

Simona Doboli

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Education	Ph.D., Electrical Engineering March 2001 University of Cincinnati, Cincinnati, OH Thesis Advisor: Dr. Ali A. Minai
	M.S., Computer Engineering June 1996 "Politehnica" University of Timisoara, Romania
	B.S., Computer Engineering June 1995 "Politehnica" University of Timisoara, Romania
Teaching Experience	Professor Sept. 2014 - Present Computer Science Department Hofstra University Hempstead, NY.
	Associate Professor Sept. 2007 - 2014 Computer Science Department Hofstra University Hempstead, NY.
	Assistant Professor Sept. 2001 - 2007 Computer Science Department Hofstra University Hempstead, NY.
	Junior Faculty Member Sept. 1995 - August 1997 Department of Automation and Industrial Informatics, "Politehnica" University of Timisoara, Romania.

**Research
Experience**

Research Internship
Division of Research and Development,
Symbol Technologies, NY.

March 2001 - July 2001

Summer Neuromorphic Engineering Workshop
Telluride, CO.

July 2000

Graduate Research Assistant
Complex Adaptive Systems Laboratory,
ECECS Department,
University of Cincinnati, OH.

Sept. 1997 - March 2001

Publications

Journal Papers

- 1) L.E. Coursey, B.C. Williams, J.B. Kenworthy, P.B. Paulus, S. Doboli: Divergent and Convergent Group Creativity in an Asynchronous Online Environment, *Journal of Creative Behavior*, Published on 12 July 2018 <https://doi.org/10.1002/jocb.363>
- 2) H. Li, X. Liu, F Jiao, A. Doboli and S. Doboli, InnovA: A Cognitive Architecture for Computational innovation through robust divergence and its application for analog circuit design, *IEEE Transactions on CAD of Integrated Circuits and Systems*, Vol 37(10), Oct 2018, pp. 1943-1956.
- 3) A. Doboli, A. Umbarkar, S. Doboli, J. Betz, Modeling Semantic Knowledge Structures for Creative Problem Solving: Six Studies on Expressing Concepts, Categories, Associations, Goals and Context, *Knowledge-based Systems*, Kluwer, published, January 2015.
- 4) A. Umbarkar, V. Subramanian, A. Doboli, and S. Doboli, Two Experimental Studies on Creative Concept Combinations in Modular Design of Electronic Embedded Systems, *Design Studies*, Elsevier, 35, 2014, pp. 80-109.
- 5) F. Jiao, S. Montano, C. Ferent, A. Doboli, S. Doboli, Analog Circuit Design Knowledge Mining: Discovering Topological Similarities and Uncovering Design Reasoning Strategies, *IEEE Transactions on CADICS*, Vol. 34, No. 7, July 2015,.
- 6) Ferent, C., Doboli, A., and Doboli, S. An Axiomatic Model for Concept Structure Description and Its Application to Circuit Design, *Knowledge-based Systems*, Elsevier, Vol. 45, June 2013, pp. 114-133.
- 7) P. Paulus, D. Levine, V. Brown, A.A. Minai, and S. Doboli. Modeling Ideational Creativity in Groups: Connecting Cognitive, Neural and Computational Approaches. *Small Group Research*, Vol. 41(6), pp. 688-724, December 2010.
- 8) L.R. Iyer, S. Doboli, A.A. Minai, V.R. Brown, D. S. Levine, P. B. Paulus, Neural dynamics of idea generation and the effects of priming, *Neural Networks*, Vol. 22, Issue 5-6 , pp. 674-686, 2009.
- 9) H. Zhang, S. Doboli, H. Tang, A. Doboli. Compiled code simulation of analog and mixed-signal systems using piecewise linear modeling of nonlinear parameters. *Integration the VLSI Journal*, Vol. 40, No. 3, pp. 193-209, 2007.
- 10) S. Kallakuri, A. Doboli, S. Doboli. Applying stochastic modeling to bus arbitration for network-on-chip systems. *Integration the VLSI Journal*, Special issue on VLSI System-On-Chip, Vol. 40, Issue 2, pp. 183-191, February 2007.
- 11) S. Doboli and A.A. Minai. Network capacity analysis for latent attractor computa-

