

List of publications

Publications of Andreas Unterweger

Book chapters

- Knirsch, Fabian, Andreas Unterweger, Günther Eibl, and Dominik Engel: Privacy-Preserving Smart Grid Tariff Decisions with Block-Chain-Based Smart Contracts. In Rivera, Wilson (editor): Sustainable Cloud and Energy Services – Principles and Practice, chapter 4, pages 85–116. Springer International Publishing, Cham, Switzerland, September 2017, ISBN 978-3-319-62237-8. Download.
- Unterweger, Andreas: Compression Artifacts in Modern Video Coding and State-of-the-Art Means of Compensation. In Farrugia, Reuben A. and Carl James Debono (editors): Multimedia Networking and Coding, chapter 2, pages 28–49. IGI Global, Hershey, Pennsylvania, USA, January 2013, ISBN 978-1-4666-2660-7. Download.

Journal articles

- Aichhorn, Andreas, Bernhard Eitzlinger, Andreas Unterweger, René Mayrhofer, and Andreas Springer: Design, Implementation, and Evaluation of Secure Communication for Line Current Differential Protection Systems over Packet Switched Networks. International Journal of Critical Infrastructure Protection, 23:68–78, December 2018. Download.
- Aichhorn, Andreas, Andreas Unterweger, Dominik Engel, and René Mayrhofer: Investigating the Impact of Network Security on the Line Current Differential Protection System. The Journal of Engineering, 2018(15):1199–1203, October 2018. Download.
- Knirsch, Fabian, Andreas Unterweger, and Dominik Engel: Privacy-preserving Blockchain-based Electric Vehicle Charging with Dynamic Tariff Decisions. Computer Science – Research and Development, 33(1):71–79, February 2018. Download.
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- Unterweger, Andreas, Kevin Van Ryckegem, Dominik Engel, and Andreas Uhl: Building a Post-Compression Region-of-Interest Encryption Framework for Existing Video Surveillance Systems – Challenges, obstacles and practical concerns. Multimedia Systems, 22(5):617–639, October 2016. Download.

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- Unterweger, Andreas and Andreas Uhl: Slice groups for post-compression region of interest encryption in H.264/AVC and its scalable extension. *Signal Processing: Image Communication*, 29(10):1158–1170, November 2014. Download.
- Auer, Stefan, Alexander Bliem, Dominik Engel, Andreas Uhl, and Andreas Unterweger: Bitstream-Based JPEG Encryption in Real-time. *International Journal of Digital Crime and Forensics*, 5(3):1–14, September 2013. Download.
- Unterweger, Andreas, Bernadette Himmelbauer, Simon Kranzer, Peter Ott, Robert Merz, and Gerhard Jöchl: A Generic Model for Universal Data Storage and Conversion and Its Web Based Prototypical Implementation. *International Journal of Information Technology and Web Engineering*, 7(1):67–82, January 2012. Download.

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- Burkhart, Sebastian, Andreas Unterweger, Günther Eibl, and Dominik Engel: Detecting Swimming Pools in 15-Minute Load Data. In 2018 17th IEEE International Conference on Trust, Security and Privacy in Computing and Communications (TrustCom), pages 1651–1655, New York, New York, USA, August 2018. IEEE. Download.
- Unterweger, Andreas and Dominik Engel: Lossless Compression of High-Frequency Voltage and Current Data in Smart Grids. In 2016 IEEE International Conference on Big Data (Big Data), pages 3131–3139, Washington D.C., USA, December 2016. IEEE. Download.
- Unterweger, Andreas, Jan De Cock, and Andreas Uhl: Bit-Stream-Based Scrambling for Regions of Interest in H.264/AVC Videos With Drift Reduction. In 2016 International Conference on Image Processing Theory, Tools and Applications (IPTA), pages 1–6, Oulu, Finland, December 2016. IEEE. Download.
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- Knirsch, Fabian, Andreas Unterweger, Günther Eibl, and Dominik Engel: Privacy-Preserving Smart Grid Tariff Decisions with Block-Chain-Based Smart Contracts.

Technical Report 2017-01, Josef Ressel Center for User-Centric Smart Grid Privacy, Security and Control, Salzburg University of Applied Sciences, <https://www.en-trust.at/papers/Knirsch17b-t.pdf>, May 2017. Download.

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