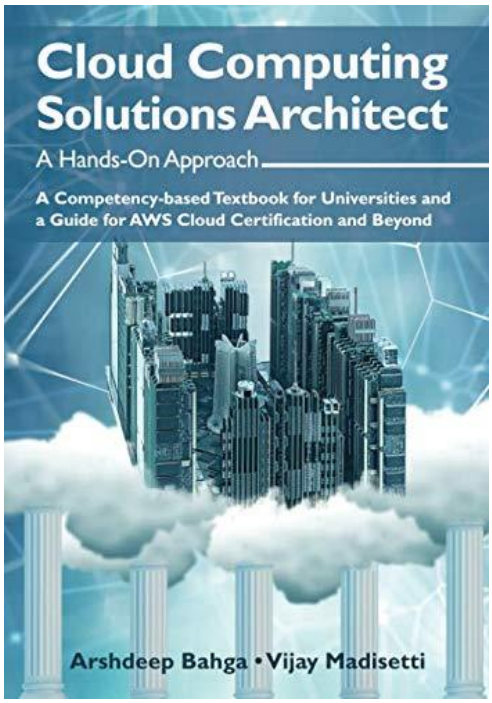

Edited Books & Collection of Papers

1. **Advances in Parallel & Distributed Simulation**
   Madisetti, V.K.; Nicol, D., Fujimoto, R. (Editors)
   San Diego, CA: SCS Press, 1991, 200 pp.

2. **Modeling, Analysis, Simulation of Computer & Telecommunications Systems**
   Madisetti, V., Gelenbe, E., Walrand, J. W. (Editors)
   Los Alamitos: CA, IEEE Computer Society Press, 1994, 425 pp.

3. **Modeling & Simulations on Microcomputers**
   Madisetti, V.K. (Editor)
   San Diego, CA: SCS Press, 138 pp. 1990.

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Editorship of Journals & Transactions

1. **IEEE Design & Test of Computers**
   Special Issue: Reengineering Digital Systems
   April – June 1999 (Vol 16, No 2)
   Madisetti, V.K (Editor)
   Los Alamitos: CA, IEEE Computer Society Press, 1999.

2. **IEEE Design & Test of Computers**
   Special Issue: Rapid Prototyping of Digital Systems
   Fall 1996 (Vol 13, No 3)
   Madisetti, V., Richards, M. (Editors)
   Los Alamitos: CA, IEEE Computer Society Press, 1994, 425 pp.

3. **IEEE Transactions on Circuits & Systems II**
   Associate Editor: 1993-1995.

4. **International Journal in Computer Simulation**
   Associate Editor: 1990-1993

5. **International Journal in VLSI Signal Processing**
   Editorial Board: 1995 - Present

Issued US Patents

[1] 11,580,540 Methods and systems for smart contracts for security and filtering, Issued February 14, 2023

[2] 11,556,928 Methods and systems for smart contracts for security and filtering, Issued January 17, 2023

[3] 11,553,039 Service meshes and smart contracts for zero-trust systems, Issued January 10, 2023

[4] 11,538,031 Method and system for identity and access management for blockchain interoperability, Issued December 27, 2022

[5] 11,528,147 Verifying integrity and secure operations of cloud-based software services, Issued December 13, 2022

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[6] 11,526,879 Method and system for zero-knowledge and identity based key management for decentralized applications, Issued December 13, 2022

[7] 11,494,764 Methods and systems for smart contracts for security and filtering, Issued November 8, 2022

[8] 11,483,622 Hybrid blockchains and streamchains using non-crypto hashes for securing audio-, video- image-, and speech-based transactions and contracts, Issued October 25, 2022

[9] 11,379,612 Method and system for securing cloud storage and databases from insider threats and optimizing performance, Issued July 5, 2022

[10] 11,316,933 Service meshes and smart contracts for zero-trust systems, Issued April 26, 2022

[11] 11,316,690 Blockchain token-based cloud orchestration architecture for discrete virtual network instances, Issued April 26, 2022

[12] 11,314,695 Method and system for real-time collaboration and annotation-based action creation and management, Issued April 26, 2022

[13] 11,283,865 Service meshes and smart contracts for zero-trust systems, Issued March 22, 2022

[14] 11,250,394 Method and system for blockchain-based gemstone ownership, identity, custody, supply-chain transfer, trading, and secure payments, Issued February 15, 2022