- tion. *Network:Comput. Neural Syst.*, 14:273-302, 2003.
- 12) S. Dobioli, A.A. Minai and P.J. Best. A computational model of the interaction between external and internal cues for the control of hippocampal place cells. *Neurocomputing*, 52-54:371-379, 2003.
 - 13) S. Dobioli, A.A. Minai, P.J. Best and A.M. White. An attractor model for hippocampal place cell hysteresis. *Neurocomputing*, 38-40:1185-1191, 2001.
 - 14) S. Dobioli, A.A. Minai and P.J. Best. Latent attractors: a model for context-dependent place representations in the hippocampus. *Neural Computation*, 12:1009-1043, 2000.
 - 15) S. Dobioli, A.A. Minai and P.J. Best. A comparison of context-dependent hippocampal place codes in 1-layer and 2-layer recurrent networks. *Neurocomputing*, 32-33:353-358, 2000.
 - 16) R.-E. Precup, S. Dobioli and S. Preitl. Stability analysis and development of a class of fuzzy control systems. *Engineering Applications of Artificial Intelligence*, 13(3):237-247, 2000.
 - 17) S. Dobioli, A.A. Minai and P.J. Best. A latent attractors model of context selection in the dentate gyrus-hilus system. *Neurocomputing*, 26-27:671-676, 1999.

Book Chapters

- 18) N. Parthasarathy, S. Dobioli, and P.B. Paulus: Entrepreneurship. In M. Runco and S. Pritzker (Eds.), it Encyclopedia of Creativity, 2nd Edition. Elsevier, volume 1, pp. 461-467, 2011.
- 19) S. Dobioli, A.A. Minai. Latent attractors: A general paradigm for context-dependent neural computation. In Ke Chen, Lipo Wang (Eds.) *Trends in Neural Computation*, Springer-Verlag, ISBN: 978-3-540-36121-3, pages: 135-170, 2007.
- 20) S. Dobioli, A.A. Minai and P.J. Best. Different Hippocampal Place Cell Maps for Different Environments. In P. Sharp (Ed.) *The Neural Basis of Navigation: Evidence from Single Cell Recording*, Kluwer Academic Publishers, ISBN: 0792375793, pages: 23-41, 2002.

Peer-Reviewed Conference Papers

- 21) M. Mei, X. Guo, B.C. Williams, Simona Dobioli, J.B. Kenworthy, P.B. Paulus, A.A. Minai: Using Semantic Clustering And Autoencoders For Detecting Novelty In Corpora Of Short Texts. In Proceedings of the *International Joint Conference on Neural Networks (IJCNN'2018)*, 2018: 1-8
- 22) Hensley, A., and Dobioli, A., and Mangoubi, R., and Dobioli, S.: Generalized Label Propagation. In Proceedings of the *International Joint Conference on Neural Networks*, Ireland, July 2015.
- 23) Dobioli, A., and Dobioli, S.: iflows: A Novel Simulation Model for Predicting the Effectiveness of a Research Community. In Proceedings of the *2014 IEEE Symposium Series on Computational Intelligence (SSCI)*, Orlando, FL, December 2014.
- 24) Dobioli, S., Jacques, M., Minai, A.A., Paulus, P., Korde, R., and Dobioli, A.: Modeling the effect of hint timing on the idea generation process. In Proceedings of the *International Joint Conference on Neural Networks*, Dallas, TX, August 2013.
- 25) Dobioli, A. and Dobioli S.: Dual-process architecture for reasoning in design innovation problems, In Proceedings of the *International Joint Conference on Neural Networks*, Dallas, TX, August 2013.
- 26) Dobioli, S.: Work in Progress - Computing for middle-school students: The experi-

