

Curriculum Vitae
Jón Atli Benediktsson
Tölvupóstfang: benedikt@hi.is

Starf: Prófessor í rafmagns- og tölvuverkfræði við Háskóla Íslands

Prófgráður:

Lokapróf í rafmagnsverkfræði, Háskóli Íslands, júní 1984.

M.S.E.E. próf Purdue University, W. Lafayette, Indiana, maí, 1987.

M.S.E.E. ritgerð: *Methods for Multisource Data Analysis in Remote Sensing.*

Ph.D. gráða í rafmagnsverkfræði, Purdue University, W. Lafayette, Indiana, desember 1990.

Ph.D. ritgerð: *Statistical Methods and Neural Network Approaches for Classification of Data from Multiple Sources.*

Áhugasvið í rannsóknum:

Fjarkönnun, greining lífeðlisfræðilegra merkja, mynsturgreining, gagnabræðsla, myndvinnsla og merkjafræði

Starfsferill:

- (1) Prófessor í rafmagns- og tölvuverkfræði við Háskóla Íslands, 1.7.2025 -
- (2) Rektor Háskóla Íslands frá 1.7. 2015 – 30.6. 2025.
- (3) Fastur kennari við Háskóla Íslands frá 1991. Prófessor frá 1996.
- (4) Aðstoðarrektor vísinda og kennslu við Háskóla Íslands frá febrúar 2009 til júlí 2015.
- (5) Þróunarstjóri og aðstoðarmaður rektors við Háskóla Íslands, september 2006-jan. 2009.
- (6) Meðlimur í Ad Hoc Graduate Faculty, University of Louisville, Louisville, nóv. 2005 -
- (7) Gistiprófessor við University of Trento, Ítalíu, 2002-2015.
- (8) Gistiprófessor við Kingston University, Kingston Upon Thames, U.K. 1999 – 2004.
- (9) Stjórnarformaður Metans hf. 1999 – 2004.
- (10) Dvaldi við rannsóknir hjá Joint Research Centre (JRC), European Commission, Ispra, Ítalíu, apríl-júlí 1998.
- (11) Dvaldi við rannsóknir við DTU, Lyngby, Danmörku, jan.-mars 1998.
- (12) Dvaldi við rannsóknir við Purdue University, W. Lafayette, Indiana, USA, jan. – ágúst 1995.
- (13) Aðstoðarmaður við rannsóknir, School of Electrical Engineering og Laboratory for Application of Remote Sensing (LARS), Purdue University, 1986-1990.
- (14) Starfsmaður Verkfræðistofnunar Háskóla Íslands og stundakennari við Háskóla Íslands 1984-85.

Viðurkenningar:

- (1) Kjörinn, International Member, National Academy of Engineering, 2025
- (2) Hlaut Ásu Wright verðlaunin, 2025
- (3) Highly Cited Researcher frá 2018 (Clarivate Analytics).

- (4) Co-Recipient of the 2024 IEEE Geoscience and Remote Sensing Society's Highest Impact Paper Award (with S. Li, W. Song, L. Fang, Y. Chen, and P. Ghamisi, "Deep Learning for Hyperspectral Image Classification: An Overview," in *IEEE Transactions on Geoscience and Remote Sensing*, vol. 57, no. 9, pp. 6690-6709, Sept. 2019, doi: 10.1109/TGRS.2019.2907932.
- (5) Outstanding Associate Editor, IEEE Access, 2023 og 2024
- (6) Hlaut gullmerki VFÍ 2023.
- (7) Fellow, Asia-Pacific Artificial Intelligence Association (AAIA), 2023.
- (8) Á lista yfir áhrifamestu vísindamenn heims frá 2018 (Clarivate Analytics).
- (9) Hlaut riddarakross hinnar íslensku Fálkaorðu 2021.
- (10) Hlaut IEEE GRSS Education Award 2020
- (11) Hlaut IEEE GRSS David Landgrebe Award 2018 fyrir einstakt framlag til myndgreininar á fjarkönnunargögnum.
- (12) Hlaut 2016-2017 Best Paper Award frá International Journal of Image and Data Fusion ásamt J. Senthilnath, Deepak Kumar og Xiaoyang Zhang fyrir greinina "A novel hierarchical clustering technique based on splitting and merging."
- (13) Hlaut Outstanding Electrical and Computer Engineer (OECE) Award - School of Electrical and Computer Engineering, Purdue University, 2016.
- (14) Hlaut 2012-2013 Best Paper Award frá International Journal of Image and Data Fusion ásamt P.R. Marpu, M. Pedernana, M. Dalla Mura, S. Peeters og L. Bruzzone fyrir greinina "Classification of hyperspectral data using extended attribute profiles based on supervised and unsupervised feature extraction techniques."
- (15) Útnefndur *Rafmangverkfræðingur ársins 2013* af IEEE og Verkfræðingafélagi Íslands.
- (16) Hlaut 2013 IEEE Geoscience and Remote Sensing Society's Highest Impact Paper Award ásamt Mathieu Fauvel, Jocelyn Chanussot og Jóhannesi R. Sveinssyni fyrir greinina "Spectral and Spatial Classification of Hyperspectral Data Using SVMs and Morphological Profiles," *IEEE Trans. on Geoscience and Remote Sensing*, vol. 46, no. 11, pp. 3804-3814, Nov. 2008.
- (17) Kjörinn *Fellow of SPIE* (International Society for Photonics and Optics) 2013 "For achievements in multi-temporal and hyperspectral remote sensing."
- (18) Hlaut Best Paper Award, IEEE Trans. on Geoscience and Remote Sensing 2011 fyrir greinina A. Villa, J.A. Benediktsson, J. Chanussot and C. Jutten, „Hyperspectral Image Classification With Independent Component Discriminant Analysis," *IEEE Transactions on Geoscience and Remote Sensing*, 2011, Volume: 49 , Issue: 12 , Part: 1, Pages: 4865 - 4876, DOI: 10.1109/TGRS.2011.2153861
- (19) Hlaut "Outstanding Service Award" frá IEEE Geoscience and Remote Sensing Society, júlí 2007.
- (20) Hlaut rannsóknarviðurkenningu Verkfræðistofnunar Háskóla Íslands, nóv. 2006.
- (21) Kjörinn *Fellow of the IEEE* (Institute of Electrical and Electronics Engineers), 1.1.2004 „For contributions to pattern recognition and data fusion in remote sensing".
- (22) Fyrstu verðlaun í samkeppninni Upp úr skúffunum 2004 (ásamt Einari Stefánssyni og Þór Eysteinnssyni).

