Curriculum Vitae

Personal Information

Name:
Nikola Kirilov Kasabov
nkasabov@aut.ac.nz
https://kedri.aut.ac.nz/staff/staff-profiles/professor-nikola-kasabov

Qualifications

Qualification name:	Institution:	Date of Graduation:
PhD (Math. Sciences)	Technical University (TU), Sofia	07.04.1975
PostGrad Diploma (Applied Math.)	Technical University, Sofia	30.09.1972
MSc (Electrical Eng., spec. Computer Science)	Technical University, Sofia	30.09.1971

Professional Affiliations/Memberships

- IEEE (Institute of Electrical and Electronic Engineers), since 1994, Fellow 2010
- RSNZ (Royal Society of New Zealand), since 1996, Fellow, 2001
- IITP (previously New Zealand Computer Society), since 1992, Fellow 2002
- INNS (International Neural Network Society) since 1995, Fellow of the INNS College of Fellows, 2019.
- APNNA (Asia-Pacific Neural Network Assembly) since 1993, Co-founder.

Distinctions (e.g., prizes, scholarships, invited memberships, notable posts, honorary degrees):

- President of the Asia-Pacific Neural Network Society (APNNS), 2019.
- Fellow of the INNS College of Fellows, 2019.
- The INNS Ada Lovelace Meritorious Service Award, 2018.
- The Neural Network journal best paper Award for publication in 2016.
- Advisory Professor to Shanghai Jiao Tong University, till 2020.
- Distinguished Visiting Fellowship, The Scottish Informatics & Computer Science Alliance, 2016.
- The AUT Medal for 2015 – sustained and outstanding contribution to the academic success of AUT, 2015.
- Distinguished Visiting Fellowship, the Royal Academy of Engineering (RAE), UK, 2013.
- Recipient of the 'Outstanding Achievements Award' of the Asia Pacific Neural Network Assembly (APNNA), 2012.
- Recipient of the INNS Gabor Award for 2012 (www.inns.org).
- EU FP7 Marie Curie Fellowship, 2011 and 2012, INI/ETH and University of Zurich.
- Distinguished Lecturer of the IEEE Distinguished Lectureship Program, CI Society (2011-2013).
- Fellow of the IEEE (the Institute of Electrical and Electronic Engineers), since 2010.
- President, International Neural Network Society (INNS, www.inns.org), 2009-2010.
- Member of the Board of Governors, INNS, since 2005.
- Honorary Guest Professor at Shanghai Jiao Tong University, China, (since 2010).
- The AUT Vice Chancellor Award for Individual Research Excellence, 2010.
- President, Asia-Pacific Neural Network Assembly, APNNA, www.apnna.net, 2008.
- Best Paper Award, IEEE International Workshop on Data Mining & Artificial Intelligence, in conjunction with 11th IEEE Int. Conference on Computer and Information Technology (ICCIT2008), Bangladesh.
- The Bayer Science Innovator Award, 2007.
- The AUT Vice Chancellor's Award for Postgraduate Research Supervision, 2007.
- DAAD Visiting Professorship, 2005-2006, Germany.
- APNNA Excellent Service Award for overall contribution to Neuro-information Processing, 2005.
- President of the Asian Pacific Neural Network Assembly (APNNA), 1997 and 2008.
- International Neural Network Society, Vice President, 2007 and 2008
- Best Paper Award, IEEE 2003 Int. Conf. on Neural Networks & Signal Processing, Nanjing, China, December 2003.

- Fellow of the Royal Society of New Zealand, since 2001.
- The Royal Society of New Zealand Silver Medal for Contribution to Science and Technology,2001.
- Member of the Top Achiever Doctoral Committee, Tertiary Education Committee, NZ (since 1999).
- International Neural Network Society, Distinction, Washington DC, 1999.
- New Zealand FRST Award for supervision of a PhD student (M. Laws), 1999.
- Best paper award, The Fourteenth European Meeting on Cybern. and System Research, Vienna, 04/1998.
- IFIP (International Federation for Information Processing), WG 12 for Artificial Intelligence, since 1997
- NWO/SION (Dutch Organisation for Scient./Comp.Science) Research Grant, U. Maastricht, The Netherlands, 1998.
- Research Fellowship Grant, University of Twente, The Netherlands, 1998.
- Prize for Invention with High Practical Applicability, National Institute of Inventions, Bulgaria, 1992.
- Leverhulme Trust Research Fellowship, University of Essex, United Kingdom, 1989/90.
- Czechoslovakia, Research Fellowship, Institute of Cybernetics, Bratislava, 1987.
- Research Fellowship, Research and Education Ministry, The Netherlands, 1984.

Languages (in addition to English)

- Bulgarian, fluently written and spoken
- Russian, written and spoken
- German, moderately written and spoken
- Italian, beginner

Employment History

(a) Present Positions

- Professor, School of Engineering, Computing, Mathematical Sciences, Auckland University of Technology (AUT), since June 2002.
- Director, Knowledge Engineering and Discovery Research Institute, KEDRI (www.kedri.aut.ac.nz), AUT, since June 2002.
- Advisor-Professor, Shanghai Jiao Tong University, since 2010.

(b) Employment History

- Professor and Personal Chair, Department of Information Science, University of Otago, 02/1999 – 06/2002.
- Founding Director, Knowledge Engineering Laboratory, University of Otago, 1994 – 2002.
- Associate Professor, Department of Information Science, U.Otago, 1996 to 1998.
- Senior Lecturer, University of Otago/Department of Information Science, 1992 –1995.
- Research Fellow and Senior Lecturer, University of Essex (UK)/Department of Computer Science, 1989 –1991.
- Associate Professor, Technical University (TU) (Sofia)/Department of Computer Science, 1988 – 1989.
- Director of International Graduate School in Artificial Intelligence, TU Sofia, 1988 – 1991.
- Lecturer and Senior Lecturer, TU Sofia/ Department of Computer Science, 1978 – 1988.
- Research Fellow, TU Sofia/Department of Computer Science, 1976 – 1978.

Other Relevant Experience

(a) Experience Working in Other Countries

- EU FP7 Marie Curie Visiting Professor, INI/ETH and University of Zurich, 1.06.2011--30.11.2012.
- Germany, DAAD Visiting Professor, U. Kaiserlautern, 1.10.2005-28.02.2006.
- Italy, Visiting Professor, University of Trento: March-April 2001; March-June 2000; March – May 1998.
- The Netherlands, Visiting Research Fellow: University of Twente, 06/ 1998; Univ. Maastricht, 1-2/ 1998.
- The UK, Leverhulme Trust Research Fellow, University of Essex, 1989-1990.
- Czechoslovakia, Visiting Research Fellow, Institute of Cybernetics (Bratislava) 6-7/1987.
- The Netherlands, Research Fellow, University of Delft, 2-7/ 1984.

(b) National/International Collaboration

- EU funded project PANTHER, including: Poland, Hungary, Spain, Ireland, France, Australia and New Zealand, 2015-2019.
- Tripartite collaboration: Shanghai Jiao Tong University – Xinjiang University – AUT – coordinator, since 2009.
- Collaboration project with the Chinese Academy of Sciences – Institute of Automation – coordinator, since 2010.
- Partnership with several European Universities for EU projects: ETH Zurich; U. Manchester; Humboldt U., since 2011.
- Collaboration with Kyushu Institute of Technology, Japan, since 1993.
- Collaboration with the National Institute of Commun. and Information Technologies, NiCT, Tokyo, Japan, 2007-2011.
- PI of a collaborative research project "Connectionist-based intelligent information systems", FRST/NERF NZ, 1995-2007.
- Research associate and consultant: Advanced Information Modelling Joint Venture, AUT and James and Wells, Chief Scientist, since 2011; Pacific Edge Biotechnology Ltd. - PEBL NZ, Co-founder and consultant, since 1998; NZ Bio-

protection CoRE - Centre of Research Excellence, Lincoln, consultant, since 2003; SCOPE Project – U. Auckland, consultant, 2004-2009; RASP project – U. Auckland, consultant, 2008.

- Director, NZ Bioinformatics Summer School at AUT University, 2003 and 2004.
- Coordinator of SIG "Computational Intelligence in Bioinformatics" as part of BISC (Berkeley Initiative of Soft Computing), Department of Comp.Science and Electr.Engineering, U. of California at Berkeley, USA, since July 2002.
- Visiting researcher, National Cancer Institute, National Institute for Health - NIH, Frederick, Washington DC, 2002 -2008.
- Co-ordinator of exchange programmes, University of Twente and University of Maastrciht, The Netherlands, since 1998.
- RIKEN, Brain Science Institute, Japan, Collaboration on research projects, since 2001.
- Founder of the Bionformatics SIG, Technical University of Sofia – branch Plovdiv, Bulgaria, 2004.
- The Int. Consortium for Speech Translation Advanced Research, C-STAR II, Japan, Affiliate member, 1996-1999.

Research Activities

(a) Research Expertise

- Neurocomputation
- Artificial Intelligence (Neural Networks, Fuzzy Systems, Evolutionary Computation)
- Machine learning
- Data Mining and Knowledge Engineering
- Neuroinformatics
- Bioinformatics
- Signal, Speech and Image Processing

(b) Experience in Applied R & D, contract research, consultancies, patents

- Co-founder and Chief Scientist of AUT spin-off *Crunchouse.*
- Co-founder and on the Advisory Board of *Pacific Edge Biotechnology Ltd*, www.pebl.co.nz, established in 2001, Dunedin, New Zealand.
- Founder of *Knowledge Engineering Consulting Ltd*., New Zealand, established 2001.
- Consultant: PEBL (since 1997); ViaLactia Biosciences, Auckland (2005); FONTERRA, Auckland (2004-2006); Lucent-Telecom (2005); Fidelity genetics (2005); Biometric technology Ltd (2005); Waste Solutions Ltd, Dunedin (1994-2001); Hort Research (1996-2000); Steel Manufacturing Company Kremikovtsi, Sofia, Bulgaria (1988 - 1992); Institute for Agricultural Research, Plovdiv, Bulgaria (1987-89); Medical Academy, Sofia, Bulgaria (1987-88).
- Patents – total numbers 28.