- ence of teaching computers for 7th grade students. In Proceedings of the *Frontiers in Education Conference*, 2011.
- 27) Currie, E.H., Doboli, S. and Kamberova, G.L. Entrepreneurs- Developing the Next Generation, In Proceedings of the *Frontiers in Education Conference*, 2011.
 - 28) Kamberova, G.K., Pacelli, A., Impagliazzo, J., Currie, E.H., Doboli, S.. Patents and Intellectual Property in Entrepreneurship Education in Computing at Hofstra University. In Proceedings of the *Frontiers in Education Conference*, 2011.
 - 29) Doboli, S. and Brown, V.R. An emergent attractors model for idea generation process. In Proceedings of the 2010 *International Joint Conference on Neural Networks*, pp. 1-8, Barcelona, Spain, 2010.
 - 30) S. Doboli, G.L. Kamberova, J. Impagliazzo, X. Fu and E.H. Currie: A Model of Entrepreneurship Education for Computer Science and Computer Engineering Students. In Proceedings of the *Frontiers in Education Conference (FIE'2010)*, October, Washington D.C., 2010.
 - 31) X. Fu, S. Doboli, and J. Impagliazzo: Work-in-Progress: A Sandbox Model for Teaching Entrepreneurship. In Proceedings of the *Frontiers in Education Conference (FIE'2010)*, October, Washington D.C., 2010.
 - 32) S. Doboli, V. Brown, A.A Minai: A conceptual neural model of idea generation. In proceedings of the 2009 *International Joint Conference on Neural Networks*, pp. 2777-2783 , Atlanta, Georgia, USA, 2009.
 - 33) A.A Minai, L. Iyer, D. Padur and S. Doboli: A Dynamical Connectionist Model of Idea Generation. In proceedings of the 2009 *International Joint Conference on Neural Networks*, pp. 2777-2783 , Atlanta, Georgia, USA, 2009.
 - 34) L.R. Iyer, A.A. Minai, V.R. Brown, P.B. Paulus and S. Doboli: Effects of relevant and irrelevant primes on idea generation : A computational model. In Proceedings of the 2009 International Joint Conference on Neural Networks, Atlanta, GA, 2009.
 - 35) Ali A. Minai, Laxmi R. Iyer, Divyachapan Padur, Simona Doboli and Vincent R. Brown: A Graded Attractors: Configuring Context-Dependent Workspaces for Ideation, Proceedings of the *AAAI Symposium on Brain-Inspired Cognitive Architectures (BICA'09)*, Arlington, VA, November 2009.
 - 36) A. Doboli, S. Doboli and E. Currie, "Preparing Computer Engineers for a Global Economy: A Study on Effective Collaboration Practices in Global Student Teams", In Proceedings of the *Frontiers in Education Conference (FIE'2009)*, Austin, TX, 2009.
 - 37) W. Tang, S. Doboli, L. Gafney and S. Lowes, Project EXCE2L: A work in progress to revitalize undergraduate computing curriculum through entrepreneurship, In Proceedings of the 2009 *International Conference on Frontiers in Education: Computer Science and Computer Engineering*, Las Vegas, NV, July 13-16, 2009.
 - 38) A. Doboli, S. Doboli, E. H. Currie. Visual Embedded System Programming Has Arrived! In Proceedings of the 38th ASEE/IEEE *Frontiers in Education Conference*, Saratoga Springs, NY, October 22 -25, 2008.
 - 39) L.R. Iyer, A.A. Minai, S. Doboli, and V.R. Brown. Modeling exploration and exploitation in creative idea generation. Proceedings of the *19th Midwest Artificial Intelligence and Cognitive Science Conference*, Cincinnati, OH, 2008.
 - 40) S. Kallakuri, A. Doboli, S. Doboli, D. Pescaru and Daniel Curiac: SoC Design Point Selection for Dynamic Adaptation under Continuously Varying Throughput Constraints In Proceedings of *NASA/ESA Conference on Adaptive Hardware and Systems*, August 2007.