- (23) Hlaut *IEEE Third Millennium Medal* „in recognition and appreciation of valued services and outstanding contributions,” afhent í Hawaii, 27. júlí 2000.
- (24) Hlaut viðurkenningu frá IEEE Geoscience Remote Sensing Society, fyrir „truly exceptional leadership and guidance, as Chairperson of the Data Fusion Technical Committee during the three years 1996-1999”, afhent í Hawaii, 27. júlí 2000.
- (25) Hlaut viðurkenningu IEEE fyrir stofnun Íslandsdeildar IEEE árið 2000.
- (26) Kjörinn á árinu 1999 til setu í Administrative Committee (AdCom) IEEE Geoscience and Remote Sensing Society, 2000-2002.
- (27) Kjörinn árið 1996, formaður í “Technical Committee on Data Fusion” sem er starfrækt af IEEE Geoscience and Remote Sensing Society. Endurkjörinn formaður árið 1997 og 1998.
- (28) Fellow, Australian Defence Force Academy (ADFA), Univeristy of New South Wales, August 1997.
- (29) Hlaut hvatningaverðlaun Rannsóknaráðs Íslands 1997.
- (30) Hlaut Best Paper Award - Novel Engineering Applications á ráðstefnunni ANNIE '95 í St. Louis, MO.
- (31) Hlaut Stevan J. Kristov Award, outstanding graduate student in remote sensing, Purdue University 1991.
- (32) Meðlimur í Tau Beta Phi frá 1984.
- (33) Meðlimur í Vísindafélagi Íslendinga, frá apríl 2003.

Nefndarstörf

- (1) Forseti Aurora háskóla, 2021-2024
- (2) Í stjórn Aurora háskóla, 2018-2025
- (3) Formaður IEEE Geoscience and Remote Sensing Fellow Evaluation Committee 2019-2020.
- (4) Í IEEE Geoscience and Remote Sensing Fellow Evaluation Committee 2017-2020.
- (5) Í IEEE Fellow Committee, 2014-2015
- (6) 2011-2012 Forseti (President), IEEE Geoscience and Remote Sensing Society
- (7) Í Vísinda- og tækniráði 2012-2021.
- (8) Varaforseti (Executive Vice President) – IEEE Geoscience and Remote Sensing Society 2010
- (9) Í stjórn Innovit 2010-2011.
- (10) Í stjórn Orkuvarða frá 2009-2010.
- (11) Í IEEE GRSS AdCom frá 2000. Vice President of Technical Activities (2002) og Vice President of Professional Activities (2008-2009).
- (12) Í stjórn Oxymap ehf. frá júlí 2008.
- (13) Í stjórn Keilis, frá júní 2007-2012. Varaformaður stjórnar á þessum tíma.
- (14) Formaður stjórnar Rannsóknánámssjóðs frá des. 2006 til 1. feb. 2009.
- (15) Formaður gæðanefndar háskólaráðs Háskóla Íslands, 1. júlí 2006 – 2014.
- (16) Formaður heildarstefnuhóps í stefnumótunarstarfi Háskóla Íslands, des. 2005 – mars. 2006
- (17) Formaður starfshóps rektors um viðbrögð við úttektum á Háskóla Íslands, júlí 2005 – nóv. 2005.
- (18) Sat í vísinda- og tækniráði frá stofnun, 8. apríl 2003, til apríl 2006. Sat bæði í vísindanefnd og tækninefnd.