(c) Research Grants

(1) Principal Investigator or Associate Principal Investigator

- 2015-2019, EU funded project PANTHER, including: Poland, Hungary, Spain, Ireland, France, Australia and New Zealand, NZD 2.8mln.
- 2017-2019, MBIE Advanced technologies for convective weather prediction (with Met Ocean Solution and Services), 500,000.
- 2015-2019, AUT Strategic Investment Research Fund (SRIF), 650,000.
- 2011-2019, Ministry of Education, NZ, Tripartite project with China: Advanced information technologies for environmental event prediction; 120,000NZD
- 2012-2015, MBIE, Advanced spiking neural network technologies for neurorehabilitation, 300,000NZD
- 2011-2012, EU FP7 Marie Curie EvoSpike project,; INI/ETH and University of Zurich, Euro120,000 (http://ncs.ethz.ch/projects/evospike)
- 2008/2010, NiCT, Tokyo, Japan, Fast algorithms for cyber-security data stream on-line modelling and analysis, NZ$360,000.
- 2002/2007, NERF, Connectionist-Based Intelligent Information Systems, $360,000 p.a
- 2006, Fonterra, Predicting milk volume production, NZ$78,000
- 2006, Telecom/Lucent/Medialab, Close loop optimisation, NZ$70,000
- 2002/2006, HRC, Predicting colorectal cancer outcome using gene expression profiling, $300,000 pa
- 2002/2004, Cancer Society of NZ, Neuroblastoma treatment prediction, $80,000pa
- 2003/2004, Fonterra, Evaluation of evolving connectionist techniques and their applications, $55,000
- 2004, ViaLactia Biosciences, NZ herd phenotype quality analysis, $75,000.
- 1997-2001, University of Otago, Connectionist-Based Information Systems, Emerging Theme Research, $20,000 pa
- 1998/2002, FRST and NERF, Connectionist-Based Intelligent Information Systems, $360,000 p.a., 1996/98, FRST UOO-606, Connectionist-Based Information Systems, $385,000 p.a
- 1995/98, FRST UOO-509, Spatial Analysis Systems and Management, $303,000 p.a
- 1998/99, Otago Research Grant, Adaptive neuro-fuzzy methods in pharmaceutical sciences, $30,000
- 1997/98, Otago Research Grant, Neuro-fuzzy methods in pharmaceutical sciences, $35,000
- 1995, Otago Research Grant, Methods and Tools for Building Adaptable Speech Interfaces to Standard and Fuzzy Databases, $25,193
- 1995-1997, Waste Solutions Ltd, Neuro-Fuzzy Control, $20,000

- 1994/95, FRST, Development of a Spatial Analysis Tool Box, $57,000
- 1994, TELECOM New Zealand Ltd, Automatic Speech Recognition, $24,500
- 1994, Departmental Research Grant, University of Otago, A Software Environment for Building Fuzzy Connectionist Production Systems - FuzzyCOPE, $10,000

(2) Contributing researcher:
- 2004/2008, NERF, SCOPE, subcontract to University of Auckland, 25,000pa.
- 2007-2008, Health Research Council, RASP – Rapid assessment of smoking status using change in acoustic parameters of voice. 40,000$.
- 1998/2000, FRST, Biological Orchard Production Systems, appr.$200,000 p.a., 1.7.1998 - 1.7.2002.
- 1998/2002, FRST, Distributed Information Systems, appr.$350,000 p.a., 1.01.98- 31.12.2002.
- 1998/2002, FRST, Spatial Analysis Systems and Management, appr.$100,000 p.a., 1.10.1998 - 1.10.2002.

Prior to 1992
- Principal researcher of projects funded by the Bulgarian Ministry of Science and Technology (BMST): Parallel processing systems (1989-1991); Expert systems for agricultural applications (1988-91); Expert systems for planning and decision making (1988-1991); Intelligent tutoring systems (1987-1989); The design and the implementation of GESMI- an expert system shell (1985-87).
- Principal researcher of projects funded by the Bulgarian National Institute of Inventions: Stack memory device (1985-87); Multi-register memory systems (1984-1986).
- Principal researcher of academic and industrial projects in Bulgaria (1974-1988): Multi-microprocessor systems for the Metallurgy Industry (1984-1988); Bubble-domain memories for computer systems (1984-86); Performance evaluation of computer systems (1978-1980); Information systems for financial operations in the Kazanluk textile industry (1974-1975).

(c) Supervision of PhD Students
1. Zahra Roozbehi, Novel methods for NN optimisation, 2019-
2. Anna Plessas, NN methods for psychology data modelling, 2019-
3. Renata Gottgttroy, N methods for concussion data modelling, 2019-
4. Sajit Jamal, Speech recognition with SNN, 2019-
5. Mahima Weerasinghe, Novel methods for knowledge discovery, 2019-
6. Akshay Gollahalli, Cloud-based implementation of SNN development systems, 2017-
7. Clarence Tan, Emotion based recognition systems, 2017-
8. Hellena Bahrami, Quantum inspired SNN, 2017-
9. Vinita Kumar, Imbalanced data modelling, 2017-
10. Wei Cui, Fast moving object recognition using SNN and DVS, 2016-
11. Ann Wendt, Brain-inspired audio-visual data modelling, 2016-2019
12. Zohreh Doborjeh, SNN methods for EEG data modelling2016-2019
13. Kaushalya Kumarasinghe, NN for neurorehabilitation, 2017-
14. Shoba Teginmath, Natural language processing, 2015-
15. Neelava Sengupta, fMRI Data Modelling, 2014-2018.
16. Maryam Doborjeh, Brain data segmentation and modelling, 2014-2018.
17. Vivienne Breen, Personalised modelling in Bioinformatics, 2014-
18. Fahad Alvi, Age invariant face recognition, 2013-2017.
19. Reggio Hartono, Rule extraction in data mining, 2013-2017.
20. Elisa Capecci, Spiking neural networks for neurogenetic modelling, 2012-2015.
21. Nathan Scott, Neuromorphic systems, 2012-2015.
22. Norhanifah Murli, Spiking neural networks for fMRI data modelling, 2012-2015.
23. Muhaini Othman, Spiking neural networks for personalised modelling, 2012-2015.
24. Paul Davidson, Multi-agent system for economic decision support in a competitive environment, 2011-2015.
25. Kshitij Dhoble, Dynamic evolving spiking neural networks for moving object recognition, 2009-2013
26. Nuttapod Nuntalid, Evolving spiking neural networks for EEG data pattern recognition, 2009-2013
27. Linda Liang, Personalised modelling for Medical Decision Support and case study of stroke data, 2010-2013
28. Boris Bacic, Connectionist and hybrid methods for video data analysis, AUT, 2004 - 2013.
29. Haza Nuzly, Quantum particle swarm optimisation: methods and applications, since 2008-2012.
30. Maggie Ma, Evolving connectionist systems for decision support in medical prognosis, NZ Top Achiever Doctoral Scholarship TAD, AUT, 2006-2012.
31. Gary Chen, On-line evolving systems for learning of large streams of data and applications for cybersecurity, 2008-2012.
32. Harya Widiputra, Dynamic interaction networks for multiple time series prediction, 2007-2011.
33. Raphael Hu, Personalised modelling for personalised medicine, 2011.
34. Frances Joseph, Design and computational intelligence, AUT, 2011.
35. Paulo Gottgtroy, Integrated ontology systems for knowledge discovery, 2004-2011.
36. Stefan Schliebs, Heterogeneous probabilistic models for the optimisation of evolving spiking neural networks, 2010.
37. Anju Verma, Ontology-based personalised modelling for chronic disease prognosis, 2005-09

38. Peter Hwang, Local and personalised modelling and knowledge discovery for real world problem solving, 2005-2009.
39. Snejana Soltic, Evolving connectionist systems for environmental modelling, 2003-2009.
40. Vishal Jain, System biology – data analysis, modelling and knowledge discovery, 2004-08.
41. Simei Wysosky, Brain like speech and image integration methods and systems, 2004-2008.
42. Liang Goh, Methods for information integration and knowledge discovery on gene expression data, 2002-2005.
43. David Parry, On-line intelligent data mining for medical data, 2000-2005.
44. Michael Watts, Evolving connectionist systems, University of Otago, 1999-2004.
45. Brendon Woodford,Connectionist-based adaptive expert systems and image analysis in horticulture, Otago, 1999-2008.
46. Matthias Futschik, Microarray Gene Expression Data Analysis and Knowledge Discovery, U. Otago, NZ, 2000-2003.
47. Waleed Abdulla, Signal processing and acoustic modelling for speech recognition systems, U. Otago, 1998-2002.
48. Q.Song, Evolving connectionist systems for dynamic modelling, University of Otago, 1998-2002.
49. Mark Laws, Maori language integration in the age of information technology, Otago U., 1998 -2002.
50. R.Kilgour, Connectionist systems for speech recognition, University of Otago, 1997-2001.
51. J. Kim, Neuro-fuzzy techniques for intelligent systems, University of Otago, 1996-1999
52. S. Israel, Probabilistic-connectionist processing to improve image pattern recognition, University of Otago, 1995-1999
53. S.Shishkov, Connectionist production systems, TU, Sofia, Bulgaria, 1990-1994
54. N.Nikolaev, Denotation semantics for AI, TU, Sofia, Bulgaria, 1990-1994

