Yinong Chen, PhD

http://www.public.asu.edu/~ychen10/

Professional Preparation

Chongqing University, China	Software Engineering	Bachelor	1982
Chongqing University, China	Computer Science	Master	1984
Karlsruhe Institute of Tech, Germany,	Computer Science	Ph.D.	1993
Karlsruhe Institute of Tech, Germany,	Computer Science	Postdoc	1993/1994
LAAS-CNRS, Toulouse, France,	Computer Science	Postdoc	1995/1996

Appointments

2001-present	Lecturer, Senior Lecturer, and Principal Lecturer, School of Computing, Informatics, and Decision Systems Engineering, Arizona State University, Tempe, AZ
1994-2000	Lecturer and Senior Lecturer (tenured), School of Computer Science, University of the Witwatersrand (Wits), Johannesburg, South Africa
1985-1988	Lecturer, Dept. of Computer Science, Chongqing University, China

Products

Five Products Most Closely Related to the Project

1. Yinong Chen, Service-Oriented Computing and System Integration: Software, IoT, Big Data, and AI as Services, 6th edition, Kendall Hunt Publishing, 2018, ISBN 9781524948191.
2. Yinong Chen, Gennaro De Luca, ASU VIPLE, a free software development environment for K-12 and college freshman students to develop robotics programs, documents and software download available at: http://neptune.fulton.ad.asu.edu/VIPLE/
3. Yinong Chen, Hualiang Hu, "Internet of Intelligent Things and Robot as a Service", Simulation Modelling Practice and Theory, Volume 34, May 2013, Pages 159–171.
4. W.T. Tsai, Yinong Chen, Xin Sun, Calvin Cheng, Gary Bitter, Mary White, "Service-Oriented Computing", Learning & Leading with Technology, May 2008, pp. 28-30.
5. W.-T. Tsai, W. Li, J. Elston, Yinong Chen, Collaborative Learning Using Wiki Web Sites for Computer Science Undergraduate Education: A Case Study, IEEE Trans. on Education, Vol. 54, No.1, 2011, pp. 114 - 124.

Five Other Significant Products

1. Yinong Chen, Introduction to Programming Languages, Programming in C, C++, Scheme, Prolog, C#, and SOA (5th Edition), Kendall Hunt Publishing, 2017, ISBN 978-1-5249-1699-2
2. Yinong Chen, Gennaro De Luca: " Technologies for developing a smart city in computational thinking ", International Journal of Simulation and Process Modelling (IJSPM), Vol. 13, No. 2, 2018, pp. 91 – 101
3. Yinong Chen: "Analyzing and visual programming internet of things and autonomous decentralized systems" , Simulation Modelling Practice and Theory Volume 65, June 2016, pp. 1-10
4. Yinong Chen and Yoshiaki Kakuda, Autonomous decentralized systems in web computing environment, Int. J. Critical Computer-Based Systems, Vol. 2, No. 1, 2011, Pages 1-5.
5. Yinong Chen, Gennaro De Luca: "VIPLE: Visual IoT/Robotics Programming Language Environment for Computer Science Education" , IPDPS Workshops 2016: 963-971.

Synergistic Activities

1. Innovations in teaching and training. Developed the freshman course "CSE101 Introduction to Computer Science and Engineering" in 2006 to address the CS students enrollment crisis. Use visual programming language and robotics programming to bring hands-on experiments and excitement to the first computing class. CSE101 was extended to "FSE100 Introduction Engineering" in 2011. The course becomes a required course of all engineering students in ASU Fulton Schools Engineering. Received Teacher of the Year Awards for academic years 2007-2008 and 2008-2009, School of Computing, Informatics, and Decision Systems Engineering, Arizona State University.
2. Development teaching tools. Like many schools, ASU's CSE101 and FSE100 used Microsoft Robotics Developer Studio and VPL. However, Microsoft stopped the development and support to the tools. I developed ASU-VPL programming environment to replace Microsoft Robotics Developer Studio and VPL, which supports ASU courses and other schools that used Microsoft Robotics Developer Studio and VPL. documents and software download available at: http://venus.eas.asu.edu/WSRepository/ASU-VPL/
3. Development of high school computing curriculum. Sponsored by the US Department of Education, developed a robotics and service-oriented computing curriculum for high schools. Pilot-taught the course in Coronado High School for two semesters, and trained over 50 high school teachers to teach this course. Teach the course contents in high school 9Up Summer Robotics Camp and middle school 7Up Summer Robotics Camp, as a part of the school's outreach activities.
4. Development of industry relevant courses. For our Software Engineering Concentration developed two new courses that are relevant to the current industry applications: "CSE445 Distributed Software Development" and "CSE446 Software Integration and Engineering". The courses teach service-oriented software development and workflow and component-based software integration. A textbook is development for the two courses.
5. Service to the scientific and engineering community. Have served as an area editor of the Elsevier Journal: Simulation Modeling Practice and Theory since 2006; Area editor of the Simulation: Transactions of the Society for Modeling and Simulation International from 2006 to 2010; Area editor of the International Journal of Simulation and Process Modelling (IJSPM) since 2005; Member of the Editorial Board of the Journal of Systems and Software (JSS) since 2004; Guest editor in Simulation journal Special issue on SOA Modeling and Simulation, 2007; Guest editor in IEICE/IEEE Transactions on Information & Systems, Vol. E84-D, No. 10, 2001. Have been the program chair of a number of conferences, including ISASD 2015, ISADS 2013, ISADS 2011 ADSN 2010. Keynote speech in the in the 13th IEEE Joint International Computer Science and Information Technology Conference

Collaborators and Affiliations

Collaborators
Farokh Bastani (University of Texas, Dallas)
Tsai, Wei-Tek (Beihang University, China)

Co-Editors
Karatza, Helen (Aristotle University of Thessaloniki, Greece).
Mori, Kinji (Waseda University, Japan)

Graduate Advisors and Postdoctoral Sponsors

Ph.D. Adviser: Winfried Görke (Karlsruhe Institute of Technology, Germany)
Postdoc Adviser (Jean Arlat, LAAS-CNRS, Toulouse, France)

Thesis Advisor and Postgraduate-Scholar Sponsor.

Drown, Garrett (Intel, USA).
Walliman, Garret (Arizona State University)
Ganneo De Luca (Arizona State University)
Matthew De La Rosa (Arizona State University)