- 41) L. Iyer and A.A. Minai, S. Dobioli, V. Brown. Modularity and Self-Organized Functional Architectures in the Brain. In Proceedings of the *7th International Conference on Complex Systems (ICCS'2007)*, Boston, MA. 2007.
- 42) S. Luryi, W. Tang, N. Lifshitz, Y. Shamash, G. Wolf, S. Dobioli, J.A. Betz, P. Maritato. Entrepreneurship in Engineering Education. In Proceedings of the *Frontier in Education Conference*, Milwaukee, Wisconsin, October 10-13, 2007.
- 43) S. Dobioli, A.A. Minai and V. Brown. Adaptive Dynamic Modularity in a Connectionist Model of Context-Dependent Idea Generation, In Proceedings of the *International Joint Conference of Neural Networks (IJCNN'2007)*, August 2007, pages: 2183-2188.
- 44) N.A. George, A.A. Minai, S. Dobioli. Self-organized inference of spatial structure in randomly deployed sensor networks. In Proceedings of the *6th International Conference on Complex Systems (ICCS'2006)*, Boston, MA, 2006.
- 45) N. Thepayasuwan, S. Kallakuri, S. Dobioli, A. Dobioli. Communication subsystem synthesis and analysis tool using bus architecture generation and stochastic arbitration policies. *IEEE International Symposium on Circuits and System (ISCAS'2005)*, Kobe, Japan, 23-26 May 2005 Page(s):1044 - 1047 Vol. 2, 2005.
- 46) S. Dobioli and A.A. Minai. Using latent attractors to discern temporal order. In Proceedings of the *International Joint Conference on Neural Networks (IJCNN'2004)*, Budapest, Hungary, 25-29 July 2004 Page(s):1469 - 1474 vol.2, 2004.
- 47) R. M. Bateman and S. Dobioli. Reinforcement learning algorithm using neural networks for playing Othello. In Proceedings of the *Conference on Computer Games: Design, AI and Education (CGAIDE'2004)*, Microsoft Academic Campus, Reading, UK, Pages: 71-74, 2004.
- 48) S. Kallakuri, A. Dobioli and S. Dobioli. Stochastic modeling based environment for synthesis and comparison of bus arbitration policies. In Proceedings of the *International Symposium on VLSI (ISVLSI'2004)*, 19-20 Feb. 2004 Page(s):199 - 204, 2004.
- 49) Y. Weng, S. Kallakuri, A. Liang, A. Dobioli, S. Hong, T. Robertazzi and S. Dobioli. Dynamic architecture adaptation to improve scalability of sensor networks: A case study for a smart sensor for face recognition. In Proceedings of the *Real-Time Systems Symposium (Work in Progress Section)*, (RTSS'2004), Lisbon, Portugal, 2004.
- 50) S. Dobioli, G. Gothoskar and A. Dobioli. Extraction of Piecewise-Linear Analog Circuit Models from Trained Neural Networks using Hidden Neuron Clustering. In Proceedings of *DATE'2003*, Munich, Germany, Page(s):1098 - 1099, 2003.
- 51) S. Dobioli and A.A. Minai. Latent attractor selection for variable length episodic context stimuli with distractors. In Proceedings of *IJCNN'2003*, Portland, USA, 20-24 July 2003 Page(s):1643 - 1648 vol.3, 2003.
- 52) S. Dobioli, G. Gothoskar, A. Dobioli. Piecewise-linear modeling of analog circuits using trained feed-forward neural networks and adaptive clustering of hidden neurons. In Proceedings of *IJCNN'2003*, Portland, USA, 20-24 July 2003 Page(s):1126 - 1131 vol.2, 2003.
- 53) S. Kallakuri, A. Dobioli and S. Dobioli. Applying stochastic modeling to bus arbitration for network-on-chip systems. In Proceedings of *International Conference on VLSI*, Las Vegas, USA, 2003.
- 54) S. Dobioli, G. Gothoskar and A. Dobioli. Modeling of Analog Circuits based on Model Extraction from Trained Neural Networks. In Proceedings of *IEEE Inter-*

- national Workshop on Behavioral Modeling and Simulation (BMAS'2002)*, Santa Rosa, USA, Page(s):41 -46, 6-8 Oct. 2002.
- 55) S. Dobioli, A.A. Minai. Latent attractor selection in the presence of irrelevant stimuli. In Proceedings of the *World Congress on Computational Intelligence (WCCI'2002)*, Hawaii, USA, 12-17, Page(s):124 - 129, May 2002.
 - 56) S. Dobioli, A.A. Minai. A computational model of the interaction between external and internal cues for the control of hippocampal place cells. In Proceedings of the *Computational Neuroscience Meeting (CNS'2002)*, Chicago, USA, July 2002.
 - 57) S. Dobioli, A.A. Minai. Progressive attractor selection in latent attractor networks. In Proceedings of the *International Joint Conference on Neural Networks (IJCNN'2001)*, Washington D.C., USA, 15-19 July 2001 Page(s):308 - 313 vol.1, July 2001.
 - 58) S. Dobioli, A.A. Minai, P.J. Best and A.M. White. An attractor model for hippocampal place cell hysteresis. In Proceedings of the *Computational Neuroscience Meeting (CNS'2000)*, Bruges, Belgium, 2000.
 - 59) S. Dobioli and A.A. Minai. Network capacity for latent attractor computation. In Proceedings of the *International Joint Conference on Neural Networks (IJCNN'2000)*, Como, Italy, pp. 222-228.10, 2000.
 - 60) S. Dobioli and A.A. Minai. Generating smooth context-dependent neural representations. In Proceedings of the *International Joint Conference of Neural Networks (IJCNN'1999)*, Washington D.C., USA, 1999.
 - 61) S. Dobioli and R.-E. Precup. The application of a stability analysis method to fuzzy control systems. In Proceedings of The 7-th *World Congress of International Fuzzy Systems Association (IFSA'97)*, Prague, Czech Republic, 3:452-457, 1997.
 - 62) S. Dobioli and R.-E. Precup. Stability analysis and design of a class of fuzzy control systems. In Proceedings of Fourth *IFAC Conf. on System Structure and Control - SSC'97*, Bucharest, Romania, pp. 361-366, 1997.