[15] 11,226,938 Method and system for real-time collaboration and event linking to documents, Issued January 18, 2022

[16] 11,223,877 Hybrid blockchains and streamchains using non-crypto hashes for securing audio-, video-, image-, and speech-based transactions and contracts, Issued January 11, 2022

[17] 11,222,331 Method and system for blockchain-based gemstone ownership, identity, custody, supply-chain transfer, trading, and secure payments, Issued January 11, 2022

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[18] 11,212,268 Method and system for identity and access management for blockchain interoperability, Issued December 28, 2021

[19] 11,080,240 Method and system for real-time collaboration and annotation-based action creation and management, Issued August 3, 2021

[20] 11,074,650 Method and system for blockchain-based gemstone ownership, identity, custody, supply-chain transfer, trading, and secure payments, Issued July 27, 2021

[21] 10,983,768 Method and system for persistent helpers for functions as a service (FAAS) in cloud computing environments, Issued April 20, 2021

[22] 10,853,772 Method and system for exchange of value or tokens between blockchain networks, Issued December 1, 2020

[23] 10,579,643 Method and system for tuning blockchain scalability, decentralization, and security for fast and low-cost payment and transaction processing, Issued March 3, 2020

[24] 10,503,927 Method and system for securing cloud storage and databases from insider threats and optimizing performance, Issued December 10, 2019

[25] 10,460,283 Smart contract optimization for multiparty service or product ordering system, Issued October 29, 2019

[26] 10,459,946 Method and system for tuning blockchain scalability, decentralization, and security for fast and low-cost payment and transaction processing, Issued October 29, 2019

[27] 10,402,589 Method and system for securing cloud storage and databases from insider threats and optimizing performance, Issued September 3, 2019

[28] 10,394,845 Method and system for tuning blockchain scalability for fast and low-cost payment and transaction processing, Issued August 27, 2019

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[29] 10,289,631 Method and system for tuning blockchain scalability for fast and low-cost payment and transaction processing, Issued May 24, 2019

[30] 10,255,342 Method and system for tuning blockchain scalability, decentralization, and security for fast and low-cost payment and transaction processing, Issued April 9, 2019

[31] 10,243,743 Tokens or crypto currency using smart contracts and blockchains, Issued March 26, 2019

[32] 10,204,339 Method and system for blockchain-based combined identity, ownership, integrity and custody management, Issued February 12, 2019

[33] 10,204,148 Method and system for tuning blockchain scalability, decentralization, and security for fast and low-cost payment and transaction processing, Issued February 12, 2019

[34] 10,121,143 Method and system for blockchain-based combined identity, ownership, integrity and custody management, Issued November 6, 2018

[35] 10,102,526 Method and system for blockchain-based combined identity, ownership, integrity and custody management, Issued October 16, 2018

[36] 10,102,265 Method and system for tuning blockchain scalability for fast and low-cost payment and transaction processing, Issued October 16, 2018

[37] 9,935,772 Methods and systems for operating secure digital management aware applications, Issued April 3, 2018

[38] 9,769,213 Method and system for secure digital object management, Issued September 19, 2017

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8 *International Journal of Electronic Commerce Studies*

Table 3. Patent by assignee

Applicant (Assignee)	Patents	%	Applicant (Assignee)	Patents	%
IBM	47	14.0%	Wells Fargo Bank	4	1.2%
Accenture Global Solutions	28	8.4%	Alibaba	3	0.9%
Bank of America	24	7.2%	Dell	3	0.9%
Capital One Services	12	3.6%	The Bank Of New York Mellon	3	0.9%
Mastercard	11	3.3%	The Toronto-Dominion Bank	3	0.9%
Guardtime IP Holdings Limited	8	2.4%	Verizon Patent And Licensing	3	0.9%
Madisetti Vijay K.	8	2.4%	Winklevoss I.P.	3	0.9%
Black Gold Coin, Inc.	7	2.1%	SAP	2	0.6%
Cisco	7	2.1%	Sony	2	0.6%
Acronis International	5	1.5%	Stampery	2	0.6%
Blockchain Asics	5	1.5%	Uipco	2	0.6%
Tran Bao	5	1.5%	Vmware	2	0.6%
Intel	4	1.2%	Walmart Apollo	2	0.6%
Northern Trust	4	1.2%	Wiig Rex	2	0.6%
Shocard	4	1.2%	Xage Security	2	0.6%

