Personal Data: A.J. Han Vinck

- Full professor in Digital Communications at the University of Duisburg-Essen, Germany, since 1990, specialising in Information and Communication theory, Coding and Network aspects in digital communications.

- Held positions of professional responsibility including the Director of the Institute for Experimental Mathematics in Essen, founding Chairman of the IEEE German Information Theory chapter, President of the IEEE Information theory Society (2003) and President of the Shannon, Leibniz and Gauß foundations for the stimulation of research and help young scientists in the field of Information theory and Digital Communications.

- Received a number of accolades including the election by the IEEE as Fellow for his "Contributions to Coding Techniques", appointed as Distinguished Lecturer for the Information Theory Society as well as for the Communications Society of the IEEE, the IEEE ISPLC 2006 Achievement award for contributions to Power Line Communications, and the SAIEE annual award for the best paper published in the SAIEE Africa Research Journal in 2008.

- Instrumental in the organisation of research forums including the IEEE Information Theory workshops and symposia, Japan-Benelux workshops on Information theory (now Asia-Europe workshop on "Concepts in Information Theory") and the International Winterschool on Coding, Cryptography and Information theory in Europe.

Born: 1949, Breda the Netherlands

Education

1969	B.Sc. Politechnical University of Dordrecht, The Netherlands
1974	M.Sc. Electrical Engineering, University of Eindhoven, The Netherlands
1980	Ph.D. Electrical Engineering, University of Eindhoven, The Netherlands

Professional

2010 – 2013	Visiting professor at the University of Johannesburg.
2011	Consulting Professor at the Harbin Institute of Technology, Harbin, China
2010 – 2012	Visiting Professor University of Johannesburg, South Africa
2008 – 2009	Distinguished lecturer for the IEEE Communication Society
2003	Adjoint professor at the Sun Yat –Sen University in Kaohsiung, Taiwan
2002	Chairman of the Communications Division of CRIS
1998 – 2001	Director of the Institute for Experimental Mathematics
1997 – 2006	Distinguished Lecturer IEEE Information Theory Society
1990 -	Full professor at the Institute for Experimental Mathematics, University of Essen, Germany and Chair: Digital Communications
1986	Guest researcher, visiting scientist at the German Space Agency, DLR, Oberpfaffenhofen, Germany
1985 -1990	Associate Professor, University of Eindhoven, The Netherlands
1980-1985	Assistant Professor, University of Eindhoven, The Netherlands.

Administration

2006-2008	Director of the Institute for Experimental Mathematics in Essen
2000-2004	Chairman for the communication division of the Institute for Critical Infrastructure, CRIS, European Union
1998-2000	Director of the Institute for Experimental Mathematics in Essen
1997-1999	Director of the Post-Graduate School on Networking, “CINEMA”,
1991-1993	Director of the Institute for Experimental Mathematics in Essen

Awards

2013	Best paper award Chinacom 2013, Guilin, China
2012	Best paper award ISPLC 2012, Beijing China
2011	Consultant Professor Harbin Institute of Technology, Harbin, China
2008	SAIEE annual award for the best paper published in the SAIEE Africa Research Journal in the year 2008.
2008-2009	Distinguished lecturer for the IEEE Communication Society

2006	IEEE fellow for “Contributions to Coding Techniques”
	IEEE ISPLC 2006 Achievement Award for contributions to Power Line Communications

Professional Society Services

2013 -	President Leibniz Foundation, the Netherlands
2003	President of the IEEE Information Theory Society
1999 – 2000	Chairman of the Benelux Information and Communication Theory Society
1997 – 2006	Board of Governors of the IEEE Information Theory Society

Recent professional activities

within IEEE

2012 -	Chairman IEEE Communication Society Steering Committee on Smart-Grid Communications
2003	President IEEE Information Theory Society (6000 members)
2003	IEEE committee member: Transnational committee, Section/Chapter support committee
2000 – 2002	Member of the IEEE “meetings and services committee”
1999	Technical Program Chairman 1999 IEEE IT Workshop on Information Theory, Kruger Park South Africa
1997 -	Member IEEE Communication society steering committee on PLC
1997 - 2006	Member Board of Governors, IEEE Information Theory Society
1997	Co-Chairman of the IEEE International Symposium on Information Theory, ISIT97, in Ulm, Germany (704 Participants)
1997	Distinguished lecturer for the IEEE Information Theory society
1997 -	Chairman of the university advisory board on computing affairs (ADV)
1996	Chairman of the Ph.D. School CINEMA (Graduiertenkolleg)Consumer and Industrial Networks for Electronic Data Exchange and Multi-Media Applications
1995 - 1997	Principal investigator of the JSPS-DFG research project on “Fundamental structures of information“ together with Prof. S. Arimoto, Tokyo, Japan
1995 - 1998	Chairman and initiator of the IEEE German IT chapter