- (19) Formaður vísindanefndar háskólaráðs Háskóla Íslands frá 12.7 1999 til 31.12.2005. Sat í nefndinni frá sept. 1994 til ársloka 2005.
- (20) Sat í Advisory Panel of the Physical and Engineering Science & Technology (PST) Sub-Programme, NATO, Bruxelles, frá 1. Jan., 2003 til 2004.
- (21) Sat í Nordisk Forskning Politisk Raad 2004.
- (22) Formaður og stofnandi Íslandsdeildar IEEE (the IEEE Iceland Section), 2000-2004.
- (23) Formaður forvinnuhóps Menntamálaráðuneytisins um *tækni- og upplýsingamennt* við endurskipulagningu námsskráa í grunn- og framhaldsskólum
- (24) Formaður rafmagns- og tölvuverkfræðiskorar 1997-1999.
- (25) Formaður rafmagnsverkfræðiskorar skólaárið 1993-1994.
- (26) Sat í úthlutunarnefnd aðstoðarmannasjóðs Háskóla Íslands frá 1996-2000.
- (27) Sat í fagráði Rannís um umhverfis- og náttúruvísindi frá 1996-2000.
- (28) Sat í stjórn Umhverfisstofnunar Háskóla Íslands frá fyrri hluta árs 2002 til 2005.
- (29) Sat í stjórn Sjávarútvegsstofnunar Háskóla Íslands frá fyrri hluta árs 2002 til 2005.

Leiðbeinandi brautskráðra PhD nema:

1. Mathieu Fauvel
2. Yuliya Tarabalka
3. Guilia Troglio
4. Mauro Dalla Mura
5. Alberto Villa
6. Sergio Bernabe Garcia
7. Nicola Falco
8. Pedram Ghamisi
9. Gabrielle Cavallaro

Andmælandi við doktorsvarnir

- (1) Andmælandi við doktorsvörn við Australian Defence Academy, University of New South Wales, Australia, júní 1995.
- (2) Andmælandi við doktorsvörn við Australian Defence Academy, University of New South Wales, Australia, ágúst 1996.
- (3) Andmælandi við doktorsvörn við Australian Defence Academy, University of New South Wales, Australia, sept. 1996.
- (4) Andmælandi við doktorsvörn við Nanyang Technological University, Singapore, des. 1997.
- (5) Andmælandi við doktorsvörn við University of Manitoba, Canada, mars 2001.
- (6) Andmælandi við doktorsvörn við University of Trento, Ítalíu, desember 2002.
- (7) Andmælandi við doktorsvörn við DTU, Lyngby, Danmörku, september 2003.
- (8) Andmælandi við doktorsvörn við Háskólann í Osló, Noregi, október 2007.
- (9) „External Examiner” við doktorspróf, University of New South Wales, Australia, maí 2013. Nemandi: Guangyang Zhang
- (10) „External Examiner” við doktorspróf, University of Sydney, Australia, júní 2013. Nemandi: Sven Schneider
- (11) University of Extremadura, Spain, Jan. 2014. Student: Inmaculada Dopido
- (12) INPG, Grenoble, France, Oct. 2014. Student: Junshi Xia.

- (13) DTU, Denmark, Nov. 2014. Student: Jacob Schack Vestergaard.

Seta í doktorsnefndum

- (1) University of Trento, Trento, Italiú, mars 2006 (formaður prófnefndar). Nemandi: Mingmin Chi.
- (2) University of Trento, Trento, Italiú, mars 2006 (formaður prófnefndar). Nemandi: Anelia Grigorova.
- (3) Univeristy of Louisville, Louisville, Kentucky, nóvember 2005. Nemandi: Refaat M. Mohamed.
- (4) Technical University of Lisbon, June 2010. Student: Jun Li.
- (5) ParisTech, June 2012. Nemandi: Santiago Velasco-Forero.
- (6) Háskóli Íslands, 2012. Nemandi: Sveinn Hákon Harðarson.

Störf í ritnefndum vísindatímarita og ráðgjöf fyrir sjóði, stjórnvöld og bókaforlög

- (1) Senior Editor, *Proceedings of IEEE*, 2021-.
- (2) Í ritstjórn *Proceedings of IEEE*, 2014-2019.
- (3) Í ritstjórn, *Remote Sensing*, 2015-
- (4) Meðritstjóri (Associate Editor), *IEEE Access*, 2013-
- (5) Evaluator, Italian Evaluation of Research Quality exercise (VQR 2004-2010)
- (6) Ritstjóri (Special Issue Guest Editor) að sérhefti ritrýnda fræðiritsins *Proceedings of IEEE* um fjarkönnun með mikilli upplausn (Special Issue on Very High Resolution Remote Sensing), vol. 101, no. 3, mars 2013.
- (7) Í alþjóðlegri ritstjórn *International Journal of Image and Data Fusion*, 2009-
- (8) Formaður stjórnunarnefndar *IEEE Journal of Selected Topics in Applied Earth Observation*. 2007-2010
- (9) Ritstjóri (Editor), *IEEE Transactions on Geoscience and Remote Sensing*, frá 1.1.2003 – 31.12.2008
- (10) Ritstjóri (Special Issue Guest Editor) að sérhefti ritrýnda fræðiritsins *IEEE Transactions on Geoscience and Remote Sensing* um vinnslu fjarkönnunarmyndna frá þéttbýli (Special Issue on Urban Remote Sensing by Satellite), vol. 41, no. 9, September 2003.
- (11) Ritstjóri (Special Issue Guest Editor) að sérhefti ritrýnda fræðiritsins *IEEE Transactions on Geoscience and Remote Sensing* um gagnabréðslu (Special Issue on Data Fusion), vol. 37, no. 3, May 1999.
- (12) Meðritstjóri (Associate Editor), *IEEE Geoscience and Remote Sensing Letters*, frá okt. 2003 til 2022.
- (13) Meðritstjóri (Associate Editor), *IEEE Transactions on Geoscience and Remote Sensing*, frá 1.1 1999 til 31.12.2002 og 1.1.2009-2022
- (14) Hefur frá 1987 stundað ritrýni fyrir m.a. eftirfarandi tímarit: *IEEE Transactions on Neural Networks*, *IEEE Transactions on Geoscience and Remote Sensing*, *IEEE Transactions on Systems, Man and Cybernetics*, *Information Fusion*, *International Journal of Remote Sensing*, *International Journal of Neural Systems*, *Canadian Journal of Remote Sensing*, *Computer Vision, Graphics and Image Processing*, *Computers and Geoscience*, *Photogrammetric Engineering and Remote Sensing*,

