

Dipl.-Biol.

Birgit Frida Stefanie Gersbeck-Schierholz

Birgit Gersbeck-Schierholz is a senior researcher and information technology specialist. She holds an University-Diplom degree in Biology from the University of Hannover, Germany. She is on duty at the Leibniz Universität Hannover, Germany on a permanent post, focussing on image processing and teaching undergraduate courses. She is coordinating the information technology education program at the central IT Services of the Leibniz Universität Hannover.

Birgit is in professional practice for over two decades. She started her career in 1987 as a scientific assistant at the Institut für Pflanzenkrankheiten und Pflanzenschutz, Fakultät für Gartenbau, Leibniz Universität Hannover (Institute for Plant Diseases and Plant Protection, Horticulture Department, University of Hannover).

She continued her professional work at the computer security department of the Regionales Rechenzentrum für Niedersachsen (RRZN), University of Hannover in 2001, collecting extensive experiences in a large number of implementations, concentrating on the field of computer security consultancy and teaching courses on cryptographic techniques and security. Birgit was the initial coordinator and head of the Leibniz Universität Hannover Certification Authority (UH-CA). She is member of the society of informatics (GI, Gesellschaft für Informatik), Germany.

Birgits' scientific focus is on natural sciences, computer security sciences, and informatics, especially interdisciplinary sciences, global public key infrastructure, public health and the new biology. She acted as scientific Peer Reviewer, Editorial Advisory Board, and Editorial Board member for international publications and books, scientific symposia, journals, and conference proceedings, e.g., for the Symposium on Advanced Computation and Information in Natural and Applied Sciences, with the American Institute of Physics conference proceedings, for IGI Global publications, and for the TMC Academic Journal Singapore. Birgit also contributed repeatedly to the Knowledge in Motion long-term project and to the Delegates' Summit of the Symposium on Advanced Computation and Information in Natural and Applied Sciences (SACINAS) at the International Conference of Numerical Analysis and Applied Mathematics (ICNAAM).

She supports the International Academy, Research, and Industry Association (IARIA) since 2011, providing service to the scientific community and taking a number of roles. Birgits' work was first presented with IARIA conferences at the DigitalWorld held in Gosier, Guadeloupe, France (2011). She is an active member of the Peer Review and Technical Program Committees for The International Conference on Advanced Communications and Computation (INFOCOMP), GEOProcessing, BIOTECHNO, and CYBERLAWS conferences and editor and co-editor of several conference proceedings, e.g., VALID 2015, MMEDIA 2016, SOTICS 2016, BIONATURE 2016, GREEN 2016, ACHI 2016, and BRAININFO 2016.

Birgit is the Liaison and Special Advertising Board Chair of the International Academy, Research, and Industry Association and the co-Editor-in-Chief of the IARIA International Journal on Advances in Security. She is member of the advisory committee of The International Conference on Bioinformatics, Biocomputational Systems and Biotechnologies (BIOTECHNO).