1990	Chairman of the 1990 IEEE Information Theory Workshop in Veldhoven, The Netherlands
1980 – 1985	IEEE Student branch counsellor Eindhoven University the Netherlands

Within the university

2013	Founder of the “Leibniz” foundation
2000 -	Special Editor SAIEE for Communications and Signal Processing
1999 -	Member Advisory Board of Wiley’s Security and Communication Networks Journal
1998 -	Member Editorial Board IEICE, Japan
1998 - 1999	Chairman of the Working Community for Information and Communication Theory in the Benelux (WIC)
1995	Co-founder and chairman of the Gauß Foundation
1990	Co-founder of the Shannon Foundation
1990	Organizer of several IEEE international meetings

Major Conference Organizer

2013	Initiator and organizer of the Germany-Afrika workshops on Information and Communication Technology
2013	Co-chair International Symposium on Power Line Communications and its Applications, ISPLC, Johannesburg, South Africa
1999	Program Chairman for the IEEE IT workshop in Kruger Park, South Africa
1997	Chairman of the first International Symposium on Power Line Communications and its Applications, ISPLC Essen, Germany
1997	Chairman of the 1997 IEEE Information Theory Symposium, ULM, Germany (700 participants)
1991	Founder of the International Winterschool on Coding, Cryptography and Information Theory in Europe
1989	Initiator and organizer of the Japan-Benelux workshops on Information Theory, (now Asia-Europe workshop on “Concepts in Information Theory”)

Teaching

1990-2013	20 PHD Students
	Courses on Digital Systems, Information Theory, Channel Coding and Cryptography

International Research Project Leader / Founder

2013	Powerline Communications for the Smart Grid, BMBF and NRF year of Science project University of Johannesburg and University of Duisburg, Essen
2011-2013	Volkswagen foundation project on biometrics with American University of Armenia
2008-2009	BMBF project entitled " Coding and Modulation for Powerline Communication" with the University of Johannesburg, South Africa
2002-2004	DFG-Project –KOSSEF Information Hiding, University of Chonbuk, Chonju, South Korea
1999-2001	DFG-Project –KOSSEF Information Hiding, University of Chonbuk, Chonju, South Korea
1997-1998	DFG-Project –NSF High *Performance Computing and Gigabyte Networks*, American-German exchange program
1996-1998	INTAS-Project *Information Theory and Combinatorics*
1996-1997	JSPS-DFG – Project *Fundamental Structures of Information*, with Prof S Arimoto, Tokyo, Japan
1996-1999	EU-Project African Telecommunications Cooperation between Essen, Torino, Eindhoven, Tanzania, Zambia and Uganda
1995-1997	EU-Project SMASH *Storage for Multimedia Systems in the Home*
1994-1999	Volkswagen Foundation Cooperation with South Korean Research Institute KAIST, Prof Sang-Wu Kim

Book, Book Chapters and Journal Papers,

Book:

1. Coding Concepts and Reed-Solomon Codes, AJ Han Vinck, 206 pages, ISBN 978-3-9813030-63, Institute for Experimental Mathematics, Essen

Book Chapters

2. Block Coding Schemes Designed for Biometric Authentication, Invited chapter in : "Advanced Biometric Technologies", InTech Publisher, ISBN 978-953-307-487-0, Eds.: G. Chetty and J. Yang, pp. 299-324, August 2011, V. B. Balakirsky and A. J. Han Vinck

3. Block Coding Schemes Designed for Biometric Authentication, Invited chapter in : "Biometrics: Methods, Applications and Analysis", NOVA Publisher, ISBN 978-1-60876-412-9, Eds.: H. Schuster, W. Metzger, pp. 217-240, 2010, V. B. Balakirsky and A. J. Han Vinck