- Geographical Systems, Remote Sensing of the Environment* og *Optical Engineering*.
- (15) Hefur lesið yfir proposal að bókum fyrir ýmsa útgefendur, þ.á.m. John Wiley & Sons, Kluwer Academic Publishers.
 - (16) Hefur lesið yfir umsóknir fyrir m.a. *The National Science Foundation (NSF)*, *Italian Ministry for University and Research (MURST)*, *The Australian Research Council (ARC)*, *Norska Rannsóknarráðið* og *Research Grant Council, Hong Kong*.

Boðserindi:

- (1) "Mathematical Morphology for High Resolution Remote Sensing Images." Plenum talk at the 6th Chinese Conference on Pattern Recognition, Changsha, China, Nov. 14, 2014.
- (2) "Morphological and Attribute Profiles in Classification of Hyperspectral Images," Sun Yat Sen University, Guanzhou, China, November 18, 2014.
- (3) "Morphological and Attribute Profiles for Classification of Hyperspectral Images," Methodological Aspects of Hyperspectral Imaging (Mahi 2013) Workshop, Nice, France, Oct. 14, 2013.
- (4) "Morphological Profiles in Classification of Very High Resolution Remote Sensing Imagery, InfoTech Lecture Series, University of Florida, Gainesville, March 29, 2013.
- (5) "Classification of Remote Sensing Images Using Morphological Profiles," NCU Mini Workshop on Remote Sensing, National Central University, Zhongli, Taiwan, Jan. 17, 2013.
- (6) "Morphological Profiles in Classification of Remote Sensing Imagery," University of Extremadura, Caceres, Spain, July 12, 2012.
- (7) "Classification of Remote Sensing Data From Multiple Sources," (Plenary talk) ISPRS/IEEE International Workshop on Multi-platform Multi-sensor Remote Sensing and Mapping, which was held in Xiamen, China, Jan. 10-12, 2011.
- (8) "Classification of urban remote sensing imagery based on mathematical morphology" (Plenary talk), Joint Urban Remote Sensing Event (JURSE 2011) Munich, Germany, April 11.-13. April 2011.
- (9) "Hierarchical Analysis of Remote Sensing Data: Morphological Attribute Profiles and Binary Partition Trees," (Plenary talk) International Symposium on Mathematical Morphology (ISMM 2011), Intra, Italy, July 6-8 2011.
- (10) "Classification of Remote Sensing Images Using Morphological Profiles," IEEE Geoscience and Remote Sensing Society (IEEE GRS-S), Japan Chapter, University of Tokyo, Aug. 31, 2010.
- (11) "Classification of Remote Sensing Images with Attribute Profiles and Extended Attribute Profiles," 32nd Symposium on Remote Sensing for Environmental Sciences (RSES), August 29, 2010, Shikanoshim, Fukuoka, Japan.
- (12) "Classification of Remote Sensing Image Urban Data based on Morphological Transformations," Hiroshima University, Aug. 27, 2010.
- (13) "Classification of Panchromatic and Hyperspectral Images Using Morphological Profiles," NOBIM 2010, Tromsø, June 21, 2010.
- (14) "Fusion of Multiple Classifiers for Remote Sensing Data," INRIA, Sophia Antipolis, France, September 22, 2008.
- (15) "Classification of Remote Sensing Data Based on Decision Fusion," University of Oslo, October 30, 2007.

