IARIA Fellow

Claus-Peter Rückemann

Dr. rer. nat. Claus-Peter Rückemann is a lecturer and researcher at the Leibniz Universität Hannover (LUH) and at the Westfälische Wilhelms-Universität Münster (WWU), Germany. He holds an University-Diplom degree in geophysics and a Doctorate degree for natural sciences in geoinformatics, informatics, and geosciences from the Faculty of Mathematical and Natural Sciences, WWU.

Dr. Rückemann teaches Information Science, Security, and Computing at the Institute for Legal Informatics (IRI), LUH Faculty of Law, in the European Legal Informatics Study Programme (EULISP), in the postgraduate LL.M. programme in IT-Law and Intellectual Property Law, awarded by the German Academic Exchange Service (DAAD) and the Donors' Association for the Promotion of the Sciences and Humanities with the "Top 10 International Master's Degree Courses, Made in Germany" DAAD's Seal of Excellence.

He is leading scientific advisor for national and international projects, head of research of the LX Foundation, the director of the GEXI Consortium, and scientific consultant for High Performance Computing (HPC), natural sciences, geosciences, and Information Systems (IS) within the North-German Supercomputing Alliance (HLRN).

He studied geophysics, theoretical and applied physics, mathematics, computer science, geoinformatics, numerics, geology, geosciences, mineralogy, aeronomics, magnetosphere physics, meteorology, archaeology, philology, and philosophy. His main interests are scientific information systems, HPC research and management, parallel computing, legal informatics, polar and antarctic research, seismics, research expeditions, scientific data processing, analysis, and raytracing, information science, security, media and business management, future internet, high performance search engines, governance, and e-government.

For the last two decades he worked for university institutes, medical institutions, and scientific computing centres, as project manager, tutor, reporter to the media, in charge of research development, coordinator and supervisor of interdisciplinary research projects. He participated in many research projects funded by the German Federal Ministry of Education and Research (BMBF), the German Research Association (DFG), European Framework Programmes (FP), and Public-Private-Partnerships (PPP). He is the author of scientific research databases, processing algorithms, applications on geo, energy, and resources exploration and management, and several informatics, interdisciplinary, e-learning, and collaboration frameworks, and founder and representative of numerous research projects. He was the initial coordinator of the three sections Monitoring, Accounting, and Billing in the DGI, for establishing the National German D-Grid in the German e-Science Initiative. Currently he is also on duty for the HLRN, managing the largest supercomputer resources in Northern Germany, being a research associate at the LUH and working at the Computing Centre for Lower Saxony (RRZN). He is a lifetime scientific member of the University of Münster and the University of Hannover.

Dr. Rückemann is the author of numerous scientific contributions, nationally and internationally presented and published by peer reviewed papers, conference proceedings, scholarly and professional journals, invited articles and book chapters, invited international talks and lectures. He serves as advisory committee and board member, scientific, program, evaluation, and steering committee member for international conferences and commissions, advisor for scientific reviews, editor, and for international peer reviews. He is an active supporter of IARIA, being TPC committees member, served as peer reviewer and chairman in IARIA/IEEE conferences, GEOProcessing and CYBERLAWS, and providing international dissemination support.

His research on HPC, integrated High End Computing (HEC), Distributed Computing (DC), and Information Systems, visualisation, security, and international relations and collaboration in European and international context received Best Paper Awards at the GEOWS and CYBERLAWS / ICDS conferences. He contributed invited papers to several IARIA journals and was invited panelist for the CYBERLAWS expert panel. His recent contributions under the auspices of IARIA have included synergistic activities in connection with international informatics and law related conferences for state of the art improvement and future conjoint scientific and industrial objectives in new architectures for integrated High Performance Computing and Information Systems.