Ranked #8 in the list of issued US patents in the area of blockchain

Ranking in the area of US patents issued in the area of blockchain technology in 2020

Refereed Journal Publications

1. **Trends in the Electronic Control of Mine Hoists**
   *Madisetti, V. and Ramlu, M.***,**
   IEEE Transactions on Industry Applications, Vol IA-22, No. 6, November/December 1986. Pages 1105-1112

2. **Multilevel range/NEXT performance in digital subscriber loops**
   Brand, G.; Madisetti, V.; Messerschmitt, D.G.;
   Communications, Speech and Vision, IEE Proceedings I [see also IEE Proceedings-Communications] ,Volume: 136 , Issue: 2 , April 1989 Pages:169 – 174

3. **Seismic migration algorithms on parallel computers**
   Madisetti, V.K.; Messerschmitt, D.G.;
   Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Processing, IEEE Transactions on], Volume: 39 , Issue: 7 , July 1991 Pages:1642 – 1654

4. **Asynchronous algorithms for the parallel simulation of event-driven dynamical systems**
   Madisetti, V.K.; Walrand, J.C.; Messerschmitt, D.G.:
   ACM Transactions on Modeling and Computer Simulation, v 1, n 3, July 1991, Pages: 244-74

5. **Synchronization mechanisms for distributed event-driven computation**

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Madisetti, V.K.; Hardaker, D.:
ACM Transactions on Modeling and Computer Simulation, v 2, n 1, Jan. 1992,
Pages: 12-51

6. **Efficient VLSI Architectures for the Arithmetic Fourier Transform (AFT)**
Kelley, B.T.; Madisetti, V.K.;
Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Processing, IEEE Transactions on] ,Volume: 41 , Issue: 1 , January 1993
Pages:365-378

7. **The fast discrete Radon transform. I. Theory**
Kelley, B.T.; Madisetti, V.K.;
Image Processing, IEEE Transactions on ,Volume: 2 , Issue: 3 , July 1993
Pages:382 – 400

8. **The Georgia Tech digital signal multiprocessor**
Barnwell, T.P., III; Madisetti, V.K.; McGrath, S.J.A.;
Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Processing, IEEE Transactions on] ,Volume: 41 , Issue: 7 , July 1993
Pages:2471 – 2487

9. **The MIMDIX Environment for Parallel Simulation**
Madisetti, V.K.; Hardaker, D.; Fujimoto, R.M.:
Journal of Parallel and Distributed Computing, v18, no. 4, August 1993,
Pages: 473-83.

10. **LMSGEN: a prototyping environment for programmable adaptive digital filters in VLSI**
Romdhane, M.S.B.; Madisetti, V.K.;
Chapter in VLSI Signal Processing, VII, 1994.,
Pages:33 – 42

11. **Fixed-point co-design in DSP**
Egolf, T.W.; Famorzadeh, S.; Madisetti, V.K.;
Chapter in VLSI Signal Processing, VII, 1994.,
Pages:113 - 126

12. **A fast spotlight-mode synthetic aperture radar imaging system**
Madisetti, V.K.;
Communications, IEEE Transactions on ,Volume: 42 , Issue: 234 , February-April 1994
Pages:873 – 876

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13. Rapid prototyping on the Georgia Tech digital signal multiprocessor
Curtis, B.A.; Madisetti, V.K.;
Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Processing, IEEE Transactions on] ,Volume: 42 , Issue: 3 , March 1994
Pages:649 – 662

14. Low-power signaling in asymmetric noisy channels via spectral shaping
Sipitca, M.; Madisetti, V.K.;
Signal Processing Letters, IEEE, Volume: 1 , Issue: 8 , Aug 1994
Pages:117 – 118

15. A quantitative methodology for rapid prototyping and high-level synthesis of signal processing algorithms
Madisetti, V.K.; Curtis, B.A.;
Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Processing, IEEE Transactions on] ,Volume: 42 , Issue: 11 , Nov. 1994
Pages:3188 – 3208

16. Computer Simulation of Application-Specific Signal Processing Systems
Casinovi, G.; Madisetti, V.K.;
International Journal in Computer Simulation, Vol. 4, No. 4, Nov 1994.