- (16) "Decision Fusion of Multitemporal SAR and Multispectral Imagery for Improved Land Cover Classification," Keynote speaker, Mapping Without the Sun, Chengdu, China, September 25, 2007.
- (17) "Multiple Classifier Systems for Remote Sensing," Fudan University, Shanghai, China, September 22, 2007.
- (18) "Decision Fusion for Classification of Remote Sensing Data," Jilin University, Chanchun, China, September 19, 2007.
- (19) "Multiple Classifier Systems in Remote Sensing: From Basics to Recent Developments," Invited speaker, MCS 2007, Prague, Czech Republic, May 23, 2007.
- (20) "Decision Level Fusion for Classification of Remote Sensing Data from Urban Areas," Center for Space and Remote Sensing Research, National Central University, Chung-Li, Taiwan, November 29, 2006.
- (21) "Automatic Retinal Oximetry" Department of Electrical Engineering, National Taipei University of Technology (NTUT), Taipei, Taiwan, November 30, 2006.
- (22) "Classification of Morphological Profiles in Urban Imagery based on Decision Level Fusion" International Workshop on Modelling and Data Analysis in Environmentrics, Geostatistics and Related Areas, Kyushu University, Fukuoka, Japan, November 17, 2005.
- (23) "Classification of Remote Sensing Data from Multiple Sources," Environmental Statistics, Theory and Practice, The Institute of Statistical Mathematics, Tokyo, November 22, 2005.
- (24) "Classification of Remote Sensing Imagery with High Spatial Resolution," European Symposium on Remote Sensing, Conference on Image and Signal Processing XI, Bruges, Belgium, September 20, 2005.
- (25) "Classification of Hyperspectral ROSIS Data from Urban Areas," Recent Advances in Space Technologies (RAST 2005), Istanbul, Turkey, June 9, 2005.
- (26) "Classification Approaches for Hyperspectral Imagery with High Spatial Resolution," Department of Information and Communication Technology, University of Trento, March 9, 2005.
- (27) "Classification of Hyperspectral Image Data of High Spatial Resolution," National Central University, Taiwan, Dec. 1, 2004.
- (28) "Classification of Hyperspectral Image Data," Drexel University, Philadelphia, PA, Sept. 14, 2004.
- (29) "Classification of High Resolution Images from Urban Areas," MIT Lincoln Lab., Lexington, MA, April 27, 2004.
- (30) "Classification of High Resolution Images from Urban Areas, Boston University, Boston, MA, April 26, 2004.
- (31) "Classification of Remotely Sensed Data from Urban Areas," University of Westminster, London, March 3rd, 2004.
- (32) "Classification Methods for Multisource Remote Sensing Data," Opening Talk, Session on Data Fusion, The 2003 Tyrrhenian International Workshop on Remote Sensing, Sept. 15, Elba, Italy.

- (33) "Multiple Classifiers for Multisource Remote Sensing Data," Informatics and Mathematical Modelling, Denmark's Technical University (DTU), Lyngby, Denmark, Sept. 2, 2003.
- (34) "Classification of Multisource Remote Sensing Data by Multiple Classifiers", University of Trento, March 19, 2003.
- (35) "Multiple Classifiers in Multisource Classification", Department of Electrical and Electronic Engineering, Imperial College, London, Jan. 28, 2003.
- (36) "Multiple Classifiers in Classification of Multisource Remote Sensing Data," Department of Electrical Engineering and Computer Science, University of Kansas, Lawrence, Oct. 22, 2002.
- (37) "Review of Applications of Wavelets in Speckle Reduction and Enhancement of SAR Images," Conference on Signal Processing in Remote Sensing VII, 8th International Symposium on Remote Sensing, Toulouse, France, Sept. 19, 2001.
- (38) "Data Fusion and Feature Extraction in the Wavelet Domain," Geo-Spatial Knowledge Processing for Natural Resource Management, University of Insubria, Varese, Italy, June 28, 2001
- (39) "Decision Fusion Methods for Classification of Multi-source Remote Sensing Data," University of Pavia, Pavia, Italy, June 26, 2001.
- (40) "Statistical and Neuro-Fuzzy Classification of Multi-source Remote Sensing Data," School of Computing and Information Systems, Kingston University, U.K., April 11, 2000.
- (41) "Neuro-Fuzzy and Soft Computing in Classification of Remote Sensing Data," 1999 EUROPTO Conference on Signal Processing in Remote Sensing V, Florence, Italy, Sept. 23, 1999.
- (42) "Data Fusion", 1998 EUROPTO Conference on Signal Processing in Remote Sensing IV, Barcelona, Spain, Sept. 22, 1998.
- (43) "Classification and Feature Extraction of Hyperdimensional Remote Sensing Data", Dipartimento di Ing. Biofisica ed Elettronica, University of Genova, May 25, 1998.
- (44) "Classification of Hyperdimensional Remote Sensing Data," Institute of Mathematical Modelling, Denmark's Technical University, Feb. 27, 1998.
- (45) "Feature Extraction for Hyperdimensional Remote Sensing Data," Institute of Mathematical Modelling, Denmark's Technical University, Feb. 18, 1998.
- (46) "Classification of Remote Sensing Data with a Combination of Classifiers," Applied Physics Lab., University of Washington, Seattle, Feb. 11, 1998.
- (47) "Classification of Multisource Remote Sensing and Geographic Data with a Combination of Classifiers," Institute of Mathematical Modelling, Denmark's Technical University, Jan. 28, 1998.
- (48) "Multistage Classification of Multisource Remote Sensing and Geographic Data," School of Electrical Engineering, University College, University of New South Wales, Canberra, Australia, Aug. 21, 1997.
- (49) "Classification and Feature Extraction of Hyperdimensional Data," School of Electrical Engineering, University College, University of New South Wales, Canberra, Australia, Aug. 21, 1997.

