



Curriculum Vitae

Personal Information

Name:

Nikola Kirilov Kasabov

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<http://www.kedri.info>

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, Senior Member, 2008
- APNNA (Asia-Pacific Neural Network Assembly) since 1993, Co-founder.

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

- President-Elect of the Asia-Pacific Neural Network Society (APNNS), to become President in 2019.
- The INNS Ada Lovelace Meritorious Service Award, 2018.
- The Neural Network journal best paper Award for publication in 2016, 2018.
- 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, Mathem. Sciences, Auckland Univ. Technology (AUT), since June 2002.
- Director, Knowledge Engin.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. Kaiserslautern, 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

- 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 Maastricht, The Netherlands, since 1998.
- RIKEN, Brain Science Institute, Japan, Collaboration on research projects, since 2001.
- Founder of the Bioinformatics 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 Kremikovtzi, 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

Last 23 Years

(1) Principal Investigator or Associate Principal Investigator

- 2011-2016, Ministry of Education, NZ, Tripartite project with China: Advanced information technologies for environmental event prediction; 80,000NZD
- 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 the Last 23 Years

- 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 Postgraduate Students

Completed PhD

1. Neelava Sengupta, fMRI Data Modelling, 2014-2018.
2. Maryam Doborjeh, Brain data segmentation, 2014-2018.
3. Vivienne Breen, Personalised modelling in Bioinformatics, 2013-2018.
4. Fahad Alvi, Age invariant face recognition, 2013-2017.
5. Reggio Hartono, Rule extraction in data mining, 2013-2017.
6. Elisa Capecci, Spiking neural networks for neurogenetic modelling, 2012-2015.
7. Nathan Scott, Neuromorphic systems, 2012-2015.
8. Norhanifah Murli, Spiking neural networks for fMRI data modelling, 2012-2015.
9. Muhaini Othman, Spiking neural networks for personalised modelling, 2012-2015.
10. Paul Davidson, Multi-agent system for economic decision support in a competitive environment, 2011-2015.
11. Kshitij Dhoble, Dynamic evolving spiking neural networks for moving object recognition, 2009-2013
12. Nuttapol Nuntalid, Evolving spiking neural networks for EEG data pattern recognition, 2009-2013
13. Linda Liang, Personalised modelling for Medical Decision Support and case study of stroke data, 2010-2013
14. Boris Basic, Connectionist and hybrid methods for video data analysis, AUT, 2004 - 2013.
15. Haza Nuzly, Quantum particle swarm optimisation: methods and applications, since 2008-2012.
16. Maggie Ma, Evolving connectionist systems for decision support in medical prognosis, NZ Top Achiever Doctoral Scholarship TAD, AUT, 2006-2012.
17. Gary Chen, On-line evolving systems for learning of large streams of data and applications for cybersecurity, 2008-2012.
18. Harya Widiputra, Dynamic interaction networks for multiple time series prediction, 2007-2011.
19. Raphael Hu, Personalised modelling for personalised medicine, 2011.
20. Frances Joseph, Design and computational intelligence, AUT, 2011.
21. Paulo Gottgroy, Integrated ontology systems for knowledge discovery, 2004-2011.
22. Stefan Schliebs, Heterogeneous probabilistic models for the optimisation of evolving spiking neural networks, 2010.
23. Anju Verma, Ontology-based personalised modelling for chronic disease prognosis, 2005-09
24. Peter Hwang, Local and personalised modelling and knowledge discovery for real world problem solving, 2005-2009.
25. Snezana Soltic, Evolving connectionist systems for environmental modelling, 2003-2009.
26. Vishal Jain, System biology – data analysis, modelling and knowledge discovery, 2004-08.
27. Simej Wyosky, Brain like speech and image integration methods and systems, 2004-2008.
28. Liang Goh, Methods for information integration and knowledge discovery on gene expression data, 2002-2005.
29. David Parry, On-line intelligent data mining for medical data, 2000-2005.
30. Michael Watts, Evolving connectionist systems, University of Otago, 1999-2004.
31. Brendon Woodford, Connectionist-based adaptive expert systems and image analysis in horticulture, Otago, 1999-2008.
32. Matthias Futschik, Microarray Gene Expression Data Analysis and Knowledge Discovery, U. Otago, NZ, 2000-2003.
33. Waleed Abdulla, Signal processing and acoustic modelling for speech recognition systems, U. Otago, 1998-2002.
34. Q. Song, Evolving connectionist systems for dynamic modelling, University of Otago, 1998-2002.
35. Mark Laws, Maori language integration in the age of information technology, Otago U., 1998 -2002.
36. R. Kilgour, Connectionist systems for speech recognition, University of Otago, 1997-2001.
37. J. Kim, Neuro-fuzzy techniques for intelligent systems, University of Otago, 1996-1999
38. S. Israel, Probabilistic-connectionist processing to improve image pattern recognition, University of Otago, 1995-1999
39. S. Shishkov, Connectionist production systems, TU, Sofia, Bulgaria, 1990-1994
40. N. Nikolaev, Denotation semantics for AI, TU, Sofia, Bulgaria, 1990-1994

