

Dr. Yan Zhao's Inventions, Publications, and Presentations

PATENTS & INVENTION DISCLOSURES

- 1) Zhao, Y. "Method and system to register a user on an application system", US Patent 7,373,374 May 2008.
- 2) Zhao, Y. "Common User Profile Server and Method", US Patent 6,944,677, Sept. 2005.
- 3) Zhao, Y. "A Method and an Apparatus for Providing Personalized Service", US Patent 6,889,222 May 2005.
- 4) Zhao, Y. "Two Level Content Distribution System", US Patent 6,081,840 June, 2000.
- 5) Zhao, Y. "Concurrent Access Control in Stateless Network Computing Service System", US Patent 6,035,404 March 2000.
- 6) Zhao, Y. "Multi-Level Category Dynamic Bundling for Content Distribution", US Patent 5,920,864 July 1999.
- 7) Zhao, Y. "A Client/Server Two-Way Communication Framework under HTTP", US patent pending 20020107910.
- 8) Zhao, Y. "An Asset Management Mechanism", patent pending, Aug., 2000.
- 9) Zhao, Y. "Apparatus and Method for Using a Proxy Server for Web Collaboration", patent pending, Aug., 2000. Zhao, Y. and Okita, Glen "A Method and an Apparatus for A Data Collection System ", patent application, aspect Communications, July, 2000.
- 10) Zhao, Y. "An Efficient Mechanism for Resource Management and Monitoring in Customer Contact Center", invention disclosure, Aspect Communications, Oct. 1999.
- 11) Zhao, Y. "A Object Service System based on Distributed Data Repositories", invention disclosure, IBM Corp. Jan. 1998.
- 12) Zhao, Y. "A Server-side Proxy for Common Web Services", invention disclosure, IBM Corp., July, 1997.

RECENT AND SELECTED PRESENTATIONS

- 1) "Cloud Computing and Application Architectures with Service Orientation", BIT's 3rd Annual World Congress of Cloud Computing 2014, <http://www.bitcongress.com/CloudCon2014/Program2.asp>, June 18 – 21, 2014.
- 2) "Cloud Computing Model as Service Oriented Architecture", the Open Group Conference, Philadelphia, July 15-18, 2013.
- 3) "Enterprise Architecture vs. Collection of Architectures in Enterprise", the Open Group Conference, Washington D.C, July 16-20, 2012.
- 4) "Inter-Enterprise Architecture", the Open Group Conference, San Diego, CA, Feb. 7 – 11, 2011.
- 5) "Service Oriented Infrastructure and Cloud Computing", MITRE Corporation, 2010.
- 6) "Integrate IT Strategic Planning with Performance Measurement", MITRE Technical Exchange, Sept. 11, 2009.
- 7) "Service Oriented Enterprise Architecture and Service Oriented Enterprise", The 23rd Open Group Enterprise Architecture Practitioner's Conference, Toronto, Canada, July 20 – 22, 2009.

- 8) "How SOA Can Help Enterprise Architecture Practice", Enterprise Architecture Conference (IT & Business Alignment Forum), Fall 2008, Las Vegas, Nov. 10 – 13, 2008.
- 9) "Service Oriented Infrastructure Framework", 2008 IEEE Congress on Services, Hawaii, July 8 -11, 2008.
- 10) "Service Oriented Infrastructure for Enterprise", The 17th Open Group Enterprise Architecture Practitioner's Conference, San Francisco, CA, Jan 28 – Feb. 1, 2008.
- 11) "Service Oriented Enterprise Architecture", IASA IT Architect Regional Conference, Washington, D.C. October 8 – 9, 2007.
- 12) "[Let's Complete Each Other: Enterprise Architecture and SOA](#)", Enterprise Architect Summit 2007, Rancho Mirage, CA, May 20 – 22, 2007.
- 13) "[Let's Complete Each Other - EA and SOA](#)", Open Group Enterprise Architecture Practitioners Conference, San Diego, CA, January 29 – February 2, 2007.
- 14) "Enterprise Service Oriented Architecture (ESOA) Adoption Reference", IEEE SOA Summit 2006, Chicago, Sept. 18 – 22, 2006.

