



YARIB NEVAREZ received the B.E. (Hons) degree in electronics from the Durango Institute of Technology, Durango, Mexico, in 2009, and the M.Sc. degree in Embedded Systems Design from the University of Applied Sciences Bremerhaven, Bremen, Germany, in 2017. He is currently pursuing a PhD degree with the Institute of Electrodynamics and Microelectronics, University of Bremen, Germany. His research interest is focused mainly on System-on-Chip architectures and hard-

ware implementation for deep learning accelerators in Embedded Systems. During his professional experience, he served as a Senior Embedded Software Engineer at Texas Instruments, IBM, Continental Automotive, TOSHIBA, and Carbon Robotics. He has designed and developed software architectures for graphic calculators, automotive systems, robotic drivers, and more.



DAVID ROTERMUND started his scientific career as a chemical technical assistant in 1992 and received a pre-diploma in electrical engineering at the Hochschule Bremen (City University for Applied Science) in 1996. In 2002, he finished his studies of physics at the University of Bremen with a diploma (specialization in neuroscience and solid state physics). In 2007 he received his PhD "Extraction of information from the dynamical activities of neural networks". Among other neu-

roscience projects, he participated in several project in the field of neuroprosthetics like the German-Israeli joint project "Models and Experiments towards Adaptive Control of Motor Prostheses" (METACOMP), the research focus Neurotechnology at the University of Bremen, and the Creative Unit "I-See: The artificial eye – chronic wireless interface to the visual cortex". In the BMBF project KALOMED, where the goal was to design a fully wireless recording system that can be implanted under the skull of an user, he worked as project organizer and hardware/ software/ firmware designer as well as data miner. He will be the co-organizer of the upcoming Era-Net Neuron (a joint Canadian / EU project) for the development of advanced techniques in the field of visual cortex prosthesis. Beside his research in the field of neuroprosthetics, he is keenly interested in information processing using spiking neuronal networks.



KLAUS R. PAWELZIK received his PhD in the field of Nonlinear Dynamics in 1990. From 1991 till March 1998 he was research assistant at several well-known institutes in Germany and the US. Since April 1998 he is a tenured professor for Theoretical Physics and Theoretical Biology at the University of Bremen. He works mainly on topics in Theoretical Neuroscience, but also on problems in Neuro-technology and studies models of other complex adaptive systems. His many publications

underline his expertise in these fields. Currently he is the director of the Center of Cognitive Sciences at the University of Bremen and has raised a number of third-party funds, among them several in the field of Neurotechnology. There he recently filed a patent with the title "Artificial neural network data processing apparatus and data processing method".



ALBERTO GARCIA-ORTIZ obtained the diploma degree in Telecommunication Systems from the Polytechnic University of Valencia (Spain) in 1998. After working for two years at Newlogic in Austria, he started the Ph.D. at the Institute of Microelectronic Systems, Darmstadt University of Technology, Germany. In 2003, he received from the Department of Electrical Engineering and Information Technology of the university the Ph.D. degree with "summa cum laude."

From 2003 to 2005, he worked as a Senior Hardware Design Engineer at IBM Deutschland Development and Research in Böblingen. After that he joined the start-up AnaFocus (Spain), where he was responsible for the design and integration of AnaFocus" next generation Vision Systems-on-Chip. He is currently full professor for the chair of integrated digital systems at the university of Bremen. Dr. Garcia-Ortiz received the "Outstanding dissertation award" in 2004 from the European Design and Automation Association. In 2005, he received from IBM an innovation award for contributions to leakage estimation. Two patents are issued with that work. He serves as editor of JOLPE and is reviewer of several conferences, journals, and European projects.

His interests include low-power design and estimation, communicationcentric design, SoC integration, and variations-aware design.

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