Abstracts

- 63) S. Dobioli, A. Henshley, X. Lin, F. Jiao, and A. Dobioli, New measures for evaluating creativity in scientific publications, presented at the *Computational Intelligence Conference*, MIT, Boston, June 10-12, 2014.
- 64) D. E. Weissman, S. Dobioli, and A. Esposito, Estimation of sea surface rainrate from SeaWinds data using neural network methods, *International Ocean Vector Winds Science Team Meeting*, 2-4 June 2014, Brest, France.
- 65) S. Dobioli: A dynamic cognitive model of novel conceptual combinations, In Proceedings of the *Thirteen Neural computation and Psychology Workshop*, (NCPW13), San Sebastian, Spain, July 2011.
- 66) S. Dobioli and V. R. Brown: A stochastic model of the role of semantic networks in individual and group idea generation, Presented at *IJCNN'2011*, San Jose, California, 2011.
- 67) S. Dobioli, L. Iyer, A.A. Minai, V.R. Brown, and C. Claxton: Dynamics of search in a neural model of idea generation. In Proceedings of the *12th International Conference on Cognitive and Neural Systems*, Boston, 2008.
- 68) V. Brown and S. Dobioli. A Neural network simulation of interactive group brainstorming. *Eighteenth Annual Convention of the Association for Psychological Science*, New York, May 2006.
- 69) S. Dobioli and V. Brown. A neural network model of creative idea generation in groups. In Proceedings of the *Ninth International Conference on Cognitive and*

Neural Systems, Boston, May 2005.

- 70) S. Dobioli, A.A. Minai and P.J. Best. A model for non-linear computational aspects in hippocampal place representations. In Proceedings of *Fourth International Conference on Cognitive and Neural Systems, Boston*, 2000.
- 71) B.B. Rettenmaier, A.M. White, S. Dobioli, A.A. Minai and P.J. Best. Place fields of hippocampal pyramidal cells in rats show hysteresis. *Soc. Neurosci. Abs.*, Vol.2, 120-121, 1999.
- 72) S. Dobioli, A.A. Minai and P.J. Best. Context-dependent place representations in the hippocampus. In Proceedings of *Third Conference on Cognitive and Neural Systems*, Boston, 1999.

Panels/Symposiums

- 73) P. Paulus, J. Kenworthy, A.A. Minai, A. Dobioli, and S. Dobioli: A Study of the Relationship Between Individual and Community Level Creativity, Symposium on Creativity in Networks: A Multi-disciplinary Approach. Presented at the *Association for Psychological Science, 27th Annual Convention*, NYC, May 2015.
- 74) P. Erdi, R. Kozma (chairs), Dobioli, S., Haibo, H., Ritter, F., Thagard, P., and Weng, J.: Panel on teaching cognitive science and computational intelligence. Panel Session at *International Joint Conference on Neural Networks*, Dallas, Texas, 2013.
- 75) P. Erdi and S. Dobioli (organizers): Undergraduate interdisciplinary education in cognitive and neural computation: What, how and why?, Panel Session at *International Joint Conference on Neural Networks*, San Jose, California, 2011.
- 76) S. Dobioli, W. Tang, R. Ramnath, J. Impagliazzo, T. VanEpps, A. Agarwal, R. Romero and E. H. Currie: Panel - Models of Entrepreneurship Education and its Role in Increasing Creativity, Innovation and Leadership in Computer Science and Engineering Students. In Proceedings of *Frontiers in Education Conference (FIE'2010)*, October, Washington D.C., 2010.