- (50) "Multistage Classification of Multisource Remote Sensing and Geographic Data," Department of Geomatics, University of New South Wales, Sydney, Australia, Aug. 20, 1997.
- (51) "Multistage Statistical and Neural Classifiers Optimized by Linear and Non-Linear Methods", Massachusetts Institute of Technology, May 16, 1997.
- (52) "Multistage Classifiers Optimized by Linear and Non-Linear Methods," Joint Research Centre, Ispra, Italy, Dec. 2, 1996.
- (53) "Data Fusion of Multisource and Hyperdimensional Remote Sensing Data," COMPARES Concertation Meeting, University of Cagliari, Italy, Oct. 24, 1996.
- (54) "Multistage Classifiers Optimized by Neural Networks and Genetic Algorithms," World Congress of Non-Linear Analysts, Athens, Greece, July 15, 1996.
- (55) "Analysis of Very-High Dimensional Data," World Congress of Non-Linear Analysts, Athens, Greece, July 15, 1996.
- (56) "Hybrid Classifiers", School of Electrical and Computer Engineering, Purdue University, W. Lafayette, IN, May 22, 1996.

Skipulagning ráðstefna:

- (1) General Chair, Nanocom 2018, Reykjavik, Sept. 6-9, 2018.
- (2) General Chair, International Symposium on Mathematical Morphology (ISMM), Reykjavik, May 27-29, 2015.
- (3) Program Committee Member, CIARP 2013, the 19th Iberoamerican Congress on Pattern Recognition, Havana, 2.-5. nóv. 2014.
- (4) Session Organizer, Technical Program Committee Member IGARSS 2014, Quebec City, Canada, July 13-18, 2014.
- (5) Technical Program Committee Member, IEEE Sixth Workshop on Hyperspectral Image and Signal Processing IEEE WHISPERS 2014, Lausanne, Switzerland, June 24-27, 2014
- (6) Conference Co-Chair, SPIE Conference on Image and Signal Processing for Remote Sensing Amsterdam, Netherlands, September 2014.
- (7) Session Organizer, Technical Program Committee Member IGARSS 2013, Sydney, Australia, July 21-26, 2013.
- (8) Conference Co-Chair, SPIE Conference on Image and Signal Processing for Remote Sensing Dresden, Germany, September 2013.
- (9) Program Committee Member, CIARP 2013, the 18th Iberoamerican Congress on Pattern Recognition, Havana, Nov. 20-23, 2013.
- (10) Technical Program Committee Member, IEEE Fifth Workshop on Hyperspectral Image and Signal Processing, WHISPERS 2013, Gainesville, Florida, June 25-28, 2013
- (11) Program Committee Member, ICPRAM 2013, Loire Valley, Frakklandi March 6-8, 2013.
- (12) Technical Program Committee Member, IEEE fourth Workshop on Hyperspectral Image and Signal Processing WHISPERS 2013, Gainesville, Florida, June, 2013.
- (13) Scientific Committee Member, 2013 Multiple Classifier Systems Workshop (MCS 2013), Nanjing, China, May 15-17 2013

- (14) Program Committee Member, ICPRAM 2013, Barcelona, Spain, Feb. 15-18, 2013.
- (15) Technical Program Co-Chairman, Tyrrhenian Workshop 2012 on Advances in Radar and Remote Sensing, Naples, Italy, Sept. 12-14, 2012.
- (16) Program Committee Member, CIARP 2012, the 17th Iberoamerican Congress on Pattern Recognition, Buenos Aires, Sept. 3-6, 2012.
- (17) Technical Program Committee Member, IEEE fourth Workshop on Hyperspectral Image and Signal Processing WHISPERS 2012, Shanghai, China, June 4-7, 2012.
- (18) Conference Co-Chair, SPIE Conference on Image and Signal Processing for Remote Sensing Prague, Edinburgh, Scotland, September 24-27, 2012.
- (19) Technical Program Committee Member IGARSS 2012, Munich, Germany, July 22-28, 2012.
- (20) Program Committee Member, ICPRAM 2012, Algarve, Portugal, Feb. 5-7, 2012.
- (21) Program Committee Member, CVRS 2011 - IEEE/ISPRS workshop on Computer Vision for Remote Sensing of the Environment, Nov. 7, 2011, Barcelona, Spain.
- (22) Scientific Committee Member, 2011 Multiple Classifier Systems Workshop (MCS 2011), Napoli, Italy, June 15-17 2011.
- (23) Technical Program Committee Member IGARSS 2011, Vancouver, July 21-27, 2011.
- (24) Technical Program Committee Member, IEEE third Workshop on Hyperspectral Image and Signal Processing WHISPERS 2011, Lisbon, Portugal, July 6-9, 2011.
- (25) Scientific Committee Member, Multitemp 2011, Trento, Italy, July 12-14, 2011.
- (26) Conference Co-Chair, SPIE Conference on Image and Signal Processing for Remote Sensing Prague, Czech Republic, Monday-Wednesday 19 - 21 September 2011.
- (27) General Chair, IEEE Second Workshop on Hyperspectral Image and Signal Processing, Reykjavik, June 14-16, 2010
- (28) Conference Co-Chair, SPIE Remote Sensing 2010 - Image and Signal Processing for Remote Sensing, Toulouse, France, Sept. 20-22, 2010.
- (29) Technical Program Committee Member - IEEE 2010 Geoscience and Remote Sensing Symposium (IGARSS 2010), Honolulu Hawaii, July 25-30, 2010.
- (30) Scientific Committee Member - 2010 Multiple Classifier Systems Workshop (MCS 2010), Nile University, Egypt, 7.-9. júlí 2010
- (31) General Chair (with J. Kittler and F. Roli), 7th International Workshop on Multiclassifier Systems (MCS 2009), Reykjavik, Iceland, June 10-12, 2009.
- (32) Co-Chairman, European Symposium on Remote Sensing, Conference on Image and Signal Processing (RS07), September 1-3, 2009, Berlin, Germany.
- (33) Technical Committee, 5th GRSS/ISPRS Joint Workshop on Remote Sensing over Urban Areas (Urban 2009), Shanghai, China, May 20-22, 2009.
- (34) Scientific Committee, Fifth International Workshop on the Analysis of Multitemporal Remote Sensing Images (Multitemp 2009), Mystic, Connecticut, July 28-30, 2009.
- (35) General Co-Chair, IEEE International Symposium on Wireless Communication Systems 2008 (ISWCS'08), Reykjavík 21. – 24. okt. 2008.
- (36) Technical Program Committee, International Symposium on Geoscience and Remote Sensing (IGARSS '2008), Boston, MA, USA.

