

2018 Hall Medal awarded to Kai-Uwe Schmidt

Dr. Kai-Uwe Schmidt has repeatedly made outstanding contributions concerning algebraic, analytic and probabilistic techniques for combinatorial problems in coding theory and cryptography. He has published about forty papers in the best journals, covering a substantial breadth. The hallmark of Dr. Schmidt's research is the development of novel, fundamental theory that addresses practical applications. In particular, his research on merit factor, exceptional polynomials, configurations in finite projective planes, and vector spaces over finite fields have all been influential in developing deep theory for practical problems. Dr. Schmidt is increasingly recognized as a leader in his field through invitations to speak at numerous international conferences and to join prestigious editorial boards. His nominators characterize his work as "expert," "brilliant," "extremely important," and "elegant."