

Bradley P. Allen

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Overview

An artificial intelligence expert and serial entrepreneur with over thirty years of experience bringing innovative software solutions to market. Currently Chief Architect at Elsevier, the world's largest publisher of medical and scientific information.

Education

Carnegie-Mellon University, B.S., Applied Mathematics, 1982.

Experience

Elsevier Inc., Chief Architect, 2013 - present. Leading the Architecture and Labs groups within Elsevier's technology organization, focusing on driving the establishment and evolution of the data platforms that are transforming Elsevier from the world's leading scientific and medical publisher into the leading provider of information analytics solutions for researchers and medical professionals. **Vice President, Elsevier Labs**, 2009 - 2013. Led Elsevier Technology Services' research and development efforts, helping groups within Elsevier plan, design, and build advanced technologies into products in support of Elsevier's strategic plans.

Siderean Software, Inc., Founder and CTO, 2001 - 2008. Led company as CEO from founding until raising a first venture round in 2004. A semantic search company, Siderean was recognized in 2007 as a visionary in Gartner's Magic Quadrant for Enterprise Information Access. Siderean's assets were sold to Open Text Corporation in May 2011.

TriVida Corporation, Founder and CTO, 1997 - 2001. Created technology and led product development at a web site cross-sell/up-sell personalization software-as-a-service startup. TriVida was sold to Be Free, Inc. (now Conversant) in March 2000.

Limbex Corporation, Founder and CTO, 1995 - 1996. Designed and led the development of WebCompass, an Internet search assistant that won Byte Magazine's Best Of Show award at COMDEX Fall '95. Limbex was sold to Quarterdeck Corporation (now Symantec Corporation) in August 1996.

Inference Corporation, Vice President, Applications Development, 1991 - 1995. Created CBR Express, the first case-based problem resolution solution for the CRM market. Inference became a public company in June 1995. **Director of Advanced Technology**, 1987 - 1991. Managed a profit center conducting research projects funded by NASA and DARPA. **Senior Computer Scientist**, 1984 - 1987. Principal member of the team that designed and developed ART, one of the first commercial expert system development environments.

Robotics Institute, Carnegie-Mellon University, Senior Research Programmer, 1982 - 1984. Designed and developed knowledge-based scheduling systems and frame-based knowledge representation languages at the Institute's Intelligent Systems Laboratory.

Selected Publications

- [1] Paul Groth, Antony Scerri, Ron Daniel, and Bradley P Allen. End-to-End Learning for Answering Structured Queries Directly over Text. November 2018.
- [2] Paul Groth, Sujit Pal, Darin McBeath, Brad Allen, and Ron Daniel. Applying Universal Schemas for Domain Specific Ontology Expansion. In *5th Workshop on Automated Knowledge Base Construction*, June 2016.
- [3] Philip E Bourne et al. Force11 Manifesto: Improving Future Research Communication and e-Scholarship, October 2011.
- [4] Bradley P Allen, Cormac Twomey, and John B Jensen. Method and apparatus for using faceted metadata to navigate through information resources, December 5 2006. US Patent 7,146,362.
- [5] Bradley P Allen and Valery A Petrushin. Searching for Relevant Video Shots in BBC Rushes using Semantic Web Techniques. In *Proceedings of the TRECVID 2005 Workshop*. NIST, November 2005.
- [6] Bradley P Allen and Joseph T Tennis. Building Metadata-Based Navigation using Semantic Web Standards: the Dublin Core 2003 Conference Proceedings. In *Proceedings of the 2004 Joint ACM/IEEE Conference on Digital Libraries*, page 411. ACM, June 2004.
- [7] Bradley P Allen, Jeffrey M Greif, David L Adam, John B Jensen, Michael W Lo, and Cormac Twomey. Online predictive memory, June 20 2000. US Patent 6,078,918.
- [8] Bradley P Allen. Autonomous learning and reasoning agent, December 22 1998. US Patent 5,852,814.
- [9] Bradley P Allen. Autonomous learning and reasoning agent, December 17 1996. US Patent 5,586,218.
- [10] Bradley P Allen and S Daniel Lee. Case-based reasoning system, December 3 1996. US Patent 5,581,664.
- [11] Brad Allen, John Jensen, Jay Nelson, Brian Ulicny, Kristina Lerman, and Linda Rudell-Betts. Web-Compass: an Agent-Based Metasearch and Metadata Discovery Tool for the Web. In *Proceedings of the 19th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval*, page 339. ACM, August 1996.
- [12] Bradley P Allen. Case-Based Reasoning: Business Applications. *Communications of the ACM*, 37(3):40–43, February 1994.
- [13] Bradley P Allen and S Daniel Lee. A Knowledge-Based Environment for the Development of Software Parts Composition Systems. In *Proceedings of the 11th International Conference on Software Engineering*, pages 104–112. ACM, May 1989.
- [14] Bradley P Allen and J Mark Wright. Integrating Logic Programs and Schemata. In *Proceedings of the Eighth International Joint Conference on Artificial Intelligence*, pages 340–342. Morgan Kaufmann Publishers Inc., August 1983.
- [15] Mark S Fox, Bradley P Allen, Stephen F Smith, and Gary A Strohm. ISIS: A Constraint-Directed Reasoning Approach to Job-Shop Scheduling. Technical Report CMU-RI-TR-83-8, Carnegie-Mellon University, June 1983.
- [16] Mark S Fox, Bradley P Allen, and Gary Strohm. Job-Shop Scheduling: an Investigation in Constraint-Directed Reasoning. In *Proceedings of the Second AAAI Conference on Artificial Intelligence*, pages 155–158. AAAI Press, August 1982.