(d) Selected topics of completed Masters students :

Akshay Golhamani, EEG rotor BCI, 2014-2015.
Wriju, BCI with neuro-feedback, 2014-2015.
Y.Turkova, MPhil, Modelling brain perception data, AUT, 2014.
Rehab, BCI for P300 applications, 2012/2013.
Linda Liang, Personalised modelling, AUT, 2008-2009.
Nisha Mohan, Transductive reasoning and personalised modelling, 2005.
Andreas Magusin, Bi-clustering in bioinformatics, Auckland University of Technology, 2003-04.
M.Middlemiss, On-line decision support systems in bioinformatics, University of Otago, 2001.
M. Laws, A Bilingual speech interface for New Zealand English to Maori, University of Otago, 2001.
R.Kilgour, Hybrid systems and neural networks for speech recognition, University of Otago, 1994 -1996.
M.Bailey, Intelligent systems for control, 1997.
S.Sinclair, Multi-modular speech recognition systems, University of Otago, 1997.
D. Nikovski, Speech recognition and neural networks, TU Sofia, 1992.
C. Neshev, Hybrid system COPE, TU Sofia, Bulgaria, 1992. Neurofeedback, 2014-2015.
S. Petrova, Machine learning, TU Sofia, Bulgaria, 1992.
T.Dekova, FLIPS Fuzzy Expert System, TU Sofia, Bulgaria, 1992.
P. Kalinkov, Neural networks for game simulation, TU Sofia, Bulgaria, 1992.
L. Chen, Simulation of CLIPS on associative computer memory, University of Essex, 1990.
C. Tan, Template-based learning, University of Essex, 1990-1991.
T. Lin, MPhil, Production systems on associative memories, University of Essex, 1990-92.

Prior to 1992

- Supervised 43 successful MSc dissertations (1977-1990), Technical University of Sofia, Department of Computer Science.
- Supervised 5 successful postgraduate diplomas in Artificial Intelligence, International Graduate School of AI, Technical University of Sofia (1988 -1991).

Teaching activities

Introduced and taught the following academic courses:

- Neuroinformatics (Masters level), AUT, since 2013.
- Spiking neural networks (Rio De Janeiro, Brazil, guest course 2014).
- Machine learning, University of Padova, Italy, May 2011.
- Data mining and knowledge engineering, (Masters level), Auckland University of Technology, since 2003.
- Bioinformatics, (Masters level), Auckland University of Technology, since 2004.
- Machine learning and information visualisation, Tainan, Taiwan, 2010.
- Knowledge engineering and intelligent systems, TU Kaiserlautern, Germany, (Postgr. level), 2005/06.
- Evolving connectionist systems (Qualification level), Singapore, Malaysia, 2002,2003 and 2004.
- Data, information and knowledge (Undergraduate level), University of Otago, 2001
- Intelligent systems (Undergraduate level), University of Otago, NZ, 1992-2002
- Neural networks and fuzzy systems, 1992 -2002 (Postgraduate level) University of Otago, NZ (The course was re-named to “Advanced knowledge engineering” in 1999)

- Programming techniques, (Undergraduate level), 2000-2001, University of Essex, UK
- Expert systems (Postgraduate level), 1984, Technical University of Sofia, Bulgaria
- Parallel processing (Postgraduate level), 1984, Technical University of Sofia, Bulgaria
- Analysis and synthesis of algorithms, (Undergraduate level), 1980, TU Sofia, Bulgaria
- Computing (Undergraduate level), 1978, Technical University of Sofia, Bulgaria

University Service

(a) Positions held within Department/School/Division

- Member of the Research Committee of the School of Engineering, Computing and Mathematical Sciences, 2015-2018.
- Member of the Research Committee, Faculty of DCT, AUT, 2005-2017.
- Member of the Research Committee, Faculty of Business, AUT, 2003-2004.
- Founding director of the Knowledge Engineering Research Laboratory, U. Otago, 1994-2002.
- Member of the Graduate Committee, Inform. Science Department, U. Otago, 1994 – 2001

Prior to 1992

- Member of the Faculty Board, Faculty of Automation and Computing, TU Sofia, Bulgaria, 1987-91
- Deputy Dean for International Relations, Faculty of Radio-electronics, TU Sofia, 1987-89

(b) Positions held at University level

- Founding and present Director, Knowledge Engineering and Discovery Research Institute, www.kedri.aut.ac.nz, AUT, since June 2002.
- Member of the Academic Board, Auckland University of Technology, 2002-2004, 2013- 2018.
- Co-ordinator and principal researcher of the University Emerging Research Theme "Connectionist-based information systems", University of Otago, 1996-2002.

Prior to 1992

Director of International Graduate School in AI, TU Sofia, 1988-91

Professional Activities

(a) Academic and Professional Advice and Services

- RSNZ and ACOLA Australia, Reviewer of AI Overview Document, 2019.
- RSNZ, Member of the new fellow selection committee, NZ, 2006-2017 (Chair in 2010).
- Top Achiever Doctoral Committee (Bright Future Scholarship Committee) TEC NZ, 1999-2009.
- Otago Institute Council (The Otago Branch of the Royal Society of New Zealand), 1998 till 2002.
- Marsden Fund, New Zealand, Reviewer, since 1996.
- FRST (Foundation for Research Science and Technology, New Zealand), Reviewer, since 1994.
- Australian Research Council, Research proposal reviewer, since 1995.
- Multiple Sclerosis Society, Australia, Research proposal reviewer, 1996.
- Royal British Society, UK, Research proposal reviewer, 1992-1997.
- School of Pharmacy, University of Otago, Consultant on a PhD research project, 1995-1998.
- School of Physical Education, University of Otago Consultant on a PhD research project, 1997.
- Depart. Psychology and Computer Science, Univ. Otago Consultant on a MSc projects, 1994-1997.
- Centre of Neuro-sciences, Sofia, Bulgaria, Consultant and project proposal reviewer, 1990 - 92.
- University of Essex, UK, Convenor of a multi-disciplinary seminar on neural networks, 1991.

(b) Service to External Academic and Professional Activities

Service to, or leadership in, academic discipline or professional associations:

- President of Asia Pacific Neural Network Association (APNNS) (www.apnns.org), 2019
- Honorary Member of the Bulgarian Informatics Society, 2017-
- Honorary Member, Greek Computer Society, since 2014.
- INNS Governor Board Member, 2011-2017.
- INNS, President, 2009 and 2010.
- APNNA, President, 2007-2008.
- INNS, President-Elect, 2008.
- INNS, Vice President and Member of the Governing Board, 2005-2007.
- IEEE, Fellow (since 2010) and Senior Member (2001-2010).
- IEEE Computational Intelligence Society, Neural Networks Technical Committee, Taskforce co-ordinator, since 2004.
- IFIP (International Federation for Information Processing) – TC12 group, chair of 12.2, 1998-2001.
- APNNA (Asia Pacific Neural Network Assembly) – Founding Member of the Governing Board, since 1993.

- New Zealand Computer Society, Chairman of the "Artificial Neural Networks and Expert Systems" SIG 1993-1996.
- IEEE Robotics and Automation Society, Member of an International Board, 1996-98.

General Conference Chair and co-chair of professional conferences

1. WCCI – IJCNN 2018, Technical Co-Chair
2. NCEI, 2015, Auckland, General Chair
3. NCEI, 2012, Auckland, General Chair (www.kedri.info)
4. ICONIP'2008, 25-28.11.2008, Auckland, General Chair
5. INNS NNN08, 24-25.11.2008, Auckland, Program Chair
6. HIS 2007, Program co-chair, Kaiserslautern, Germany, September, 2007
7. IJCNN'2007, Florida, USA, Program Co-Chair
8. HIS & NCEI'06, Auckland 13-15 2006, General Chair
9. EFS, 2006, Lancaster UK, Co-Chair
10. ICANN'2005, Poland, Tutorial chair
11. ICONIP'2004 – Calcutta, November 2004, Program Chair
12. IJCNN/FUZZ IEEE, 2004 – Program, vice-chair, Budapest, 2004
13. ICONIP'2003 – The 13th Int. Conf. on Neural Information Processing, Istanbul, July 2003, Tutorial Chair.
14. WCCI'2002 – The World Congress of Computational Intelligence, May 2002, Hawaii, Program co-chair of IJCNN2002
15. JCIS'2002, Chair of the Workshop on "Adaptive systems for speech recognition" Durham, March, 2002
16. FUZZ/IEEE 2001 – The 10th IEEE Int. Conf. Fuzzy Systems, Melbourne, Australia, Dec.2001, Scientific Area Chair.
17. ANNES'2001 - The 5th NZ Int. Conf. Artificial Neural Networks and Expert Systems, Dunedin, November 2001.
18. IES'2001 – The 5th Australasia-Japan Joint Workshop on Intell. and Evolutionary Systems, Dunedin, NZ, Nov.2001.
19. ICONIP'2001 – The 8th Int. Conf. on Neural Inform.Processing, Shanghai, Nov. 2001, Chair (International Promotion).
20. IIZUKA'2000 – An international conference on soft computing, Japan, Program chair.
21. ICONIP'99 - The 6th Asian Pacific Int. Conf.Neural Information Processing, ANZIIS'99,ANNES'99, Perth, 1999.
22. ICONIP'97 - The 4th Asian Pacific Int.Conf. Neural Information Processing, ANZIIS'97, ANNES'97, Dunedin,1997.
23. ANNES'95 - The 2nd NZ Int. Two-Stream Conf. on Artificial Neural Networks and Expert Systems, Dunedin, 1995.
24. ANNES'93 - The 1st NZ Int.Two-Stream Conf. Artificial Neural Networks and Expert Systems, Dunedin, Nov.1993.