17. System partitioning of MCMs for low power
Khan, S.A.; Madisetti, V.K.;
Design & Test of Computers, IEEE ,Volume: 12 , Issue: 1 , Spring 1995
Pages:41 – 52

18. Error correcting run-length limited codes for magnetic recording
Jaejin Lee; Madisetti, V.K.;
Magnetics, IEEE Transactions on ,Volume: 31 , Issue: 6 , Nov. 1995
Pages:3084 – 3086

19. Virtual prototyping of embedded microcontroller-based DSP systems
Madisetti, V.K.; Egolf, T.W.;
Micro, IEEE ,Volume: 15 , Issue: 5 , Oct. 1995
Pages:9 – 21

20. Constrained multitrack RLL codes for the storage channel
Lee, J.; Madisetti, V.K.;
Magnetics, IEEE Transactions on ,Volume: 31 , Issue: 3 , May 1995
Pages:2355 – 2364

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21. Rapid digital system prototyping: current practice, future challenges
Madisetti, V.K.;
Design & Test of Computers, IEEE ,Volume: 13 , Issue: 3 , Fall 1996
Pages:12 – 22

22. Conceptual prototyping of scalable embedded DSP systems
Dung, L.-R.; Madisetti, V.K.;
Design & Test of Computers, IEEE ,Volume: 13 , Issue: 3 , Fall 1996
Pages:54 – 65

23. Advances in rapid prototyping of digital systems
Madisetti, V.K.; Richards, M.A.;
Design & Test of Computers, IEEE ,Volume: 13 , Issue: 3 , Fall 1996
Pages:9

24. Combined modulation and error correction codes for storage channels
Jaejin Lee; Madisetti, V.K.;
Magnetics, IEEE Transactions on ,Volume: 32 , Issue: 2 , March 1996
Pages:509 – 514

25. Model-based architectural design and verification of scalable embedded DSP systems-a RASSP approach
Dung, L.-R.; Madisetti, V.K.; Hines, J.W.;
Chapter in VLSI Signal Processing, IX, 1996.
Pages:147 – 156

26. Low-power digital filter implementations using ternary coefficients
Hezar, R.; Madisetti, V.K.;
Chapter in VLSI Signal Processing, IX, 1996.,
Pages:179 – 188

27. All-digital oversampled front-end sensors
Romdhane, M.S.B.; Madisetti, V.K.;
Signal Processing Letters, IEEE, Volume: 3 , Issue: 2 , Feb. 1996
Pages:38 – 39

28. Modeling COTS components in VHDL
Calhoun, S., Reese, R; Egolf, T., Madisetti, V.K.;
Journal of VLSI Signal Processing, Volume: 14 , Issue: 2 , Nov 1996
Pages: 24 – 31

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29. VHDL-Based Rapid Systems Prototyping
Egolf, T.; Madisetti, V.K.;
Journal of VLSI Signal Processing, Volume: 14 , Issue: 2 , Nov 1996
Pages: 40-52

30. Interface design for core-based systems
Madisetti, V.K.; Lan Shen;
Design & Test of Computers, IEEE ,Volume: 14 , Issue: 4 , Oct.-Dec. 1997
Pages:42 - 51

31. Incorporating cost modeling in embedded-system design
Debardelaben, J.A.; Madisetti, V.K.; Gadient, A.J.;
Design & Test of Computers, IEEE ,Volume: 14 , Issue: 3 , July-Sept. 1997
Pages:24 – 35

32. On homomorphic deconvolution of bandpass signals
Marenco, A.L.; Madisetti, V.K.;
Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Processing, IEEE Transactions on] ,Volume: 45 , Issue: 10 , Oct. 1997
Pages:2499 – 2514

33. A case study in the development of multi-media educational material: the VHDL interactive tutorial
Gadient, A.J.; Stinson, J.A., Jr.; Taylor, T.C.; Aylor, J.H.; Klenke, R.H.; Salinas, M.H.; Madisetti, V.K.; Egolf, T.; Famorzadeh, S.; Karns, L.N.; Carter, H.W.;
Education, IEEE Transactions on ,Volume: 40 , Issue: 4 , Nov. 1997
Pages:17 pp.