Only few selected completed Masters:

Akshay Golhamani, EEG roto 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.

Currently supervising the following PhD students:

Shoba Tannigmath, Ontology systems for knowledge discovery, since 2009.
Zohre Doborjeh, Neuroeconomics, since 2014.
Anne Abbott, since 2016.
Kaushalya Sammaradghe, since 2016.
Akshay Gllollali, since 2017.
Clarence Tan, since 2017.
Hellena Bahrami, since 2017.
Vinita Kumar, since 2017.
Wei Cui, since 2016

Prior to the Last 22 Years

- 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 Kaiserslautern, 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, 1993-2002
- Neural networks and fuzzy systems, 1993 -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

Last 23 Years

- Member of the Research Committee, Faculty of DCT, AUT, since 2005.
- 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 the last 23 Years

- Deputy Director of the Artificial Intelligence Research Laboratory, TU Sofia- Bulgaria, 1987-91
- 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

Last 23 years

- 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- till now.
- Co-ordinator and principal researcher of the University Emerging Research Theme “Connectionist-based information systems”, University of Otago, 1996-2002.

Prior to the last 23 years

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

Professional Activities

(a) Academic and Professional Advice and Services

- 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:

- Honorary Member, Greek Computer Society, since 2014.
- INNS Governor Board Member, 2011-till now
- INNS, President, 2009 and 2010.
- INNS Member of the BoG, since 2005.
- APNNA, President, 2007-2008.
- INNS, President-Elect, 2007.
- 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) – 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 , Specvial 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, Beijing, 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. IJCNN' 2018, Brazil.
2. ICONIP 2017, Guangzhou, China
3. ICONIP 2016, Kyoto, October 2016
4. WCCI/IJCNN 2016, Vancouver
5. INNS BigData, San Francisco, 2015
6. IJCNN 2015, Ireland
7. ICONIP, 2015, Istanbul, November 2015.
8. EANN 2014, Sofia, September (Honorary Chair)
9. ICONIP 2014, Kuching, Malaysia, November
10. WCCI/IJCNN 2014, Beijing, July

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

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

Seminar talks and lectures at other Universities and Faculties

1. Shanghai Jiao Tong University, November 2017.
2. University of Aberdeen, DVF SICSA, September 2016
3. RGU, Scotland, DVF SICSA, 2016
4. UHI, Ergin, DVF SICSA, 2016
5. University of Naples, 2015.
6. University of Milano, 2015.
7. Shanghai JiaoTong University, June 2014
8. University Tun Hussein Onn Malaysia (UTHM), June 2014.
9. University of Technology Malaysia (UTM), June 2014.
10. University of Ulster, DVF RAE UK, lecture, October 2013.
11. University of Lancaster, DVF RAE UK, lecture, October 2013.
12. University of Manchester, DVF RAE UK, lecture, October 2013.
13. University of Essex, DVF RAE UK, lecture, October 2013.
14. University of Surrey, DVF RAE UK, lecture, October 2013.
15. University of Portsmouth, DVF RAE UK, lecture, October 2013.
16. IEEE CIS Distinguished Lecture in Catholic University of Rio de Janeiro, Brazil, April 2013
17. IEEE CIS Distinguished Lecture in Sao Carlos University, Brazil, April 2013
18. Shanghai- Jiao Tong University, China, November 2012
19. Denjiang University, Shanghai, 2012
20. Shanghai- Jiao Tong University, China, May 2011
21. University of Xinjiang, China, May 2011
22. Institute for Neuroinformatics, Zurich – ETH, 2010, Probabilistic Spiking Neural Networks

