Prof. Dr. Achim P. Karduck,

Furtwangen University – The Black Forest University

Selected Conference Organization and Publications

Sustainability Events with Professor Ernst Ulrich von Weizsäcker

Since 2019, "Afternoons about The Future" could be conducted together with Professor Ernst Ulrich von Weizsäcker. They were complemented by thinking and sustainability workshops with the students, conducted together with Wolfgang Gräther from the Fraunhofer Institute for Information Technology.

On specific topics on "Energy about The Future", further renowned experts could be involved. In 2023, Professor Andreas Bett (Head of Fraunhofer ISE, Europe´s Largest Solar and Hydrogen Research Institute), and in 2024 Professor Christof Wittwer (Director System Integration, Fraunhofer ISE) together with Dr. Franz Alt (journalist and best seller author).

Since the events and debates cover topics of long-term relevance, they are available as videos. **Please klick on the pictures below for the youtube-video and playlist.**

Cadenabbia Conference - Trust and Well Being in Our Digital Age

The international conference DEBEST (Digital Ecosystems, Blockchain Evolution, and Sustainable Transformation) took place 2023 at Villa la Collina in Cadenabbia. "Trust in Our Digital Age" was the focus. The DEBEST Cadenabbia Agenda was defined by the participants.

The keynotes and debates were video captured. Please klick on the pictures for the videos.

Selected Conference Organization

General Co-Chair, **DEBEST 2023** (Digital Ecosytems, Blockchain Evolution, and Sustainable Transformation) with subsequent Innovation Adoption program, Oct. 18-22, Cadenabbia, Italy (https://debest.tech)

General Co-Chair, **IEEE DEST 2013** (Int. Conf. on Digital Ecosystems and Technologies), July 24-26 2013, Menlo Park, USA

Research context of the above two conferences

The above mentioned Cadenabbia Conference (DEBEST 2023) took place in the tradition of the IEEE "Digital Ecosystems, Science, and Technologies" conference of the 8th series. It was sponsored by the IEEE Industrial Electronic Society from 2007. The conference had emerged at the same time as the EU 6th Framework Initiative in 2006 on Digital Business Ecosystems. Since 2007, this conference series has extended the concepts and expanded the studies across Europe, Asia Pacific, and North America.

I had the honour to serve four times as General Co-Chair (see selected conference list below) together with Professor Elizabeth Chang from Australia, Professor Ernesto Damiani (Milano and Abu Dhabi), and Professor Leila Ismail (UAE).

Innovation Workshops were organized together with Sinan Tumer, who overlooked the operations across 18 SAP research centers and focused on SAP's R&D operations. He launched the SAP Co-Innovation Lab at SAP's America headquarters in Newtown Square.

Professor Lotfi Zadeh from UC Berkeley University was a strong supporter as well. He founded the 1st Computer Science Degree worldwide and is the "Father of Fuzzy Logic".

Please klick on piture besides for an impression about the keynote speakers of the Silicon Valley Conference.

Professor Lotfi Zadeh and further keynote speakers of DEST in Silicon Valley about "Our Digital Ecosystem and Sustainable Transformation"

- General Co-Chair, IEEE Innovations in IT 2015 (Special Theme – Smart Living Cities, Big Data, Sustainable Development), November 1-3 2013, Dubai, UAE (http://www.it-innovations.ae/iit2015/)
- General Co-Chair, IEEE DEST 2012 (Int. Conf. on Digital Ecosystems and Technologies), June 18-20 2012, Campione, Italy
- Innovation Adoption Chair: IEEE DEST 2012 (Int. Conf. on Digital Ecosystems and Technologies), June 18-20 2012, Campione, Italy
- Track Smart Grids and Green IT, CUBE 2012, Int. Conference and Exhibition, Sept. 3-5 2012, Pune, India.
- Workshop Co-Chair, IEEE ICEBE 2012 (Int. Conf. On eBusiness Engineering),Workshop on Service-Oriented Knowledge Management and Business Intelligence (SOKMBI'12), Sept. 9-12 2012, Hangzhou, China

- Innovation Adoption Chair: IEEE DEST 2011 (Int. Conf. on Digital Ecosystems and Technologies), Daejon, Korea
- General Co-Chair, IEEE DEST 2010 (Int. Conf. on Digital Ecosystems and Technologies), Dubai, U.A.E.
- Innovation Adoption Chair: IEEE DEST 2010 (Int. Conf. on Digital Ecosystems and Technologies), Dubai, U.A.E.
- Special Sessions and Track Chair: IEEE DEST 2009 (Int. Conf. on Digital Ecosystems and Technologies), Istanbul, Turkey
- Track-Chair Collaborative Systems, IEEE DEST 2008 (Int. Conf. on Digital Ecosystems and Technologies), Phitsanulok, Thailand.
- Workshop Chair: IEEE ICEBE 2010 (Int. Conf. on eBusiness Engeneering), BIMA2010, Shanghai, China
- Workshop Chair: IEEE ICEBE 2009 (Int. Conf. on eBusiness Eng.), BIMA2009, Macau, China
- Workshop Chair: IEEE ICEBE 2008 (Int. Conf. on eBusiness Eng.), BIMA2008, Xian, China
- Steering Committee Member, CollECTeR 2007 (Collaborative Electronic Commerce Technology and Research), 10th Anniversary Conference, Melbourne, Australia.
- General Co-Chair, CollECTeR Europe 2006 (Collaborative Electronic Commerce Technology and Research), Collaborative Business, Basel, Switzerland.
- General Chair and Program Co-Chair, CollECTeR (Collaborative Electronic Commerce Technology and Research) Europe 2005 (IEEE sponsored), Collaborative Business, June Furtwangen, Germany.
- Panel Chair Collaborative Business, 8th Pacific-Asia Conference on Information Systems (PACIS 2004), Shanghai, China.