Organiser and Chairman of Invited Sessions/Workshops/Tutorials at International Conferences

1. 2018, IJCNN , Special session, Rio de Janeiro, Brazil.
2. 2017, ICONIP, Tutorial and Special Session, Guangzhou, China
3. 2016, ICONIP, Tutorial and Special Session, Kyoto
4. 2016, WCCI, Tutorial and Special Session, Vancouver.
5. 2015, INNS Big Data conference: Tutorial and Workshop, San Francisco, August 2015
6. 2014, WCCI, Bejing, July 22014, Tutorial
7. 2013, ICONIP, Daegu, Korea, Tutorial and Special Session
8. 2012, WCCI, Brisbane, Tutorial.
9. 2010, WCCI, Barcelona.
10. 2009, IJCNN 2009, Atlanta, USA, special session
11. ICONIP 2008, Auckland
12. 2008, WCCI, Hong Kong, special session
13. 2007, ICONIP, Japan, special session
14. 2006, WCCI - IJCNN and FUZZ-IEEE, 3 special sessions, Vancouver, 2006
15. 2005, IJCNN'2005, special session on computational neurogenetic modelling (with L.Benuskova)
16. 2004, ICONIP'2004, special session on adaptive intelligent systems (with Prof. Yamakawa)
17. 2003, JCIS'2003, Chair of the Workshop on "Adaptive systems and brain-like computing", Durham, September, 2003
18. 2003, Track organiser, ICONIP'2003, July, 2003, Istanbul
19. 2002, Special session organiser, ICONIP'2002, Singapore, November
20. 2002, Special session organiser, JCIS'2000 – Joint Conference on Information sciences, USA
21. 2000, Workshop organiser, JCIS'2000 – Joint Conference on Information sciences, USA, Atlantic City
22. 1999, Workshop "Future directions for intelligent systems and information sciences", November, Dunedin, 1999
23. 1999, Special session "Adaptive speech recognition", ICONIP'99, Perth
24. 1996, Neuro-fuzzy models and adaptive information systems, ICONIP'96, Hong Kong, 13-17 September
25. 1996, Hybrid systems for knowledge engineering, Iizuka'96, Japan, 3-7 October
26. 1994, Hybrid systems, Iizuka'94, Japan, 1-8 August
27. 1994, WWW'94-IEEE/Nagoya University Wise person Workshop on Fuzzy Logic and Neural Networks/Evolutionary Computation, Nagoya, Japan

Member of international programme committees

1. ICONIP, 2018, Siem Reap, Cambodia,
2. IJCNN' 2018, Brazil.
3. ICONIP 2017, Guangzhou, China
4. ICONIP 2016, Kyoto, October 2016

5. WCCI/IJCNN 2016, Vancouver
6. INNS Big Data, San Francisco, 2015
7. IJCNN 2015, Ireland
8. ICONIP, 2015, Istanbul, November 2015.
9. EANN 2014, Sofia, September (Honorary Chair)
10. ICONIP 2014, Kuching, Malaysia, November
11. WCCI/IJCNN 2014, Beijing, July
12. ICONIP 2013, Daegu, Korea, November 2013
13. ICANN 2013, Sofia, September (Honorary Chair)
14. IJCNN 2013, Texas, August, 2013
15. IJCNN, 2012, Brisbane, June 2012
16. IJCNN, 2011, San Jose, July 2011
17. WCCI, 2010, Barcelona, July 2010
18. ICONIP 2009, Bangkok
19. IJCNN'2009, Atlanta, USA.
20. WCCI 2008, Hong Kong
21. ICANN 2007, Porto
22. IJCNN 2006, Vancouver
23. FUZZ-IEEE 2006, Vancouver
24. ICANN 2006, Athens
25. KES 2006, UK
26. IJCNN'2005, Montreal
27. ICANN'2005, Warsawa
28. ICONIP'2004, Calcutta
29. IJCNN'2004, Budapest
30. ICONIP'2003, Istanbul
31. ICONIP'2002, Singapore
32. IAE'2002, Australia
33. ICAIS'2002 - Australia
34. ICONIP'2001 – Shanghai, November 2001
35. CEC'2001, Korea, May 2001
36. IJCNN'2000 – Como, Italy, July 2000
37. Iizuka'2000 – Iizuka, Japan
38. CEC'2000, San Diego, July 2000
39. ICONIP'2000 – Seoul, November 2000
40. Neural Computation'2000 – Berlin, 2000
41. Joint Conference on Information Sciences JCIS, Atlantic City, USA, 2000
42. ICONIP'99 - The Sixth Asian Pacific Int. Conf. Neural Information Processing, Sydney, October 1999
43. IJCNN'99- Washington DC, July 1999
44. ICONIP'98 - Kitakyushu, Japan, October 1998
45. IIZUKA'98 – Int. Conference on neural networks, fuzzy systems and soft computing, Iizuka, Japan, October 1998
46. ICNN&B'98 - International Conference on Neural Networks and Brain, Beijing, 27-30 October 1998
47. AI'98, Australian Joint Conference on Artificial Intelligence, 13-17 July 1998, Brisbane, Australia
48. NC'98 – International Symposium on Neural Computation, Vienna, Austria, September 23-25 1998
49. GeoComputation'97, University of Otago, August 1997
50. IFSA'97 Seventh World Congress of the International Fuzzy Systems Association, June 25-27 1997, Prague
51. BOFL'96 - International workshop on breakthrough opportunities for fuzzy logic, Yokohama, Japan, December 1996
52. ACNN'96 - The Seventh Australian Conference on Neural Networks, Sydney
53. ICONIP'96 - Hong Kong
54. IIZUKA'96 - Iizuka, Japan
55. ANZIIS'96 - The 4th Australian NZ Conf. on Intelligent Inform. Systems, Adelaide, Nov.1996, Liaison Chair.
56. AID'96 - International Conference on AI in Design, Carnegie Melon University, USA, Vice-chair for New Zealand
57. FLAMOC'96 - International Conference on Fuzzy Logic and the Management of Complexity, Sydney.
58. FUBEST'96 - The Second Workshop on fuzzy based expert systems, Sofia, October 1996.
59. SIC'96 - International Panel Conference on Soft and Intelligent Computing, Budapest, October 1996
60. ICONIP'95 - The Second International Conference on Neural Information Processing, Beijing
61. ANZIIS'95 - Perth, 1995, Liaison Chair for New Zealand
62. ACNN'95 - The Fifth Australian Conference on Neural Networks, Sydney,
63. WWW'95 - IEEE/Nagoya U. Wise Person Workshop on Fuzzy Logic and Neural Netw./Evolutionary Comp., Japan.
64. CFSA/IFIS/SOFT'95 - International Conference on Fuzzy Theory and Applications, Taiwan
65. ICONIP'94 - The First International Conference on Neural Information processing, Seoul, Korea
66. ANZIIS'94 - Brisbane, Liaison Chair for New Zealand.
67. AIA'94 - The Second International Round-Table on Abstract Intelligent Agents, Rome, Italy.
68. AIMSA'90 - Artificial Intelligence - Methodology, Systems, Applications, Varna, Bulgaria.

69. AI'88 - Artificial Intelligence, Sozopol, Bulgaria, Vice-chair of the programming committee.

Editorship of journals and periodicals.

Co-Founder and Co-Editor in Chief
Evolving Systems: Interdisciplinary Journal for Advanced Science and Technology, Springer, 2010-

Associate Editor:
1. Neural Networks, Elsevier, since 2007.
2. Information Sciences, Elsevier Science, since 2001.
3. IEEE Transactions of Fuzzy Systems, 2006-2010.
4. Int. J. Functional Informatics and Personalised Medicine, 2010-2015.
5. IEEE Transactions of Neural Networks, 2005-2009.
6. International Journal of Neural Systems, World Scientific, 2005-2009.
7. Computational and Theoretical Nanoscience, American Scientific Publishers, 2003-2005.
8. The International Journal of Hybrid Intelligent Systems, 2004-2008.
9. IEEE Transactions of Industrial Informatics, 2004-2007.
10. Applied Soft Computing, Elsevier, since 2000.
11. International Journal of Computational Intelligence and Applications, Imperial College Press, London, 2000-2007.
12. Neural Information Processing: Letters and Reviews, since 2004.
13. Journal of Advanced Computational Intelligence and Intelligent Informatics, Japan, since 1997.
14. Biomedical Fuzzy and Human Sciences, Japan, since 1996.
15. Australian Journal of Intelligent Information Processing Systems, since 1996.

Guest editor of special issues of journals:
1. Neural Networks, 2019 and 2015.
2. Nerocomputation, 2019.
3. Neural Networks and Applications, Springer, 2013.
4. IEEE Transactions on Autonomous Mental Development, 2011.
5. Neural Networks and Applications, 2011.
6. IEEE Transactions of Fuzzy Systems, 2008.
7. Journal of Computational and Theoretical Nanoscience, Comp. Intelligence for Bioinformatics, 2005.
8. Int. Journal of Comp. Intelligence and Applications, 2004.
9. Information Sciences: 2003, 2001, 1998 and 1997.
10. Journal of Advanced Computational Intelligence: 1998.
11. Australian Journal of Intelligent Information Processing Systems: 1998 and 1996.
12. International Journal of Intelligent Systems: 1997.
13. Fuzzy Sets and Systems: 1996.