23. University of Cambridge, UK, 2010, Personalised and Neuro-genetic Modelling.
24. Multinational University, Beijing, China, 2010, Personalised Modelling for Medical Decision Support.
25. Shanghai Jiao Tong University, China, 2010, Brain-, gene-, and quantum inspired intelligent systems.
26. Auckland University of technology, 2009
27. The University of Auckland, 2008
28. University of Oxford, Oxford, UK, October 2007
29. Imperial College, London, UK, October 2007
30. University of Reggio di Calabria, Italy, October 2007
31. University of Trento, Italy, September 2007
32. University of Coimbra, Portugal, September 2007
33. University of Ulster, Londonderry, October 2006
34. Mackay University, Queensland, Australia, April 2006
35. University of Lausanne, Switzerland, December 2005
36. University College of London, Medical School, December 2005
37. Fraunhofer Institute and UNI-Kaiserslautern, Germany, November 2005
38. University of Lancaster, UK, September, 2005
39. Bulgarian Academy of Sciences, August 2005
40. University of Nagoya, Nagoya, Japan, June 2005
41. University of Natural Sciences, Ho Chi Min City, Vietnam, June 2005
42. University College London, 2004
43. TU of Sofia, Bulgaria, 2004
44. TU of Kaiserslautern, Germany, 2004
45. Kyushu Institute of Technology, Japan, 2004, 2001
46. Kobe University, Japan, 2004
47. Ritsumeikan University, Japan, March 2003 and May 2002
48. University of California at Berkeley, July 2002 and December 2003
49. Stanford University, USA, July 2002
50. National Cancer Institute, Washington DC, May 2002
51. Pohang University, Korea, 2000
52. University of Auckland, June 2000
53. IRST and University of Trento, May, 2000
54. University of California at Berkeley, July 1999
55. University of Milano, June 1999
56. University of Ulm, Germany, June 1999
57. University of Venice, May, 1998
58. University of Trento, Italy, May, 1998
59. University of Napels, Italy, April, 1998
60. University of Essex, UK, December 1997
61. University of New South Wales, Sydney, Australia, April 1997
62. University of Kaiserslautern, Germany, 1995
63. University of Trento, Italy, 1995
64. National Research Institute in Milano, 1995
65. University of Canterbury, 1995
66. Nanyang University of Technology, Singapore, 1993
67. University of Nottingham, U.K., 1991
68. King's College, University of London, UK, 1991
69. University of York, U.K., 1991
70. University of Essex, U.K., 1991

Community Service

Media commentaries and columns on professional matters:

- National radio NZ, 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. "Artificial Intelligence – From Airstotle to deep learning machines", University of Auckland, 2017.
2. "The AI Revolution", Christchurch, 2017.
3. "The World of Information, where Science, Art and Engin. Meet", Fac. Design and Creative Techn.,AUT, April 2007.
4. "Knowledge Engineering, Neurocomputing and Knowledge Discovery", Royal Society of NZ, Wellington, Nov., 2002.
5. "Knowledge Engineering and Knowledge Discovery", Inaugural Prof. Lecture, AUT, Sept. 2002.
6. "Artificial Intelligence – Myth, or reality", Eranos lecture, University of Otago, September 2001.
7. "Connectionist systems for data mining and knowledge discovery in Bioinformatics", U. Otago, 2001.
8. "Data, information and knowledge and their metamorphoses" – lecture at the Otago Royal Society of NZ, 2000.
9. "Intelligent systems for a knowledge-based society", Inaugural Prof. Lecture, University of Otago, 22 September 1999.
10. "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 (16.06.2018): more than 12,500 citations, h-ind=50; i10-ind=218: http://scholar.google.com/citations?hl=en&user=YTa9Dz4AAAAJ&view_op=list_works