4. A Simple Scheme for Constructing Fault-Tolerant Passwords from Biometric Data,Eurasip Journal on Information Security, Volume 2010 (2010), Article ID 819376, 11 pages, Vladimir B. Balakirsky and A. J. Han Vinck

Journal Papers

2013

5. Capacity Region of a New Bus Communication Model, Entropy 2013, 15, pages 678-697, Bin Dai, A.J.Han Vinck, Yuan Luo, Zhuojun Zhuang,

6. Wiretap Channel with Action-Dependent Channel State Information, Entropy, 2013, Volume: 15, Page(s): 445-473, B Dai, A.J. Han Vinck, Yuan Luo, X. Tang

2012

7. On the relative profiles of a linear code and a subcode, Designs, Codes and Cryptography, 2012, DOI: 10.1007/s10623-012-9750-y, Zhuojun Zhuang, B Dai, Yuan Luo and A.J. Han Vinck

8. Robust Clipping for OFDM Transmissions over Memoryless Impulsive Noise Channels, IEEE Communications Letters, June 2012, pp. 1110-1113, T. Der-Feng, Y.S. Han, W.H. Mow, Li-Chung Chang, A.J. Han Vinck

9. Estimation of the entropy based on its polynomial representation, Phys. Rev. E 85, 051139 (2012) [9 pages], M. Vinck, F.P. Battaglia, V.B. Balakirsky, A. J. Han Vinck, and C.M.A Pennartz,

2011

10. Secrecy coding for the binary symmetric wiretap channel, Security and Communication Networks 4(8): 966-978 (2011), Yanling Chen and A. J. Han Vinck

11. On Cooperative Coding for Narrowband PLC Networks, AEÜ, (AEUE) (2011), doi:10.1016/j.aeue.2011, L. Lampe and A.J. Han Vinck

12. Performance of the verification for binary memoryless channels, Security Comm. Networks (2010), Published online in Wiley Online Library, (wileyonlinelibrary.com). DOI: 10.1002/sec.263, V.B. Balakirsky and A.J. Han Vinck

2010

13. On the Optimum distance Profile About Linear Block Codes, IEEE Transactions on Information theory, Vol 56, pp. 1007-1014, March 2010, ISSN: 0018-9448, Yuan Luo, A.J. Han Vinck and Yanling Chen

14. Soft Decoding of Integer Codes and Their Application to Coded Modulation, "IEICE Trans. on fundamentals, Vol. E93-A No.7, pp. 1363-1370, July 2010, Hristo Kostadinov, Hiroyoshi Morita, Noboru Iijima, A. J. Han Vinck and Nikolai Manev

15. A Lower Bound on the Optimum Distance Profiles of the Second-Order Reed–Muller Codes, "IEEE Transactions on Information Theory, pp. 4309 – 4320, September 2010, Y. Chen and A.J. Han Vinck

16. Secrecy coding for the Binary Symmetric Wiretap Channel, Security and Communication Networks, Wiley Interscience, September 2010, Chen, Y. and A.J. Han Vinck

17. Constructing Coset Codes with Optimal Same-Symbol Weight for Detecting Narrowband Interference in M-FSK Systems," IEEE Transactions on Information Theory, December 2010, pp. 6347-6353, D.J.J Versfeld, A.J.H. Vinck, J.N. Ridley and H.C. Ferreira

2009

18. Mathematical model for constructing passwords from biometrical data, "Security and Communication Networks, Wiley, (p 1-9), Published Online: Jan 14 2009 6:44AM DOI: 10.1002/sec.96, V.B. Balakirsky, A.R. Ghazaryan, and A. J. Han Vinck

2008

19. A cryptographic biometric authentication system based on genetic fingerprints, (Extended Version), "GI-Edition - Lecture Notes in Informatics (LNI), P-128 , pp. 263-276, Bonner Köllen Verlag (2008), ISBN 978-3-88579-222-2, U. Korte, M. Krawczak, U. Martini, J. Merkle, R. Plaga1, M. Niesing, C. Tiemann, and A.J. Han Vinck