Reviewer of international journals:
1. Neural Networks, since 1993
2. IEEE Transactions on Neural Networks, since 1994
3. IEEE Transactions on Fuzzy Systems, since 1995.
4. IEEE Transactions on Systems, Man, and Cybernetics, since 1995.
5. Information Sciences, since 1995.
6. IEEE Transactions on Industrial Electronics, 1997.
7. IEEE Trans. Data and Knowledge Engineering, since 2003.
8. Informatica, since 1997.
9. Journal of Advanced Computational Intelligence and Informatics, since 1997.
10. BioSilico, 2004-2007.
11. Applied Soft Computing, since 2003.
12. Int. Journal of Comp. Intelligence and Applications, since 2002.
13. Australian Journal of Intelligent Information Processing Systems, since 1994.
14. Fuzzy Sets and Systems, since 1994.
15. Lecture Notes in Computer Science/Artificial Intelligence, since 1994.
16. Medical and Biological Engineering and Computing, England, 1992 -1996.

Examiner of postgraduate research theses at other Universities
1. Pakistan, PhD, 2018.
2. NTU, Singapore, PhD, 2018.
3. NTU, Singapore, PhD, 2016
4. University of Auckland, PhD, 2016
5. University of Auckland, MSc, 2016
6. University of Auckland, PhD, 2015.

7. University of Otago, PhD, 2015.
8. University of Malaya, PhD thesis, 2015.
9. University of Canterbury, NZ, 2015.
10. University of Auckland, NZ, 2015.
11. AUT and TUT (France), PhD thesis, 2014.
12. Aalto University, Finland, PhD thesis, 2014.
13. Indian Statistical Institute, Calcutta, PhD thesis, 2014
14. The University of Auckland, PhD, June 2014.
15. Nanyang Technological University (NTU), 2013
16. University of Malaya, 2011
17. The University of Auckland, PhD thesis, 2009
18. University of Malaysia, PhD thesis, 2008
19. University of Otago, PhD thesis, 2008
20. The University of Auckland, Masters thesis, 2008
21. Nanyang Technological University, Singapore, PhD Thesis, 2007
22. Nanyang Technological University, Singapore, PhD Thesis, 2007
23. Indian Statistical Institute, PhD thesis, 2007
24. Nanyang Technological University, Singapore, PhD Thesis, 2006
25. Indian Statistical Institute, PhD thesis, 2006
26. Auckland University of Technology, Masters thesis, 2006
27. The University of Auckland, PhD thesis, 2005
28. Lincoln University, PhD thesis, 2004
29. Deakin University, Australia, PhD thesis, 2004
30. University of Auckland, PhD thesis, 2002
31. Deakin University, Australia, PhD thesis, 2003
32. University of Auckland, PhD thesis, 2002
33. University of Auckland, Masters thesis, 2002
34. University of Auckland, PhD thesis, 2001
35. Massey University, PhD thesis, 2001
36. University of South Australia, PhD Thesis, 2000
37. University of Western Australia, PhD Thesis, 2000
38. Auckland University, PhD thesis, June 2000
39. Swinburn University, Australia, PhD Thesis, September 1999
40. Auckland University, PhD thesis, September,1999
41. Swinburn University, Australia, PhD Thesis, March,1999
42. Auckland University, PhD thesis, April, 1999
43. Swinburn University, Australia, PhD Thesis, 1998
44. Massey University, PhD Thesis, 1998
45. Swinburn University, Australia, PhD Thesis, 1997
46. University of New South Wales, Australia, PhD thesis, 1997
47. Massey University, PhD thesis, 1997
48. Auckland University, PhD thesis, 1997
49. Auckland University, Masters thesis, 1996
50. Massey University, Masters thesis, 1996
51. University of Canterbury, Masters thesis, 1996
52. University of Canterbury, PhD thesis, 1995
53. Massey University, 2 PhD theses, 1995
54. Auckland University, PhD thesis, 1994
55. Nanyang University of Technology, Singapore, 2 Masters dissertations, 1994

Seminar talks and lectures at other Universities and Faculties

1. Shanghai Jiao Tong University, 2018, 2017.
2. Peking University, 2018.
3. University of Russe, Bulgaria, 2018.
4. University of Aberdeen, DVF SICSA, September 2016.
5. RGU, Scotland, DVF SICSA, 2016.
6. UHI, Ergin, DVF SICSA, 2016.
7. University of Naples, 2015.
8. University of Milano, 2015.
9. Shanghai JiaoTong University, June 2014
10. University Tunn Hussein Onn Malaysia (UTHM), June 2014.
11. University of Technology Malaysia (UTM), June 2014.
12. University of Ulster, DVF RAE UK, lecture, October 2013.

13. University of Lancaster, DVF RAE UK, lecture, October 2013.
14. University of Manchester, DVF RAE UK, lecture, October 2013.
15. University of Essex, DVF RAE UK, lecture, October 2013.
16. University of Surrey, DVF RAE UK, lecture, October 2013.
17. University of Portsmouth, DVF RAE UK, lecture, October 2013.
18. IEEE CIS Distinguished Lecture in Catholic University of Rio de Janeiro, Brazil, April 2013
19. IEEE CIS Distinguished Lecture in Sao Carlos University, Brazil, April 2013
20. Shanghai- Jiao Tong University, China, November 2012
21. Denjiang University, Shanghai, 2012
22. Shanghai- Jiao Tong University, China, May 2011
23. University of Xinjiang, China, May 2011
24. Institute for Neuroinformatics, Zurich – ETH, 2010, Probabilistic Spiking Neural Networks
25. University of Cambridge, UK, 2010, Personalised and Neuro-genetic Modelling.
26. Multinational University, Beijing, China, 2010, Personalised Modelling for Medical Decision Support.
27. Shanghai Jiao Tong University, China, 2010, Brain-, gene-, and quantum inspired intelligent systems.
28. Auckland University of technology, 2009
29. The University of Auckland, 2008
30. University of Oxford, Oxford, UK, October 2007
31. Imperial College, London, UK, October 2007
32. University of Reggio di Calabria, Italy, October 2007
33. University of Trento, Italy, September 2007
34. University of Coimbra, Portugal, September 2007
35. University of Ulster, Londonderry, October 2006
36. Mackay University, Queensland, Australia, April 2006
37. University of Lausanne, Switzerland, December 2005
38. University College of London, Medical School, December 2005
39. Fraunhoffer Institute and UNI-Kaiserslautern, Germany, November 2005
40. University of Lancaster, UK, September, 2005
41. Bulgarian Academy of Sciences, August 2005
42. University of Nagoya, Nagoya, Japan, June 2005
43. University of Natural Sciences, Ho Chi Min City, Vietnam, June 2005
44. University College London, 2004
45. TU of Sofia, Bulgaria, 2004
46. TU of Kaiserslautern, Germany, 2004
47. Kyushu Institute of Technology, Japan, 2004, 2001
48. Kobe University, Japan, 2004
49. Ritsumeikan University, Japan, March 2003 and May 2002
50. University of California at Berkeley, July 2002 and December 2003
51. Stanford University, USA, July 2002
52. National Cancer Institute, Washington DC, May 2002
53. Pohang University, Korea, 2000
54. University of Auckland, June 2000
55. IRST and University of Trento, May, 2000
56. University of California at Berkeley, July 1999
57. University of Milano, June 1999
58. University of Ulm, Germany, June 1999
59. University of Venice, May, 1998
60. University of Trento, Italy, May, 1998
61. University of Naples, Italy, April, 1998
62. University of Essex, UK, December 1997
63. University of New South Wales, Sydney, Australia, April 1997
64. University of Kaiserslautern, Germany, 1995
65. University of Trento, Italy, 1995
66. National Research Institute in Milano, 1995
67. University of Canterbury, 1995
68. Nanyang University of Technology, Singapore, 1993
69. University of Nottingham, U.K., 1991
70. King's College, University of London, UK, 1991
71. University of York, U.K., 1991
72. University of Essex, U.K., 1991

Community Service

Media commentaries and columns on professional matters:

- TV1, Breakfast show, 2018.
- NZ Herald, 2018.
- National radio NZ, 9 to noon, 2017.
- NZ Herald, 2017
- NZ Herald, 2016
- NZ Herald, 2015.
- Bnews.bg, 2015.
- National Radio, NZ, 2015.
- TVNZ1, Brain signals for robot control, video, 2011
- Idealog, Auckland, June 2009 (also on YouTube)
- Computer World, Dec.2008
- The NZ Business Review, September 2008
- NZ Herald, April, 2008
- The NZ National Business Review Magazine, The Bayer Innovation in Science Winner, 2007
- NZ Computer World, November, 2005
- NZ Herald, 2002
- Who is Who in the World, entries since 1995
- Who is Who in Science and Engineering, entries since 1995
- Who is Who in New Zealand, since 1999
- Otago Daily Times, December, 2001, September 1999, May 2000
- Who is Who in Asia and the pacific Nations, since 1999
- People of the 20th century, Cambridge Biographical Centre, since 1999
- International authors and writers - Who is Who, Cambridge Biographical centre, since 1999
- Marquis Who's Who in America, entries 1995- 2000.
- World Directory of Mathematicians, listed in the NZ's entry, 1998.
- Bulgarian National Radio, Interview, 01/1998.
- Bulgarian newspaper "24 hours", Article on Intelligent Robots, 01/1998.
- TVNZ, 2 interviews, 11/1977.
- Quickface, The NZ Comp. Soc.Monthly Bulletin, 8 articles on intelligent inform. systems and ANNES SIG, 1995-96.
- National Radio, NZ, Interview with Diana Burns on Intelligent information systems, 11/1996.
- Southern Television news report on ANNES'95 conference and on a Research Project, 11/95.
- Otago Daily Times, Report on ANNES'95 conference and on a Talking Computer Project, 11/95.
- Campus Review, vol.5, 1029, article on a research project, 1995.
- 4XO Gold Radio Station Dunedin, Interview, 07/1995.
- Dunedin Star Weekender, article by Frank Campbell, 06/1995.
- Five articles on computing published in a general public magazine "Eni Hayat", Bulgaria; 1982-88 (in Bulgarian).
- A series of five radio programmes on Computer science, National Radio, Bulgaria; 1982 (in Bulgarian).