(a) Books

Authored

1. N.Kasabov, 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, Massachusetts, 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., Zadrozny, 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 Modeling 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. Haza 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. Harya 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 Diverse/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 modeling and applications in bioinformatics. In Soft Computing Based Modeling in Intel. Systems (Vol. 196, pp. 1-18). doi:10.1007/978-3-642-00448-3.
21. Nikola Kasabov, Qun Song, Lubica Benuskova, Paulo Gottgroy, 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

- 22 Pang, S., Havukkala, I., Hu, Yingjie, Kasabov, N.: Bootstrapping Consistency Method for Optimal Gene Selection from Microarray Gene Expression Data for Classification Problems. Chapter 4, In: Zhang, Y.-Q., Rajapakse, J.C. (eds.): *Machine Learning for Bioinformatics*. John Wiley & Sons, Inc., New Jersey (2008)
- 23 N Kasabov, V Jain, L Benuskova, P Gottgroy and F Joseph, Integration of Brain-Gene Ontology and Simulation Systems for Learning, Modelling and Discovery, In: *Computational Intelligence in Medical Informatics, Series: Studies in Computational Intelligence, Vol. 85, 221-234*. Eds; Arpad Kelemen, Ajith Abraham, Yulan Liang, ISBN: 978-3-540-75766-5, 2008
- 24 Kasabov, N., Song, Q., & Ma, T. M. (2008). Fuzzy-neuro systems for local and personalized modelling. In *Forging New Frontiers: Fuzzy Pioneers II (Vol. 218, pp. 175-197)*. Berlin / Heidelberg: Springer. doi:10.1007/978-3-540-73185-6_8
- 25 Pang, S., & Kasabov, N. (2008). SVMT-rule: Association rule mining over SVM classification trees. In *Rule Extraction from Support Vector Machines (Vol. 80, pp. 135-162)*. doi:10.1007/978-3-540-75390-2_6
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252. Kasabov, N. and Shishkov, S. On the problem of connectionist production systems - models and their implementation, in Artificial Neural Networks 2. I.Aleksander and J.Taylor (eds) Elsevier Sc. Publ.North-Holland (1992) 699- 702
253. Kasabov, N. COPE-a hybrid connectionist production system environment, in Proceedings of the Third Australian Conference on Neural Networks (ACNN'92). Sydney, Sydney University Electrical Engineering (1992) 135-138
254. Kasabov, N. and Petkov, S. Neural networks and logic programming - a hybrid model and its applicability to building expert systems, in Proc. 10th European Conf.on Artificial Intelligence Vienna, John Wiley & Sons (1992) 287-288
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256. Kasabov, N. and Clarke, G. Towards a template-based implementation of supervised and unsupervised learning in connectionist knowledge based systems, in Artificial Neural Networks 1. Kohonen, T. et al (eds), Elsevier Science Publishers B.V. North-Holland (1991) 477-481

Publications in conference proceedings in Bulgarian or Russian (if not specified otherwise)