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23. Combined Spectral Shaping Codes and OFDM Modulation for Narrowband Interference Channels, SAIEE Research in Africa Journal, vol 99, no 1 March 2008, pp. 11-17, ISSN 1991-1696, K. Ouahada, H.C. Ferreira, A.J. Han Vinck, A. J. Snyders and T.G. Swart

2007

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26. Coding schemes for crisscross error patterns, Wireless Personal Communications Journal, Springer Netherlands, ISSN 0929-6212, September 2007, Simon Plass, Gerd Richter and A. J. Han Vinck

27. An Algorithm for Biometric Authentication Based on the Model of Non-Stationary Random Processes, Springer, Lecture Notes in Computer Science, pp. 319-327, 2007, ISBN 978-3-540-74548-8, Vladimir B. Balakirsky , Anahit R. Ghazaryan and A. J. Han Vinck

2006

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29. Generalized Pairwise Complementary Codes with Set-Wise Uniform Interference-free Windows, IEEE Journal on Selected Areas in Communications, Jan 2006, pp. 65-74, H.H. Chen, Y-C. Yeh, X. Zhang, A. Huang, Y. Yang, J. Li. Y. Xiao, H.R. Sharif, A.J. Han Vinck, ISSN 0733-8716

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2005

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38. Guest Editorial Powerline Communications, IEEE Journal on Selected Areas in Communications, July 2006, pp.1261-1266, ISSN 0733-8716, A.J. Han Vinck

2004

39. The Determination of the Chain Good Weight Hierarchies with High Dimension,SIAM Journal on Discrete Mathematics, Volume 17, Number 2, Pages 196 - 209, 2004, Yuan Luo, Wende Chen, A. J. Han Vinck

40. Coding and Signal Space Diversity for a Class of Fading and Impulsive Noise Channels, IEEE Transactions on Information Theory, May 2004 , pp. 887-895, Jurgen Haering and A.J. Han Vinck

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2003

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44. Powerline Communications and Applications, Guest editorial, International Journal of Communication Systems, June 2003, pp. 357-361, Wiley, N Pavlidou, H. Latchman, A.J. Han Vinck, R. Newman

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2002

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2001

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53. Correction to "A Decoding Algorithm with Restrictions for Array Codes, IEEE Transactions on Information theory, Jan 2001, Christof Haslach and A.J. Han Vinck

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2000

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1999

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59. A Decoding Algorithm with Restrictions for Array Codes, IEEE Tr. on Information theory, pp. 2339-2345, November, 1999, Christof Haslach and A.J. Han Vinck

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1998

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1997

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1996

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1994

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1993

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1991 and before

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85. Syndrome Decoding of convolutional codes, IEEE Trans. on Communications, pp. 789-792, July 1975. (J.P.M. Schalkwijk and A.J. Han Vinck)

Sponsored visits of South Africa Researches at the University of Duisburg Essen

From South Africa to the Group of Prof. Vinck

1991	Prof. HC Ferreira 1 MM
1992	Francis Swarts 4 MM
1993	Albert Helberg 2.5 MM
	Louis Botha 2.5 MM
1994	Prof. HC Ferreira 3 MM
1997	Prof. HC Ferreira 1 MM
	Stefan Coetzee 3 MM
1999	Prof. HC Ferreira 1 MM
2000	Prof. HC Ferreira 4 MM
2001	Christo Kruger 3 MM
	Prof. HC Ferreira 1 MM
2003	Prof. WA Clarke
	Prof. HC Ferreira 1 MM
2004	Jaco Versfeld 3 MM
	Prof. HC Ferreira 1 MM
2005	Dr K Ouahada 3 MM
	A.Snyders
	Prof. HC Ferreira
2006	Prof. Albert Helberg 1 MM (Northwest University)
	Prof. HC Ferreira 1 MM
2007	Prof. HC Ferreira 1 MM
	A.Snyders 1 MM
2008	A.Emleh 1 MM
	Prof. Hendrik Ferreira
	A McDonald, J. Versfeld, A. De Beer
2009	A. Emleh, T. Shongwe, P. Paluncic
2010	R Heymann 1 MM
2011	T. Shongwe 3 MM
2012	T. Shongwe 12 MM

T. Sanya 6 MM
J. Versveld 1 MM Univ. Witwatersrand,
K. Ouahada 1 MM
R. & C. Heyman 1 MM
A. Emleh 1 MM