- (37) Co-Chairman, European Symposium on Remote Sensing, Conference on Image and Signal Processing (RS07), September 15-19, 2008, Cardiff, Wales.
- (38) Workshop Chair, Sixth Euro American Workshop on Information Optics at Grand Hotel Reykjavik, Iceland, 25 – 30 June 2007.
- (39) Program Committee, International Symposium on Geoscience and Remote Sensing (IGARSS '2007), Barcelona, Spain, July 2007.
- (40) Review Committee, 2007 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2007), April, Honolulu, HI.
- (41) Program Committee, 2007 IEEE Workshop on Machine Learning for Signal Processing, Thessaloniki, Greece, August 27-29, 2007.
- (42) International Program Committee, 3rd International Conference on Recent Advances in Space Technologies (RAST 2007), Istanbul, Turkey, June 14-16, 2007.
- (43) Technical Committee, 4th GRSS/ISPRS Joint Workshop on Remote Sensing over Urban Areas (Urban 2007), Paris, France, April 11-13, 2007.
- (44) Scientific Committee, 6th International Workshop on Multiclassifier Systems (MCS 2007), Prague, Czech Republic, May 2007.
- (45) Co-Chair, Workshop Chair, Sixth Euro American Workshop on Information Optics at Grand Hotel Reykjavik, Iceland, 25 – 30 June 2007.
- (46) Co-Chairman, European Symposium on Remote Sensing, Conference on Image and Signal Processing XII, Stockholm, September 13-14, 2006.
- (47) Program Committee, 5th International Forum on Multimedia and Image Processing (IFMIP), World Automation Congress (WAC) 2006, Budapest, Hungary, July 24-26, 2006.
- (48) Scientific Committee, 4th International Workshop on Pattern Recognition in Remote Sensing (PRRS), Hong Kong, August 2006.
- (49) General Chairman, IEEE 7th Nordic Signal Processing Symposium (NORSIG 2006), Reykjavik, Iceland, June 2006.
- (50) Technical Program Committee, 2006 IEEE Workshop on Machine Learning for Signal Processing, Maynooth, Ireland, September 6-8, 2006.
- (51) Technical Committee, Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP 2005), Dec. 13-15, 2005.
- (52) Scientific Committee, 9th International Symposium on Physical Measurements and Signatures in Remote Sensing (ISPMS), Beijing, China, Oct. 2005.
- (53) Technical Program Committee, 2005 IEEE Workshop on Machine Learning for Signal Processing, Mystic, Connecticut, Sept. 28-30, 2005.
- (54) Co-Chairman, European Symposium on Remote Sensing, Conference on Image and Signal Processing XI, Bruges, Belgium, September 20-22, 2005.
- (55) Program Committee, International Symposium on Geoscience and Remote Sensing (IGARSS '2005), Seoul, Korea, July 2005.
- (56) Scientific Committee, 9th International Symposium on Physical Measurements and Signatures in Remote Sensing (ISPMS), Beijing, China, Oct. 2005.
- (57) Technical Program Committee, 2005 IEEE Workshop on Machine Learning for Signal Processing, Mystic, Connecticut, Sept. 28-30, 2005.
- (58) Scientific Committee, 6th International Workshop on Multiclassifier Systems (MCS 2005), Monterey, CA, June 2004.