257. Kasabov, N., Trishina, E. A knowledge based production system for parallel processing: a model and its implementation on transputers, in: Proc. Int. Conf. on Artificial Intelligence '89, Sozopol, Bulgaria (1989) 41-47
258. Kasabov, N., Pavlova, R., Some analytical representations for multiprocessor computing systems in Proceedings of the Radio and Communication Annual Symposium, Sofia, Bulgaria (1986) 83-87
259. Groen, A., van den Herik, H.J., Hofland, A., Kasabov, N., Kerckhoffs, E. and Stoop, J. Linking knowledge-based systems to conventional simulation models - current and planned research projects in Proceedings of the Working Conference on Artificial Intelligence in Simulation, Ghent, Belgium, University of Ghent (1985) 58-62 (in English)
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261. Kasabov, N. and Trampov, P. Parallel computations in SIMD/MIMD multi-microprocessor systems with functional reconfiguration in Abstracts of the Proc. of Parallel Computing'83. Berlin, Springer Verlag (1983) 40 (in English)
262. Kasabov, N., Bijev, G., and Jechev, B. Hierarchical discrete Systems and the realisation of Parallel Algorithms, in Proc. Conf. Problems and Programming for Parallel computing Berlin, Springer-Verlag (1983) 415-422 (in English)
263. 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.
264. Kasabov, N. Design and applications of multimicroprocessor systems with functional reconfiguration in Proceedings of 6thBulgarian Int. Conf. on Computer Science – Microprocessor Systems, Plovdiv, Bulgaria (1983) 56-59
265. Kasabov, N., and Trampov, P. On some applications of a multi-microprocessor system with a functional reconfiguration, in Proc. 6th Bulgarian Int. Conf. Computer Science – Microprocessor Systems, Plovdiv, Bulgaria (1983) 35-39
266. Kasabov, N. The structure and organisation of multi-microprocessor systems for control of technological processes. A multi-microprocessor system – operational modes and algorithms, in Proc. Radio Commun. Ann.Symp., Sofia (1983) 65-69
267. 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
268. Kasabov, N., and Bijev, G. Computer analysis of geometric transformations in Proc. of the international symposium on Automata, languages, systems '82, Bulgarian Academy of Sciences, Bulgaria (1982) 54-59
269. Kasabov, N. On a basis of the symmetrical group of transformations and its automatic realisation, in Proc. Intern. Symposium on Automata, languages and systems '82, Bulgarian Academy of Sciences, Varna, Bulgaria (1982) 93-99
270. 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)
271. Kasabov, N., and Kassabova, D. A probabilistic simulation model of operations and processes in digital computers regarding input streams in Proc. of the Radio and Communication Annual, Sofia, Bulgaria (1980) 57-62
272. 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
273. Kasabov, N., and Pavlova, R., Methods of factor analysis for evaluation of multiprocessor systems in Proceedings of the 5th Bulgarian International Conference on Computer Science, Sofia, Bulgaria (1979) 11-18
274. Kasabov, N. Structural representation of basic algebraic transformations in a finite automata in Proceedings of the Radio and Communication Annual Symposium, Sofia, Bulgaria (1979) 49-54
275. 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
276. 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