Invited talks

- 77) S. Dobioli: Cognitive science and idea generation. Invited talk at *NSF Workshop on Cognitive Science at International Joint Conference on Neural Networks*, Dallas, Texas, 2013.

Professional Activities

- Associate Editor for the Journal of Cognitive Systems Research, since 2014.
- Tutorial chair and program committee member for the *International Joint Conference on Neural Networks (IJCNN'2019)*, Budapest, 2019
- Workshop chair and program committee member for the *International Joint Conference on Neural Networks (IJCNN'2013)*, Dallas, Texas, 2013.
- Member in the subcommittee for Education/Curriculum of the *Computational Intelligence Society of IEEE*, since Spring 2012.
- Program Committee Member for the *International Conference on Artificial Neural Networks*, ICANN'2012.
- Program Committee Member for the *Brain Inspired Cognitive Architectures conference*, BICA'2011, BICA'2012.
- Program Committee Member for the *Midwest Artificial Intelligence and Cognitive Science Conference*, MAICS'2011, MAICS'2012.
- Panel chair and program committee member for the *International Joint Conference on Neural Networks (IJCNN'2011)*, San Jose, California, 2011.
- Co-organizer of Panel on interdisciplinary education in cognitive and neural computation at IJCNN'2011, San Jose, California, 2011.
- Organizer of an eight people panel on entrepreneurship education at *Frontiers in Education Conference*, Washington, D.C., 2010.
- Co-chair "Cognitive Mechanisms and Modeling 1" session at *International Joint Conference on Neural Networks*, 2009.
- Associate Editor for IEEE Transactions on Neural Networks, (2005 - 2007).
- Reviewer for IEEE Transactions on Neural Networks.
- Reviewer for Cognitive Systems Research Journal.
- Reviewer for IEEE Transactions on Circuits and Systems.
- Reviewer for Neural Networks.
- Reviewer for Hippocampus.
- Reviewer for the International Joint Conference on Neural Networks (IJCNN).
- Reviewer for the Cognitive Science Conference.
- Reviewer for Journal of Educational Resources in Computing (JERIC).

Grants

- 1) co-PI on NSF: NSF-1247971 (09/15,2012 - 08/31/2015): *INSPIRE: The hunting of the Spark: A Systematic Study of Natural Creativity in Human Networks*,(Hofstra subcontract budget \$87,209, total budget \$999,762).
- 2) PI on NSF-0855883 Major Collaborative Grant (08/15/2009 - 08/14/2012): *Major Collaborative Proposal: CreativeIT: Understanding the Creative Design Process: A Novel Cognitive Model based on Behavioral Experiments in Circuit Design and Architecture*, (Hofstra budget \$87K, total budget \$750K).
- 3) PI on NSF-0829641 Collaborative Grant (08/31/2008 - 08/20/2011): *Collaborative Research: CPATH-TI: Project ExCE2L (Excellence in Computer Education with Entrepreneurship and Leadership Skills*, (Hofstra Budget \$364K, total budget \$750K).
- 4) PI on NSF-0729470 Collaborative Grant (10/01/2007 - 09/30/2011): *Collaborative Proposal: DHB: Dynamics of idea generation in individual and group brainstorming: a multi-disciplinary approach using network models and behavioral experiments* (Hofstra budget \$171K, total budget \$680K).

Professional Organizations

- Member of IEEE, IEEE Computational Intelligence Society.

Awards

- Recipient of the 2001 Best PhD thesis Award, awarded by the Department of Electrical and Computer Engineering and Computer Science, University of Cincinnati, OH.
- Recipient of 1999 and 2000 Summer Student Fellowship, awarded by University of Cincinnati Research Council, OH.
- University Graduate Scholarship, University of Cincinnati, Sept. 1997 - March 2001.
- Graduated in 1995 with *Diploma of Merit* from "Politehnica" University of Timisoara, Romania.
- Ranked first in class in all 5 years of college (out of 100 students).
- *Scholarship of Merit*, 1990-1995, "Politehnica" University of Timisoara, Romania (awarded to top 5 students each year).