Public lectures

1. “Spiking neural networks for brain-inspired AI”, Meet-Up, Auckland, IBM, 2018.
2. “AI”, AI-Days, 2018.
3. “ Artificial Intelligence – From Aristotle to deep learning machines”, University of Auckland, 2017.
4. “ The AI Revolution”, Christchurch, 2017.
5. “The World of Information, where Science, Art and Engin. Meet”, Fac. Design and Creative Techn.,AUT, April 2007.
6. “Knowledge Engineering, Neurocomputing and Knowledge Discovery”, Royal Society of NZ, Wellington, Nov., 2002.
7. “Knowledge Engineering and Knowledge Discovery”, Inaugural Prof. Lecture, AUT, Sept. 2002.
8. “Artificial Intelligence – Myth, or reality”, Eranos lecture, University of Otago, September 2001.
9. “Connectionist systems for data mining and knowledge discovery in Bioinformatics”, U. Otago, 2001.
10. “Data, information and knowledge and their metamorphoses” – lecture at the Otago Royal Society of NZ, 2000.
11. “Intelligent systems for a knowledge-based society”, Inaugural Prof. Lecture, University of Otago, 22 September 1999.
12. "Intelligent Information Systems: the present and the future", To the IEEE Chapter, Singapore, November 1994.

Provision of continuing education

Hands-on-Science summer school - project leader, University of Otago, 1995.
Hands-on-Science summer school - project leader, University of Otago, 1994.

Supporting Polytechnics, Colleges, Schools

- Established and sponsored 2 annual high school student awards at SOU Pavlikeni, Bulgaria, since 2006.
- Polytechnic, assistance in curriculum development, Southland Polytechnic, Invercargill, 1995
- Southland Polytechnic, Invercargill, a series of lectures - 1993 and 1994
- Joint projects with secondary schools, Sofia, Bulgaria, 1987-89

- Joint seminars for university and school students, Sofia, Bulgaria, 1987-89

Cultural and/or Scientific Access, Participation and Development

Participation at musical concerts at the conferences Iizuka' 2000, 1996, 1994, and ICONIP 07, Japan.
Participation at folk music festivals, Dunedin, 1994

Publications

Prof. N. Kasabov's Publications and Citations on Google Scholar:
http://scholar.google.com/citations?hl=en&user=YTa9Dz4AAAAJ&view_op=list_works

(a) Books

Authored

1. Kasabov, N., Time-Space, Spiking Neural Networks and Brain-Inspired Artificial Intelligence, Springer (2018) 750p., https://www.springer.com/gp/book/9783662577134
2. Kasabov, N. *Evolving Connectionist Systems: The Knowledge Engineering Approach (new edition),* Springer Verlag, London, (2007) 458p
3. Benuskova, L. and N.Kasabov, Computational neuro-genetic modelling: Integrating bioinformatics and brain science data, information and knowledge via computational intelligence, Springer, New York, 2007, 290 pages
4. Kasabov, N. Evolving connectionist systems: Methods and applications in bioinformatics, brain study and intelligent machines, Springer Verlag, London, (2003) 308p
5. Kasabov, N. Foundations of Neural Networks, Fuzzy Systems and Knowledge Engineering. Cambridge, Massachussets, MIT Press (1996) 550p
6. Kasabov, N. and Romanski, R. Computer Architectures and Techniques Sofia, Technika (1992) 435p (in Bulgarian)
7. Stoichev, S. and Kasabov, N. Programming in PASCAL. Sofia, Technika (1989) 136p (in Bulgarian)
8. Stoichev, S. and Kasabov, N. Synthesis and Analysis of Algorithms. Sofia, Technika (1988) 84p (in Bulgarian)
9. Stoichev, S. and Kasabov, N. Computer Architectures and Techniques. Sofia, Technika (1986) 348p (in Bulgarian)
10. Stoichev, S. and Kasabov, N. Computers - Theory and Practice (Programming of Microprocessors). Sofia, Technika (1984) 120p (in Bulgarian)

Edited scientific, research books:

1. M. Hadjiski, N.Kasabov, D.Filev, V.Jotsov (eds) Novel Applications of Intelligent Systems, Springer, 2016.
2. Koprinkova-Hristova, P., Mladenov, V., & Kasabov, N. (2015). Artificial Neural Networks Methods and Applications in Bio-/Neuroinformatics (Vol. 4). Springer. doi:10.1007/978-3-319-09903-3
3 N.Kasabov (ed) The Springer Handbook of Bio- and Neuroinformatics, Springer (2014) 1230 p
4 P.Angelov, D.Filev, and N.Kasabov (eds) Evolving intelligent systems, IEEE Press and Wiley, 2010
5 Kasabov, N. (ed.) Future Directions for Intelligent Systems and Information Sciences, Heidelberg, Physica-Verlag (Springer Verlag) (2000), 420pp
6 Kasabov, N. and Kozma, R. (eds.) Neuro-Fuzzy Techniques for Intelligent Information Systems, Heidelberg, Physica-Verlag (Springer Verlag) (1999), 450pp
7 Amari, S. and Kasabov, N. (eds.) Brain-like Computing and Intelligent Information Systems, Singapore, Springer Verlag (1998), 533 p.

Edited Conference Proceedings:

1. Angelov, P., Atanassov, K.T., Doukovska, L., Hadjiski, M., Jotsov, V., Kacprzyk, J., Kasabov, N., Sotirov, S., Szmidt, E., Zadrożny, S. (Eds.) (2015) Proceedings of the 7th IEEE International Conference Intelligent Systems IS'2014, September 24-26, 2014, Warsaw, Poland, Volume 1: Mathematical Foundations, Theory, Analyses, Springer, 2015.
2. V.Mladenov, P.Koprinkova, B.Apoloni, N.Kasabov, Proc. of ICANN 2013, Sofia, 2013, Springer LNCS, 2013.
3. M.Koeppen, N.Kasabov and G.Coghill, Advancements in Neural Information Processing, Proc. off ICONIP 2008, Springer LNCS, vol. 5506/5507, 2009
4. J.Si, R.Sun, D.Brown, I.King and N.Kasabov (eds) Proceedings of the Int Joint Conference on Neural Networks – IJCNN, 12-16 August 2007, IEEE Press, 2007
5. A.Koenig, M.Koeppen, A.Abraham, C.Igel and N.Kasabov, Proc. Seventh Int. Conference on Hybrid Intelligent Systems – HIS 2007, 17-19 Sept.2007, IEEE Comp.Soc.Press
6. P.Angelov, D.Filev, N.Kasabov, O.Cordon (eds) Proc. 2006 Int. Symp. Evolving Fuzzy Systems, Lancaster, UK, IEEE Press, 2006
7. N. Pal, Nikola Kasabov et al, (eds) Proc. of the Int. Conf. on Neuro Information Processing, Calcutta, November 2004, Springer Verlag, Vol. 3316, ICONIP'2004, Heidelberg, 2004
8. M.Barley, N.Kasabov (eds) Intelligent Multi-agent Systems, LNAI, vol. , 2004
9. Kasabov N., Pang S., (eds) International Journal of Computers, Systems and Signals, Volume 5 No. 2, 2004

10. K. Chen, Shu Heng Chen, Heng Da Cheng, David K.Y. Chiu, Sanjoy Das, Richard Duro, Zhen Jiang, Nik Kasabov, Etiene Kerre, Hong Va Leong, Qing Li,, Mi Lu, Manuel Grana Romay, Don Ventura, Paul P. Wang, Jie Wu (eds) Proceedings of the 7th Joint Conference on Information Sciences, JCIS 2003, 1780 pages
11. Kasabov, N, Zeke S.H. Chan (eds) Proceedings of the Conference on Neuro-Computing and Evolving Intelligence, November 2003, Auckland University of Technology, (2003) 122 pages
12. Kasabov, N. Proceedings of the Neurocomputing Colloquium and Workshop, October, AUT, (2002) 85 pages
13. Kasabov, N., B.Woodford (eds) Proceedings of the ANNES'2001, University of Otago (2001) 150 pages
14. Gedeon, T., P.Wong, S.Halgamuge, N.Kasabov, D.Nauck, and K.Fukushima (eds) ICONIP'99-Proceedings of the 6th Inter. Conf. on Neural Information Processing, 16-20.11.1999, Perth, IEEE Press (1999), Vol. I & II, 842 pages
15. Kasabov, N., and K.Ko, (eds) Emerging Knowledge Engineering and Connectionist-based Information Systems. Proceedings of the ICONIP/ANZIIS/ANNES'99 Workshop "Future directions for intelligent systems and information sciences, Dunedin, 22-23 Nov.1999, University of Otago (1999)
16. Kasabov, N., Kozma, R., O'Shea, R., Ko, K., Coghill, G., and Gedeon, T., (eds) Advances in Connectionist-Based Information Systems. Proc. Int. Conf. Neural Information Processing ICONIP'97, Springer Verlag, (1998), 1550 pages
17. Kasabov, N. and Coghill, G. (eds) Proceedings of the Second New Zealand International Conference on Artificial Neural Networks and Expert Systems, ANNES'95, Dunedin, IEEE Computer Soc. Press, Los Alamitos (1995) 401 pages.
18. Kasabov, N. (ed.) The First New Zealand International Conference on Artificial Neural Networks and Expert Systems, Proceedings of ANNES'93 Dunedin, IEEE Computer Society Press (1993) 346 pages