34. Adaptive mobility management in wireless networks
Jeongwook Kim; Madisetti, V.K.;
Electronics Letters ,Volume: 34 , Issue: 15 , 23 July 1998
Pages:1453 – 1455

35. Efficient implementation of two-band PR-QMF filterbanks
Hezar, R.; Madisetti, V.K.;
Signal Processing Letters, IEEE ,Volume: 5 , Issue: 4 , April 1998
Pages:92 – 94

36. On fast algorithms for computing the inverse modified discrete cosine transform
Yun-Hui Fan; Madisetti, V.K.; Mersereau, R.M.;
Signal Processing Letters, IEEE ,Volume: 6 , Issue: 3 , March 1999
Pages:61 – 64

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Ph.D. Students Graduated

1. **Brian T. Kelley, 1992**
   VLSI Computing Architectures for High Speed Signal Processing
   Member of Technical Staff, Motorola

   Winner of Dr. Thurgood Marshall Dissertation Fellowship Award

2. **Bryce A. Curtis, 1992**
   Special Instruction Set Multiple Chip Computer for DSP
   Member of Technical Staff, IBM

3. **Jaejin Lee, 1994**
   Robust Multitrack Codes for the Magnetic Channel
   Professor, Yonsei University, Korea

4. **Mohamed S. Ben Romdhane, 1995**
   Design Synthesis of Application-Specific IC for DSP
   Director of IP, Rockwell

5. **Shoab A. Khan, 1995**
   Logic and Algorithm Partitioning on MCMs
   Professor, National University of Science & Technology, Pakistan

6. **Lan-Rong Dung, 1997**
   VHDL-based Conceptual Prototyping of Embedded DSP Architectures
   Professor, National Chaio Tung University, Taiwan

   Winner of VHDL International Best PhD Thesis Award, 1997

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   Distinguished Member of Technical Staff, Agere

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   On Homomorphic Deconvolution of Bandpass Signals
   Professor, Texas A&M University

   Winner of GIT ECE Outstanding Teaching Assistant Award

9. **Shahram Famorzadeh, 1997**
   BEEHIVE: A Distributed Environment for Adaptive Signal Processing
   Member of Technical Staff, Rockwell

10. **Timothy J. Klausutis, 1997**
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    US Air Force/Univ. of Florida

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    Temporal Design of Core-Based Systems
    Member of Technical Staff, IBM

12. **James DeBardelaben, 1998**
    Optimization Based Approach to Cost Effective DSP Design
    Research Scientist, Johns Hopkins University

    Georgia Tech ECE Faculty Award

13. **Sangyoun Lee, 1999**
    Design of Robust Video Signal Processors
    Professor, Yonsei University

    US Army Sensors Lab Research Excellence Award, 1999

14. **Rahmi Hezar, 2000**
    Oversampled Digital Filters
    Member of Technical Staff, Texas Instruments

15. **Yong-kyu Jung, 2001**
    Model-Based Processor Synthesis
    Professor, Texas A&M University

16. **Mustafa Turkboylari, 2002**
    Handoff Algorithms for Wireless Applications
    Member of Technical Staff, Texas Instruments

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    A Stereo Audio Coder with Nearly Constant Signal to Noise Ratio
    Post-Doctoral Research Associate, Northeastern University

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    Design of a Retargetable Compiler for DSP

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Member of Technical Staff, Qualcomm

US Army Sensors Lab Research Excellence Award, 1999

19. Chonlameth Aripnikanondt, 2004
System-on-Chip Design with UML
Professor, King Mongkut's University, Thailand

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20. Loran Jatunov, 2004
Performance Analysis of 3G CDMA Systems
Senior Research Scientist, Soft Networks, LLC. Now at Samsung

21. Antonios Argyriou, 2005, Research Scientist, Philips

22. Pilho Kim, 2009, Scientist, VP Technologies, Inc.

23. M. Sinnokrot, 2009, Staff Engineer, Apple

24. A. Yusuf, 2013, Professor, National University, Pakistan

Awards & Honors

1. **Jagasdis Bose National Science Talent Fellowship**, Indian Institute of Technology, Kharagpur, 1980-1984

2. **General Proficiency Prize**, Indian Institute of Technology, Kharagpur, 1984

3. **Demetri Angelakos Outstanding Graduate Student Award**, Univ. of California, Berkeley, 1989

4. **Ira Kay IEEE/ACM Best Paper Award** for Best Paper presented at IEEE Annual Simulation Symposium, 1989