277. 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
278. 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
279. 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
280. 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. Keynote, CompSysTech, Russe, Bulgaria, 2018
2. Keynote, ANNA2018, Varna, Bulgaria, 2018.
3. Keynote, EANN 2016, Aberdeen, 2016
4. Keynote, IS 2016, Sofia, 2016
5. Keynote, IEEE SMC, Budapest, 2016
6. Keynote, ANNPR, Ulm, 2016
7. Keynote, DMBD, Bali, 2016
8. Keynote, ICONIP 2015, Istanbul, November 2015.
9. Invited talk, C-TRIC Translational Medicine, Londonderry, September 2015.
10. Keynote, EANN 2015, Rhodes, Greece, September 2015
11. Keynote, SIREN/ Italy, May, 2015
12. Keynote, ACIIDS, Bali, March, 2015
13. Keynote, EANN, Sofia, September 2014
14. Keynote, SCDM 2014, Soft Computing and Data Mining, Malaysia, June 2014
15. Invited, ICONIP 2014, Kuching, Malaysia
16. Keynote, ICANN 2013, Sofia, 10- 13.09.2013
17. Keynote, EANN 2013, Halkidiki, Greece, 13-16.09.2013
18. Keynote, 6th Balkan Conf. on Informatics, 17th Panhellenic Conf. in Informatics, Thessalonica, Greece, 19-21.09.2013
19. Keynote, ICIC 2013, 28-31 July 2013, Nanning, China
20. Plenary, ICONIP 2012, 25-27 November, Qatar
21. Keynote, EANN 2012, 23-25 September, London
22. Keynote, ANNPR, September 17-19, Trento, Italy
23. Keynote, IEEE IS 2012, 7-9 September, Sofia
24. Invited, WCCI 2012, 10-15 June, Brisbane, Australia
25. Plenary, ICONIP 2011, Shanghai
26. Keynote, EANN 2011, Greece, September 2011.
27. Keynote, CIBB 2011, Italy.
28. Keynote, the Irish AICS (Artificial Intelligence and Cognitive Systems) conference (September 2011), Londonderry.
29. Keynote, ICANNGA (Int. Conf. ANN and GA), Ljubljana, April 2011: Neurogenetic modelling.
30. Keynote, INNS Education Symposium on Neural Networks, Lima, Peru, February, 2011: New Directions for NN.
31. Keynote, First INNS Indian Symp. on New Directions in Neural Networks, December, 2010
32. Keynote, ICANN 2010, Thessaloniki, Evolving spiking neural networks,
33. Keynote, KES 2010, Cardiff, Brain-, Gene- and Quantum Inspired Connectionist Systems for Computational Intelligence and Knowledge Engineering.
34. Keynote, ICSI, Beijing, Peking University, June 2010
35. Keynote, ICDI, Qinghuangdao, China, June 2010
36. 2009, Plenary talk, ICONIP 2009, Bangkok
37. 2009, Keynote Talk, EANN 2009, London, August 2009
38. 2009, Keynote Talk, ICONS 2009, Istanbul, September, 2009
39. 2009, Keynote Talk, ICAIS 2009, Klagenfurt, Austria, September 2009
40. 2009, Invited talk, IJCNN, Atlanta, June, 2009
41. 2009, Invited talk, Dynamic Brain Forum, 1-4 March, Atami, Japan, 2009
42. 2008, Invited talk, INNS NNN'2008 Symposia, Auckland, NZ, 2008
43. 2008, Plenary Talk, Brazilian Congress on NN and AI, October 2008
44. 2008, Plenary Talk, World Computer Congress WCC2008, Milano, 7-10.09.2008
45. 2007, Plenary talk, Automatics and Informatics 2007, Sofia, Bulgaria, October, 2007
46. 2007, Plenary talk, HIS 2007, Germany, September, 2007
47. 2007, Invited talk, Dynamic Brain Forum, Hakuba, Japan, March, 2007
48. 2006, Keynote speech, KES'2006, Bournemouth, UK, October 2006
49. 2006, Invited talk, ICONIP'2006, Hong Kong, October 2006
50. 2006, Keynote speech, Int. Conference 9th Fuzzy Days, Dortmund, Germany, September 2006
51. 2005, Keynote talk, BCS AI 2005, Cambridge, UK, December 2005