(b) Book Chapters

1. Kasabov, N. (2015) Evolving connectionist systems: From neuro-fuzzy-, to spiking – and neurogenetic, in: Kacprzyk and Pedrycz (eds) Springer Handbook of Computational Intelligence, Springer, 771-782.
2. Kasabov N.K. Integrative Computational Neurogenetic Modeling. In: Arthur W. Toga, editor. Brain Mapping: An Encyclopedic Reference. Academic Press: Elsevier; 2015. pp. 667-674.
3 Kasabov, N. (2014). Understanding Nature Through the Symbiosis of Information Science, Bioinformatics and Neuroinformatics. In Springer Handbook of Bio-/Neuroinformatics.
4 Kasabov, N. (2014). Brain, Gene, and Quantum Inspired Computational Intelligence. In N. Kasabov (Ed.), Springer Handbook of Bio-/Neuroinformatics. Springer.
5 Georgieva, P., Silva, F., Milanova, M., & Kasabov, N. (2014). EEG Signal Processing for Brain-Computer Interfaces. In N. Kasabov (Ed.), Springer Handbook for Bio-/Neuroinformatics. Springer.
6 Schliebs, S., & Kasabov, N. (2014). Computational Modelling with Spiking Neural Networks. In N. Kasabov (Ed.), Springer Handbook of Bio-/Neuroinformatics.
7 Tegginmath, S., Pears, R., & Kasabov, N. (2014). Ontologies and Machine Learning Systems. Springer. In N. Kasabov (Ed.), Springer Handbook of Bio-/Neuroinformatics.
8 Liang, L., Krishnamurthi, R., Kasabov, N., & Feigin, V. (2014). Information methods for predicting risk and outcome of stroke. In N. Kasabov (Ed.), Springer Handbook of Bio-/Neuroinformatics.
9 Hu, Y., Kasabov, N., & Liang, W. (2014). Personalised Information Modelling Technologies for Personalised Medicine. In N. Kasabov (Ed.), Springer Handbook of Bio- and Neuroinformatics (pp. 1-32). Springer..
10 Kasabov, N. (2013). The Evolution of the Evolving Neuro-Fuzzy Systems: From Expert Systems to Spiking-, Neurogenetic-, and Quantum Inspired. In R. Seising, E. Trillas, C. Moraga, & S. Termini (Eds.), On Fuzziness A Homage to Lotfi A Zadeh (Vol. 298, pp. 271-280). Springer.
11 Kasabov, N., Evolving Spiking Neural Networks and Neurogenetic Systems for Spatio- and Spectro-Temporal Data Modelling and Pattern Recognition, Springer-Verlag Berlin Heidelberg 2012, J. Liu et al. (Eds.): IEEE WCCI 2012, LNCS 7311, pp. 234–260
12 Widiputra, H., Pears, R., and Kasabov, N., Dynamic learning of multiple time series in a non-stationary environment, In: Sayed-Mouchaweh, Moamar; Lughofer, Edwin (Eds.), Learning in Non Stationary Environments: Methods and Applications, ISBN 978-1-4419-8019-9, Springer, 2012.
13 S.Soltic, N.Kasabov (2011) A Biologically Inspired Evolving Spiking Neural Model with Rank-Order Population Coding and a Taste Recognition System Case Study, Chapter 7 in : Turgay Temel (Ed) System and Circuit Design for Biologically-Inspired Intelligent Learning, IGI Global, 136-155, ISBN13: 9781609600181, 2011
14 H. Nuzly Abdull Hamed, Nikola K. Kasabov and Siti Mariyam Shamsuddin., Quantum-Inspired Particle Swarm Optimization for Feature Selection and Parameter Optimization in Evolving Spiking Neural Networks for Classification Tasks, Evolutionary Algorithms, Eisuke Kita (Ed.),pp 133-148, ISBN: 978-953-307-171-8, InTech, 2011
15 H. Widiputra, Russel Pears, Nikola Kasabov, Kalman Filter to Estimate Dynamic and Important Patterns of Interaction between Multiple Variables, in: Joaquín M. Gomez (ed) Kalman Filtering, Nova Science-New York, pp. 289-320, ISBN: 978-1-61761-462-0, 2011
16 S Ozawa, S Pang and N Kasabov, On-line Feature Extraction for Evolving Intelligent Systems, in: P.Angelov, D.Filev, and N.Kasabov (eds) Evolving intelligent systems, IEEE Press and Wiley, 2010, (7) 151-172.
17 Wysoski SG, Benuskova L, Kasabov N, Brain-Like Evolving Spiking Neural Networks for Multimodal Information Processing. In Brain-Inspired Information Technology. Editors: Hanazawa A, Miki T, Horio K. 266: 15-27. Springer 2010.

18 Shimo N, Pang S, Horio K, Kasabov N, Tamukoh H, Koga T, Sonoh S, Isogai H, Yamakawa T, Effective and Adaptive Learning Based on Diversive/Specific Curiosity. In Brain-Inspired Information Technology. Editors: Hanazawa A, Miki T, Horio K. 266: 171-175. Springer 2010.
19 Kasabov N, Integrative Probabilistic Evolving Spiking Neural Networks Utilising Quantum Inspired Evolutionary Algorithm: A Computational Framework. In Advances in Machine Learning II. Editors: Koronacki J, Ras ZW, Wierzchon ST, Kacprzyk J. 263: 415-425. Springer 2010
20 Kasabov, N. (2009). Soft computing methods for global, local and personalized modelling and applications in bioinformatics. In Soft ComputingBased Modelling in Intel. Systems (Vol. 196, pp. 1-18). doi:10.1007/978-3-642-00448-3.
21 N. Kasabov, Qun Song, Lubica Benuskoval, Paulo Gottgtroy, Vishal Jain, Anju Verma, Ilkka Havukkala, Elaine Rush, Russel Pears, Alex Tjahjana, Yingjie Hu, Stephen MacDonell, Integrating Local and Personalised Modelling with Global Ontology Knowledge Bases for Biomedical and Bioinformatics Decision Support, Chapter 4, 93-116 In: Smolin et al (eds) Computational Intelligence in Biomedicine and Bioinformatics, Springer, 2008
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261. Kasabov, N., Dakovski, L., and Daskalov, P. Applications of stack memory devices in microprocessor systems, in Proc. 6th Bulgarian Int.Conf. on Computer Science – Microprocessor Systems, Plovdiv, Bulgaria (1983) 16-20.
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265. Kasabov, N., Parallel computation in multi-microprocessor systems. Microprocessor control of a technological process for cutting metal without a remainder, in Proc. Radio and Commun. Annual Symposium, Sofia, Bulgaria (1983) 70-73
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268. Kasabov, N. Parallel systems with a direct access to data – a comparative analysis in Proceedings of the Radio and Communication Annual Symposium, Sofia, Bulgaria (1981)
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270. Kasabov, N., Structural realisation of homogenous probability automata in Proceedings of the 5th International Symposium on Applied Aspects of Automata Theory, Bulgarian Academy of Sciences, Varna, Bulgaria (1979) 49-54
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273. Dakovski, L., and Kasabov, N. Non-minimal generating sets of PN and SN and their finite automata realisation in Proceedings of the Radio and Communication Annual Symposium, Sofia, Bulgaria (1978) 23-29
274. Dakovski, L., and Kasabov, N. About implementation of sequential circuits in computational modules in Proceedings of the Radio and Communication Annual Symposium, Sofia, Bulgaria (1978) 57-61
275. Dakovski, L., and Kasabov, N. Logical-, register- and system design in homogenous cellular structures in Proceedings of the Radio and Communication Annual Symposium, Sofia, Bulgaria (1978) 91-95
276. Borovski, B., Egorov, A., and Kasabov, N. Probabilistic models for evaluating the performance of computer systems in Proceedings of the Radio and Communication Annual Symposium, Sofia, Bulgaria (1978) 78-83
277. Kasabov, N. On the generation of algebraic transformations and the design of discrete systems – possibilities and problems in Proceedings of the Radio and Communication Annual Symposium, Sofia, Bulgaria (1977) 75 - 79
278. Dakovski, L., and Kasabov, N. Structural synthesis of random number generators in Proceedings of the 2nd Bulgarian Conference on Computer Science, Sofia, Bulgaria (1973) 86 – 91