SELECTED PUBLICATIONS

- 1) Zhao, Y. "Enterprise Architecture and SOA", White Paper, ArchiTech Consulting LLC, Jan. 2013.
- 2) Zhao, Y. "The New Generation IT Operating Model", White Paper, ArchiTech Consulting LLC, July, 2012.
- 3) Zhao, Y. "Inter-Enterprise Architecture for Cloud and Service Adoption", accepted by 2011 IEEE World Congress on Services, Washington D.C. July 5-10, 2011.
- 4) Zhao, Y. "Service Oriented Infrastructure Framework", 2008 IEEE Congress on Services, Hawaii, July 8 - 11, 2008.
- 5) Zhao, Y. "EA and SOA: A Partnership", Perspectives of IASA Special Issues: Enterprise Architecture – A 20Years Retrospective, *International Association of Software Architects*, April 2007.
- 6) Zhao, Y. "Architecture Description Is Really Matters", *International Association of Software Architects*, Microsoft, Jan. 2007.
- 7) Zhao, Y. "An Integrated Approach for Enterprise Architecture Federation, Segmentation and Service Orientation", White Paper, October, 2006.
- 8) Zhao, Y. "Enterprise Service Oriented Architecture (ESOA) Adoption Reference", *Proceedings of 2006 IEEE International Conference on Services Computing*, Sept. 2006.
- 9) Zhao, Y. "Service Oriented Architecture (SOA) Solution Reference for HHS", White Paper, United States Department of Health and Human Services, January, 2006.
- 10) Zhao, Y. "WebEntree - A Single Login Web Service Aggregator", *IBM Systems Journal*, Nov. 1998, p584-595.
- 11) Zhao, Y. "A Single Login Web Service Integrator - WebEntrance", the Sixth International World Wide Web Conference, April, 1997.
- 12) Zhao, Y. and Rockwood, A. "Multi-Sided Surface Macro-patch Generation via Moving Average", SIGGRAPH 95, August 6 - 11, Los Angeles.
- 13) Zhao, Y. "Multi-Sided Surface Patch Generation and Vertex Blending", Technical Report, IBM Santa Teresa Lab., TR03.610, April 1995.

- 14) Zhao, Y. and Rockwood, A. "A Convolution Approach to N-sided Patches and Vertex Blending" in N. Sapidis ed., *Designing Fair Curves and Surfaces : Shape Quality in Geometric Modeling and CAD*, SIAM, Philadelphia, PA., 1994, 295-304.
- 15) Zhao, Y. and Rockwood, A. "N-Sided Polynomial Surface Patch Generated from Convolution Concept", *Proceedings of International Conference Pacific Graphics'94/CADDM'94*, August 1994, 187-195.
- 16) Zhao, Y. "Report Builder for Database Application Developer", Technical Report, IBM Santa Teresa Lab., TR03.556, April 1994.
- 17) Zhao, Y. and Renaut, R. "Visualization of Realistic Elastic Waves" *Proceedings of 13th IMACS world congress*, Dublin, Ireland, July 1991.
- 18) Zhao, Y. "The Construction of an Interactive Computer Graphics Package -- PCG", 3rd National Conference on Computer Graphics & Database System, Jinan, P. R. China, October, 1987. (in Chinese)
- 19) Zhao, Y. *Introduction and Development on TEK 470 Computer Graphics Systems*, Beijing University of Posts and Telecommunications, P. R. China, November 1986. (in Chinese)
- 20) Zhao, Y. "An Algorithm for the State Assignment Problem for Incompletely Specified Sequential Machines", *Journal of Beijing University of Posts and Telecommunications*, 1986, No. 3. (in Chinese).

Ph.D. DISSERTATION

"Multi-Sided Surface Patch Generation and Vertex Blending", Department of Computer Science and Engineering, Arizona State University, February, 1995.

MASTER THESIS

- 1) "Visualization of Realistic Elastic Waves", Mathematics Department, Arizona State University, February, 1991.
- 2) "State Assignment to Incompletely Specified Sequential Machines", Beijing University of Posts & Telecommunications, 1985.