5. **IBM Faculty Development Award** 1990

6. **Technical Program Chair**, IEEE Workshop on Parallel and Distributed Simulation. 1990

7. **Technical Program Chair**, IEEE MASCOTS'94

8. **NSF RI Award**, 1990

9. **VHDL International Best PhD Dissertation Advisor Award**, 1997

10. **Georgia Tech Outstanding Doctoral Dissertation Advisor Award**, 2001

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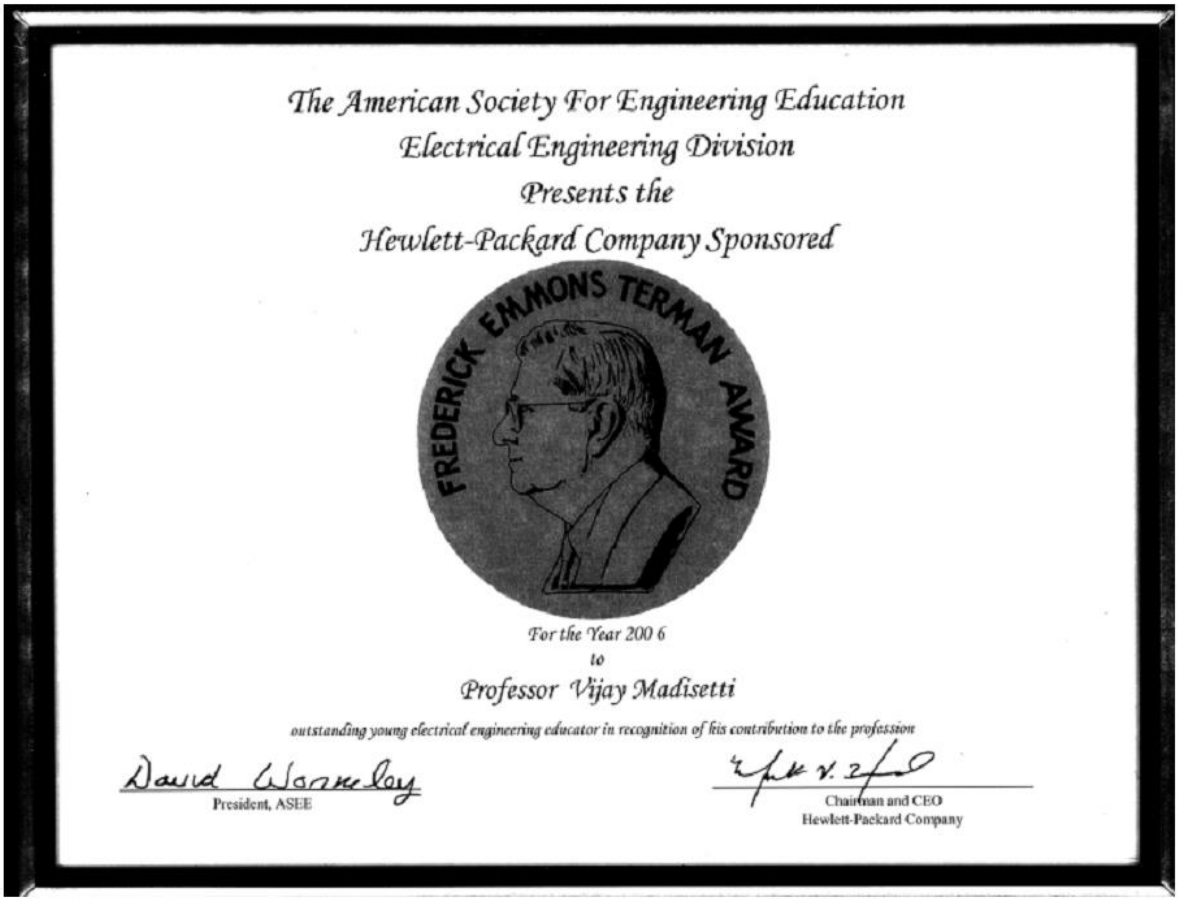
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2655	2002	Embedded Software Streaming
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2517	2002	A Dynamic Instantiated Real-Time Operating System Debugger
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2480	2001	Mobile Fleet Application based on SyD Technology
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1893	1999	Beehive
1726	1995	Very High Scale Integrated Circuit Hardware Description Language Models (VHDL Models)
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