(f) Other Significant Conference Presentations and Publications

Invitational Addresses, Keynote Speeches

1. Plenary, IJCNN, 2019, Budapest.
2. Keynote, CompSysTech, Russe, Bulgaria, 2018
3. Keynote, ANNA2018, Varna, Bulgaria, 2018.
4. Keynote, EANN 2016, Aberdeen, 2016
5. Keynote, IS 2016, Sofia, 2016
6. Keynote, IEEE SMC, Budapest, 2016
7. Keynote, ANNPR, Ulm, 2016
8. Keynote, DMBD, Bali, 2016
9. Keynote, ICONIP 2015, Istanbul, November 2015.
10. Invited talk, C-TRIC Translational Medicine, Londonderry, September 2015.
11. Keynote, EANN 2015, Rhodos, Greece, September 2015
12. Keynote, SIREN/ Italy, May, 2015
13. Keynote, ACIIDS, Bali, March, 2015
14. Keynote, EANN, Sofia, September 2014
15. Keynote, SCDM 2014, Soft Computing and Data Mining, Malaysia, June 2014
16. Invited, ICONIP 2014, Kuching, Malaysia
17. Keynote, ICANN 2013, Sofia, 10- 13.09.2013
18. Keynote, EANN 2013, Halkidiki, Greece, 13-16.09.2013
19. Keynote, 6th Balkan Conf. on Informatics, 17th Panhellenic Conf. in Informatics, Thessalonica,Greece, 19-21.09.2013
20. Keynote, ICIC 2013, 28-31 July 2013, Nanning, China
21. Plenary, ICONIP 2012, 25-27 November, Qatar
22. Keynote, EANN 2012, 23-25 September, London
23. Keynote, ANNPR, September 17-19, Trento, Italy
24. Keynote, IEEE IS 2012, 7-9 September, Sofia
25. Invited, WCCI 2012, 10-15 June, Brisbane, Australia
26. Plenary, ICONIP 2011, Shanghai
27. Keynote, EANN 2011, Greece, September 2011.
28. Keynote, CIBB 2011, Italy.
29. Keynote, the Irish AICS (Artificial Intelligence and Cognitive Systems) conference (September 2011), Londonderry.
30. Keynote, ICANNGA (Int. Conf. ANN and GA), Ljubljana, April 2011: Neurogenetic modelling.
31. Keynote, INNS Education Symposium on Neural Networks, Lima, Peru, February, 2011: New Directions for NN.
32. Keynote, First INNS Indian Symp. on New Directions in Neural Networks, December, 2010
33. Keynote, ICANN 2010, Thessaloniki, Evolving spiking neural networks,
34. Keynote, KES 2010, Cardiff, Brain-, Gene- and Quantum Inspired Connectionist Systems for Computational Intelligence and Knowledge Engineering.
35. Keynote, ICSI, Beijing, Peking University, June 2010

36. Keynote, ICDI, Qinghuangdao, China, June 2010
37. 2009, Plenary talk, ICONIP 2009, Bangkok
38. 2009, Keynote Talk, EANN 2009, London, August 2009
39. 2009, Keynote Talk, ICONS 2009, Istanbul, September, 2009
40. 2009, Keynote Talk, ICAIS 2009, Klagenfurt, Austria, September 2009
41. 2009, Invited talk, IJCNN, Atlanta, June, 2009
42. 2009, Invited talk, Dynamic Brain Forum, 1-4 March, Atami, Japan, 2009
43. 2008, Invited talk, INNS NNN'2008 Symposia, Auckland, NZ, 2008
44. 2008, Plenary Talk, Brazilian Congress on NN and AI, October 2008
45. 2008, Plenary Talk, World Computer Congress WCC2008, Milano, 7-10.09.2008
46. 2007, Plenary talk, Automatics and Informatics 2007, Sofia, Bulgaria, October, 2007
47. 2007, Plenary talk, HIS 2007, Germany, September, 2007
48. 2007, Invited talk, Dynamic Brain Forum, Hakuba, Japan, March, 2007
49. 2006, Keynote speech, KES'2006, Bournemoth, UK, October 2006
50. 2006, Invited talk, ICONIP'2006, Hong Kong, October 2006
51. 2006, Keynote speech, Int. Conference 9th Fuzzy Days, Dortmund, Germany, September 2006
52. 2005, Keynote talk, BCS AI 2005, Cambridge, UK, December 2005
53. 2005, Invited talk, BISCSE, UC Berkeley, 3-5, November, 2005
54. 2005, Keynote speech, SOFA Int. conference, Szeged-Arad, Hungary, August 2005
55. 2005, Keynote speech, SAER, Varna, 2005, Bulgaria
56. 2005, Keynote speech, BioInfo, Plovdiv, Bulgaria
57. 2005, Invited talk, ARSO'2005 – Advanced Robotics and their Social Impact, Nagoya, June 2005
58. 2005, Keynote speech, Intern. Symposium on Computational Intelligence, Korea, 1-2 Febr.2005
59. 2004, Keynote speech, Int. Conf. on Hybrid Intelligent Systems, HIS'04, Kitakushu, Japan, December 2004
60. 2004, Keynote speech, ICONIP'2004 – Int. Conf. Neuro Information Processing, Calcutta, 2004
61. 2004, Keynote speech, The Founding meeting for the German chapter of the IEEE Comp. Intell. Society, Keiserslautern.
62. 2004, Open lecture, Bioinformatics: The knowledge engineering approach, Techn.Univ. Sofia -Plovdiv, Bulgaria, July 2004
63. 2004, Plenary talk, IEEE Symposium on Intelligent Systems, Varna, Bulgaria, June
64. 2002, Invited talk, ICONIP'2002, November, Singapore
65. 2002, Keynote speech, Int. Conf.on Industrial Applications of Intelligent and Expert Systems, IAE, Cairns, June 2002
66. 2001, Plenary Chair and invited talk, CEC'2001, Seoul, Korea
67. 2000, Invited talk, ICONIP'2000, Taijon, Korea
68. 2000, Closing Speech, Iizuka'2000, Fukuoka, Japan, 1-4 October 2000.
69. 1999, Invited lecture, Innovation in wastewater treatment, national seminar, Auckland, 30/04/99
70. 1998, Keynote presentation, 3rd On-line World Conference on Soft Computing in Engineering Design and Manufacturing, 21-30 June 1998, World Wide Web
71. 1998, Keynote speech, Neuro-Fuzzy Day, 11 June 1998, University of Twente, The Netherlands
72. 1998, Invited talk, Fuzzy neural networks and speech recognition, International workshop on Future Devices for Human-Computer Interaction, Japanese Ministry for Science and Technology, Beppu, Japan, 16-24 January, 1998
73. 1997, Opening lecture, Connectionist-based systems in the age of technology, ICONIP'97, Dunedin, 24-28 November.
74. 1996, Keynote speech, International Discourse on Fuzzy Logic and the Management of Complexity FLAMOC'96, Sydney University of Technology, 15-18 January (1996),
75. 1996, Invited talk, Int.Conf. on Neural Information Processing ICONIP'96, Hong Kong, 14-18 September, 1996,
76. 1996, Invited talk, Int.Conf.on Fuzzy Systems, Neural Networks and Soft Computing, Iizuka'96, Japan, KIT.
77. 1996, Invited talk, International Panel Conference on Soft and Intelligent Computing, SIC'96, Budapest
78. 1995, Invited talk (with T.Cohen, M.Bailey, P.Mason), Annual Conference of the New Zealand Biotechnology Association, Dunedin, 30 August,
79. 1994, Keynote speech, New Zealand Computer Society, ANNES SIG national seminar, Auckland
80. 1994, Keynote speech, New Zealand Computer Society, ANNES SIG national seminar, University of Otago,
81. 1982, Invited talk, Stack Memory Devices. International conference on Memory Devices '82. Veliko Turnovo, Bulgaria
82. 1982, Invited talk, Utilisation of the semigroup theory for exchange operations in magnetic domain memory. International conference on Memory Devices, Veliko Turnovo, Bulgaria

Tutorials and Workshops presented at International Conferences and published:

1. 2017, Tutorial on SNN and Brain-inspired AI, ICONIP, Guangzhou, China.
2. 2014, Tutorial on spiking neural networks, WCCI/IJCNN, Beijing July
3. 2013, Tutorial on evolving systems, Texas, IJCNN 2013 (with P.Angelov)
4. 2010, Workshop on evolving systems (with P.Angelov and D.Filev), WCCI, Barcelona, July 2010.
5. 2008, Tutorial on evolving systems, CBR Brazilian Symposium on NN, Salvador, Brazil, Oct., 2008
6. 2007, Tutorial on evolving intelligent systems, ICANN 2007, Porto, September 2007
7. 2007, Tutorial on evolving intelligent systems, IJCNN 2007, Orlando, August, 2007
8. 2007, Tutorial on evolving intelligent systems, IEEE Symposia, Hawaii, April 2007
9. 2006, Tutorial on evolving intelligent systems, ICANN, September 2006, Athens

10. 2006, Tutorial on evolving intelligent systems, WCCI 2006, Montreal, August, 2006
11. 2005, Tutorial on evolving connectionist systems, IJCNN,05, Montreal, July 2005
12. 2005, Tutorial on evolving connectionist systems, ICANN'05, Warsaw, Sept. 2005
13. 2004, Tutorial on evolving connectionist systems, ICONIP'04, Calcutta, Nov. 2004
14. 2004, Tutorial on data mining and knowledge discovery in bioinformatics, Int. Joint Conf. on Neural Networks – IJCNN, Budapest, 2004
15. 2003, Adaptive neural networks for data mining and knowledge discovery, Tutorial at the Int. Joint Conf. on Neural Networks (IJCNN'03), July 2003, Portland, Oregon, IEEE and INNS
16. 2003, Knowledge-based Neural Networks for Bioinformatics, University of California at Berkley, BISC Workshop on FLINT-CIBI (USA)
17. 2000, Evolving Connectionist Systems: Methods, Tools, Applications, Tutorial at ICONIP'2000 (Taejon, Korea)
18. 2000, Evolving connectionist systems, Tutorial , euroComputation conference NC'2000 (Berlin)
19. 1999, Workshop "Future directions for intelligent systems and information sciences", Dunedin, November 1999
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