- Editorial Board member, Cyber Engineering, IEEE Transactions on Industrial Electronics.
- Editorial Board member, Journal of Theoretical and Applied Electronic Commerce Research (JTAER), www.jtaer.com

Selected Publications

- Zipperle, M., Becherer, M., Zhang, Y., Karduck, A.P., Chang, E., Dillon, T.: *(2024):* "Resilient Cybersecurity: Challenges and Opportunities", Special Issues on Digital Transformation and Sustainability, International Journal of Engineering Intelligent Systems (EIS), ISSN 1472 8915, Vol 32, #1, Jan 2024
- Becherer, M., Zipperle, M., Hussain, O.K., den Hartog, F., Chang, E., Karduck, *A.P. (2024):* "Trustworthy Collaboration for Sustainable Transformation", Special Issues on Digital Transformation and Sustainability, International Journal of Engineering Intelligent Systems (EIS), ISSN 1472 8915, Vol 32, #1, Jan 2024
- Becherer, M. Zipperle, M., Karduck, A. P. (2020): "Intelligent Choice of Machine Learning Methods for Predictive Maintenance of Intelligent Machines", in International Journal of Computer Systems Science and Engineering Vol 35 No 2 Mar 2020

- Zipperle, M., Karduck, A. P., Ko, I. (2020): “Context-Aware Transfer of Task-Based IoT Service Settings”, in Intelligent Systems Conference (IntelliSys), 3-4. September, Amsterdam, Netherlands
- Becherer, M., Karduck, A. P. (2020): “Agent-Based Simulation for Testing Vehicle-On-Demand Services in Rural Areas”, in Intelligent Systems Conference (IntelliSys) 2020, 3-4. September in Amsterdam, Netherlands
- Zipperle, M. Becherer, M., Karduck, A. P. (2020): “Speech Triggered Mobility Support And Privacy”, in International Conference on Intelligent Information Processing (IPP) 2020, 3-6 July in Hangzhou, China
- Ismail, L., Materwala, H., Karduck, A.P., Adem, A. (2020): “Requirements of Health Data Management Systems for Biomedical Care and Research: Scoping Review”, Medical Journal of Internet Research, Jul 020;22(7).
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- Eisfeld, A., Karduck A.P. (2012): “Complex Environment Evolution – Challenges with Semantic Service Infrastructures”, IEEE International Conference on Digital Ecosystems and Technologies, (DEST 2012), June 18-20 2012, Campione, Italy.
- Proskurin, S., Karduck A.P. (2012): “Smart Camp: Building Scalable and Highly Available IT-Infrastructures”, IEEE International Conference on Digital Ecosystems and Technologies, (DEST 2012), June 18-20 2012, Campione, Italy.
- Sienou, A., Karduck A.P. (2012): “Logistic Challenges in Developing Countries – An analysis of Burkina Faso´s national plan for disaster prevention and response”, IEEE International Conference on Digital Ecosystems and Technologies, (DEST 2012), June 18-20 2012, Campione, Italy.
- Fabbricatore C., Karduck A.P. (2012): “Machine Learning for Resource Management in Smart Environments”, IEEE International Conference on Digital Ecosystems and Technologies, (DEST 2012), June 18-20 2012, Campione, Italy.
- Rietsche, R., Russell, G., Karduck A.P. (2011): “Creating of an Online Virtual CISCO Router Learning Environment”, Computer and Advanced Technology in Education (CATE) 2011, July 11-13 2011, Cambridge, UK.
- Fabbricatore, C., Zucker, M., Ziganki, S., Karduck A.P. (2011): “Towards an unified architecture for smart home and Ambient Assisted Living solutions: A focus on elderly people.”, IEEE International Conference on Digital Ecosystems and Technologies, (DEST 2010), May 31 – June 3 2011, Daejon, Korea.
- Oslislo, L., Talevski, A., Karduck, A.P., (2011): “Smart Camp: Benefits of Media and Smart Service Convergence“, 25th IEEE International Conference on Advanced Information Networking and Applications (AINA 2011), March 22-25 2011, Singapore.
- Sienou, A., Lamine, E., Pingaud, H., Karduck, A.P. (2010): “Risk Driven Process Engineering in Digital Ecosystems: Modelling Risks”, IEEE International Conference on Digital Ecosystems and Technologies, (DEST 2010), April 12-15 2010, Dubai, U.A.E.
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- Roth, J.P., Karduck, A.P. (2009): “Eco-e-Trading: Chances and Potentialities of Digital Ecosystems in the Trading of Environmental Contingents in Neighbourhoods”, IEEE International Conference on Digital Ecosystems and Technologies, (DEST 2009), May 31 – June 3 2009, Istanbul, Turkey
- Wolfert, C., Haemmerle, J., Karduck, A.P. (2009): „Network Traffic Analysis in Service Ecosystems”, IEEE International Conference on Digital Ecosystems and Technologies, (DEST 2009), May 31 – June 3 2009, Istanbul, Turkey
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