- (59) Scientific Committee, Second International Workshop on the Analysis of Multitemporal Remote Sensing Images (Multitemp 2005), Biloxi, Mississippi, May 2005.
- (60) Technical Committee, 3rd GRSS/ISPRS Joint Workshop on Remote Sensing over Urban Areas (Urban 2005), Tempe, Arizona, March 2005.
- (61) Co-Chairman, European Symposium on Remote Sensing, Conference on Image and Signal Processing X, Canary Island, September 2004.
- (62) Program Committee, International Symposium on Geoscience and Remote Sensing (IGARSS '2004), Anchorage, Alaska, Sept. 2004.
- (63) Scientific Committee, 3rd International Workshop on Pattern Recognition in Remote Sensing (PRRS), Kingston, UK, August 2004.
- (64) Scientific Committee, 5th International Workshop on Multiclassifier Systems (MCS 2004), Cagliari, Italy, June 2004.
- (65) Co-Chairman, IEEE Workshop on Advances in Remote Sensing, Oct. 27-28, NASA Goddard Visitor Center, Washington DC, USA, 2003
- (66) Technical Program Committee, 2003 Tyrrhenian International Workshop on Remote Sensing September 15-18, 2003, Elba Island, Italy.
- (67) Program Committee, International Symposium on Geoscience and Remote Sensing (IGARSS '2003), Toulouse, France, June 2003.
- (68) Scientific Committee, 12 NBC, the Nordic Baltic Conference on Biomedical Engineering and Medical Physics, Reykjavik, June 2002.
- (69) Co-Chairman, European Symposium on Remote Sensing, Conference on Image and Signal Processing VIII, Crete, September 2002.
- (70) Technical Committee, IEEE/ISPRS Joint Workshop on Remote Sensing over Urban Areas (Urban 2003), Berlin, Germany, May 2003.
- (71) Scientific Committee, Second International Workshop on the Analysis of Multitemporal Remote Sensing Images (Multitemp 2003), Trento, Italy, September 2003.
- (72) Scientific Committee, 4th International Workshop on Multiclassifier Systems (MCS 2002), Cambridge, England, June 2003.
- (73) Organizer and chairman of session on Image Processing Techniques at the International Symposium on Geoscience and Remote Sensing, Toronto, Canada, June 2002.
- (74) Scientific Committee, 2nd International Workshop on Pattern Recognition in Remote Sensing (PRRS), Niagara Falls, Canada, August 2002.
- (75) Program Committee, International Symposium on Geoscience and Remote Sensing (IGARSS '2002), Toronto, Canada, June 2002.
- (76) Scientific Committee, 3rd International Workshop on Multiclassifier Systems (MCS 2002), Sardinia, Italy, June 2002.
- (77) Program Committee, Fusion of Earth Data, Sophia Antipolis, France, Jan. 2002.
- (78) Technical Committee, IEEE/ISPRS Joint Workshop on Remote Sensing over Urban Areas (Urban 2001), Rome, Italy, Nov. 2001.
- (79) Scientific Committee, First International Workshop on the Analysis of Multitemporal Remote Sensing Images (Multitemp 2001), Trento, Italy, September 2001.

- (80) Co-Chairman, European Symposium on Remote Sensing, Conference on Image and Signal Processing VII, Toulouse, France, September 2001.
- (81) Program Committee, International Symposium on Geoscience and Remote Sensing (IGARSS '2001), Sydney, Australia, July 2001.
- (82) Scientific Committee, 2nd International Workshop on Multiclassifier Systems (MCS 2001), Cambridge, U.K., July 2001
- (83) Program Committee, Geo-Spatial Knowledge Processing for Natural Resource Management, University of Insubria, Varese, Italy, June 2001
- (84) Scientific Committee, 1st International Workshop on Multiclassifier Systems (MCS 2000), Cagliari, Italy., June 2000.
- (85) GRSS Representative, The First International Microwave Radiometer Calibration Workshop, October 30-31, University of Maryland Inn and Conference Center, Maryland, USA.
- (86) Scientific Committee, 1st International Workshop on Pattern Recognition in Remote Sensing (PRRS), Andorra, Spain, August 2000.
- (87) Co-Chairman, European Symposium on Remote Sensing, Conference on Image and Signal Processing VI, Barcelona, Spain, September 2000.
- (88) Program Committee, International Symposium on Geoscience and Remote Sensing (IGARSS '2000), Hawaii, USA, July 2000.
- (89) Program Committee, Fusion of Earth Data, Sophia Antipolis, France, Jan. 26-28, 2000.
- (90) Co-Chairman, European Symposium on Remote Sensing, Conference on Image and Signal Processing V, Florence, Italy, September 1999.
- (91) Program Committee, International Symposium on Geoscience and Remote Sensing (IGARSS '99), Hamburg/Germany, June/July 1999.
- (92) Workshop on Intelligent Techniques for Spatio-Temporal Data Analysis in Environmental Applications Chania, Greece, July 1999.
- (93) Program Committee, International Symposium on Geoscience and Remote Sensing (IGARSS '98), Seattle, WA, July 1998.
- (94) Scientific Committee, European Symposium on Remote Sensing, Conference on Image and Signal Processing IV, Barcelona, Spain, September 1998.
- (95) Organizer and chairman of a session on Data Fusion at the International Symposium on Geoscience and Remote Sensing, Singapore, August 4 - 8, 1997
- (96) Organizer of a session on Data Fusion at the International Symposium on Geoscience and Remote Sensing, Seattle, WA, July, 1998.
- (50) Organizer and chairman of session on Data Fusion at the International Symposium on Geoscience and Remote Sensing, Hamburg, Germany, June/July 1999.

Meðlimur í fagfélögum:

Fellow, The Institute of Electrical and Electronics Engineers, Inc. (IEEE),
 Fellow, The International Society for Photonics and Optics (SPIE)
 Félagi í Verkfræðingafélagi Íslands
 Félagi í Vísindafélagi Íslendinga