Sönke Schmidt, Ph.D.

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Overview

About Sönke

Sönke Schmidt, Ph.D., is a technology specialist in the Munich office of Fish & Richardson P.C. His practice supports patent prosecution with a focus on computer science and quantum physics.

Dr. Schmidt has technical knowledge in diverse fields such as quantum computing, computer architecture, classical and quantum cryptography, machine learning, big data technologies, blockchain technologies, data storages, enterprise management systems, speech recognition and synthesis, search systems, telecommunications, network security, mobile device applications, semiconductor materials and devices, finance, and business methods.

Prior to joining Fish, Dr. Schmidt worked in the quantum information theory research group led by Prof. Reinhard Werner at the Leibniz Universität, Hannover, in the department of computing at Imperial College, London, in a start-up environment at Celonis, Munich, and at CFA (controlling and finance audit) Siemens, Munich.

Focus Areas

Services

- Patent

Education

Ph.D., Quantum Optics and Quantum Information Theory, Leibniz Universität Hannover (2012) Dissertation: Quantum-Optical Control Techniques for Atomic Motional States

Dipl. Phys., Physics, Technische Universität Braunschweig (2008) Thesis: Time-Effects in Quantum Theory

Insights

Publications

E. Torrontegui, Xi Chen, M. Modugno, S. Schmidt, A. Ruschhaupt and J. G. Muga, “Fast Transport of Bose-Einstein Condensates,” *New J. Phys*., 14, 013031 (2012)

J. Duhme, T. Franz, S. Schmidt and R. F. Werner, “Verschränkung-Schlüssel zur Quantenwelt. Quanteninformationstheorie Teil 1: Grundlagen,” *Physik in unserer Zeit*, Volume 41, issue 5 (2010)

X. Chen, A. Ruschhaupt, S. Schmidt, A. del Campo, D. Guéry-Odelin and J. G. Muga, “Fast optimal frictionless atom cooling in harmonic traps: shortcut to adiabaticity,” *Physical Review Letters 104*, 063002 (2010)

S. Schmidt, J. G. Muga and A. Ruschhaupt, “Stopping particles of arbitrary velocities with an accelerated wall,” *Physical Review A 80*, 023406 (2009)

Languages

- English
- German