52. 2005, Invited talk, BISCSE, UC Berkeley, 3-5, November, 2005
53. 2005, Keynote speech, SOFA Int. conference, Szeged-Arad, Hungary, August 2005
54. 2005, Keynote speech, SAER, Varna, 2005, Bulgaria
55. 2005, Keynote speech, BioInfo, Plovdiv, Bulgaria
56. 2005, Invited talk, ARSO'2005 – Advanced Robotics and their Social Impact, Nagoya, June 2005
57. 2005, Keynote speech, Intern. Symposium on Computational Intelligence, Korea, 1-2 Febr.2005
58. 2004, Keynote speech, Int. Conf. on Hybrid Intelligent Systems, HIS'04, Kitakushu, Japan, December 2004
59. 2004, Keynote speech, ICONIP'2004 – Int. Conf. Neuro Information Processing, Calcutta, 2004
60. 2004, Keynote speech, The Founding meeting for the German chapter of the IEEE Comp. Intell. Society, Keiserslautern.
61. 2004, Open lecture, Bioinformatics: The knowledge engine.approach, Techn.Univ. Sofia -Plovdiv, Bulgaria, July 2004
62. 2004, Plenary talk, IEEE Symposium on Intelligent Systems, Varna, Bulgaria, June
63. 2002, Invited talk, ICONIP'2002, November, Singapore
64. 2002, Keynote speech, Int. Conf.on Industrial Applications of Intelligent and Expert Systems, IAE, Cairns, June 2002
65. 2001, Plenary Chair and invited talk, CEC'2001, Seoul, Korea
66. 2000, Invited talk, ICONIP'2000, Taijon, Korea
67. 2000, Closing Speech, Iizuka'2000, Fukuoka, Japan, 1-4 October 2000.
68. 1999, Invited lecture, Innovation in wastewater treatment, national seminar, Auckland, 30/04/99
69. 1998, Keynote presentation, 3rd On-line World Conference on Soft Computing in Engineering Design and Manufacturing, 21-30 June 1998, World Wide Web
70. 1998, Keynote speech, Neuro-Fuzzy Day, 11 June 1998, University of Twente, The Netherlands
71. 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
72. 1997, Opening lecture, Connectionist-based systems in the age of technology, ICONIP'97, Dunedin, 24-28 November.
73. 1996, Keynote speech, International Discourse on Fuzzy Logic and the Management of Complexity FLAMOC'96, Sydney University of Technology, 15-18 January (1996),
74. 1996, Invited talk, Int.Conf. on Neural Information Processing ICONIP'96, Hong Kong, 14-18 September, 1996,
75. 1996, Invited talk, Int.Conf.on Fuzzy Systems, Neural Networks and Soft Computing, Iizuka'96, Japan, KIT.
76. 1996, Invited talk, International Panel Conference on Soft and Intelligent Computing, SIC'96, Budapest
77. 1995, Invited talk (with T.Cohen, M.Bailey, P.Mason), Annual Conference of the New Zealand Biotechnology Association, Dunedin, 30 August,
78. 1994, Keynote speech, New Zealand Computer Society, ANNES SIG national seminar, Auckland
79. 1994, Keynote speech, New Zealand Computer Society, ANNES SIG national seminar, University of Otago,
80. 1982, Invited talk, Stack Memory Devices. International conference on Memory Devices '82. Veliko Turnovo, Bulgaria
81. 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
20. 1999, Evolving connectionist systems – methods, tools, applications, Tutorial, ICONIP'99, Nov. 1999, Perth
21. 1999, Speech and language recognition, Tutorial Track at IJCNN'99, Washington DC, July 1999
22. 1997, Connectionist-Based Intelligent Information Systems, Tutorial, ICONIP'97, Dunedin, 24-28 November 1997
23. 1997, Hybrid Connectionist-Based Intelligent Information Systems – Methodologies, Tools, Industrial Applications, Tutorial, World Manufacturing Congress, WMC'97, 18 November 1997, Auckland

24. 1997, AI/GIS systems and their applications, Tutorial, The 2nd Annual Conf. on Geo Computation, Dunedin, June 1997
25. 1997, Hybrid Intelligent Information Systems, Tutorial, ICNN'97 (The IEEE International Conference on Neural Networks), Houston, USA, May
26. 1996, Hybrid AI/GIS systems and their applications, Tutorial, Australian Urban and Resource Planning Information Society AURISA'96, Hobart, November 1996
27. 1996, Hybrid (neuro-fuzzy) intelligent information systems: methods, tools, industrial applications, Tutorial at Iizuka'96, (International Conference on fuzzy systems, neural networks and soft computing), Iizuka, Japan, September 1996
28. 1995, Intelligent Hybrid Systems for Problem Solving and Knowledge Acquisition, Workshop at the Second New Zealand International Conference on Artificial Neural Networks and Expert Systems ANNES'95, Dunedin, November 1995
29. 1995, Hybrid (Connectionist, Fuzzy, Symbolic) Environments and Their Applications for Building Complex Decision Making Systems, Tutorial, International Conference on Neural Information Processing (ICONIP'95- Beijing), Beijing, 1995
30. 1995, Fuzzy Data Analysis, Workshop, Eight Colloquium of the Spatial Information Research Centre of the University of Otago, Palmerston North.
31. 1994, Hybrid (Symbolic-, Connectionist-Fuzzy-, Chaotic) Systems, Tutorial, AI'94 – the Joint Australian Conference on Artificial Intelligence, Armidale
32. 1993, The Basics of Fuzzy Systems, Tutorial, ANNES'93 conference, Dunedin, U. Otago
33. 1993, Neural Networks for Problem Solving. Tutorial, ANNES'93 conference, Dunedin, U. Otago

(g) Audio-Visual Recordings Published as CDs

- 2018, Video on the Nature Scientific Reports paper.
- 2010, The science gets personal, AUT and YouTube
- 2008, The KEDRI Repository of Intelligent Connectionist Based Systems – RICBIS (www.kedri.info)
- 2000, Smart Voice Technologies, CD, Information Science Department, University of Otago.
- 1999, Speech and language Processing, Tutorial Track 8, CD, IJCNN'99, Washington DC, July.
- 1998, Connectionist-based Inform. Systems, CD UOO606 FRST project results (software, papers) (1998)
- 1996, Fuzzy system implementation on the Fisher & Paykel's PSC-III, Video film, in collaboration with the University of Otago Audio Visual Centre.

(h) Computer Software - Developed and Published

1. N.Kasabov et al, NeuCube – a spiking neural network spatio-temporal machine, KEDRI, 2013-2015
2. N.Kasabov et al, EvoSpike - a spiking neural network software environment for modelling spatio-temporal data, 2013, <http://ncs.ethz.ch/projects/evospike/>
3. R.Hu, N.Kasabov et al, The KEDRI_Personalised Modelling Development System v1, March 2012
4. S.Schliebs, N.Kasabov et al, The KEDRI_EvoSpike Development System v1, February 2012
5. N.Kasabov et al, The KEDRI RICBIS Computational Intelligence Repository 2008 (www.kedri.info)
6. N.Kasabov, L.Benuskova, V.Jain, P.Gottgroy, BGO – The KEDRI Brain-Gene Ontology (www.kedri.info)
7. Z.Chan, N.Kasabov, V.Jain, GenNetXP – A gene regulatory network modelling software (www.kedri.info), 2003-2005
8. D. Greer, N. Kasabov, Q. Song, L.Goh – Siftware: A Gene Expression Profiling Software, 2003-2005
9. P.Hwang, D. Greer, N. Kasabov, Q. Song, P. Pang, NeuCom – A Neurocomputing environment for intelligent decision support systems, (www.the_neucom.com), 2003 - 2006
10. Richard Walton, Dougal Greer, Nik Kasabov, Qun Song – Cardio Vascular Disease Prediction System, 2003
11. Song, Q. and N.Kasabov, ECOS MATLAB Toolbox, (www.kedri.info), 2002-2003
12. Abdula, W. and N.Kasabov, Speech recognition development environment, Department of Information Science, University of Otago, 1999
13. Deng, D., Koprinska, I., Kasabov, N., et al, The NZ Repository of Intelligent Connectionist-Based Modules and Systems – NZ-RICBIS, <http://divcom.otago.ac.nz/infosci/kel/CBIIS.html>
14. Kilgour, R., Kasabov, N., Kozma, R., Laws, M., et al. HySPEECH/2 - An experimental software system for speech recognition and translation from English to Maori, Windows95, PGSF FRST NZ/University of Otago, 1998, <http://kel.otago.ac.nz>
15. Watts, M., Kasabov, N., and Pearson, S. FuzzyCOPE/3 - A hybrid fuzzy connectionist production systems environment, MS Windows/Windows95, June 1998, University of Otago, <http://kel.otago.ac.nz>
16. Purvis, M., Kasabov, N., Zhang, F., et al, AI/GIS hybrid intelligent information system for spatial information processing, UNIX/SUN-ArchInfo, FRST NZ/University of Otago, 1997
17. Kasabov, N., Garden, J., Jones, P., Kilgour, R., Gray, A., et al. FuzzyCOPE-1 & 2 - A hybrid fuzzy connectionist production systems environment, MS Windows/Windows95, 1995-1997; University of Otago
18. Watson, C., Kasabov, N., Sinclair, S., Laws, M., Kilgour, R., and Kassabova, D., Otago Speech Corpora on New Zealand English, CD, Windows95/UNIX, University of Otago, 1995, <http://kel.otago.ac.nz>
19. Kasabov, N. et al, COPE - Connectionist production systems environment, Technical University of Sofia, 1992
20. Kasabov, N. and Nikolaev, N. GESPAR - Generator of Expert Systems for Parallel Computers, TU Sofia, 1990
21. Kasabov, N., Besenshek, D.Georgiev and Svetlin. GESMI - Generator of Expert Systems, TU Sofia, 1987

(i) Patents

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