

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

- Knirsch, Fabian, Blemens Brunner, Andreas Unterweger, and Dominik Engel: Decentralized and permission-less green energy certificates with GECKO. Energy Informatics, 3(2):1–14, February 2020. Download.
- Knirsch, Fabian, Andreas Unterweger, and Dominik Engel: Implementing a blockchain from scratch: why, how, and what we learned. EURASIP Journal on Information Security, 2019(2):1–17, December 2019. Download.
- Ferner, Cornelia, Günther Eibl, Andreas Unterweger, Sebastian Burkhart, and Stefan Wegenkittl: Pool detection from smart metering data with convolutional neural networks. Energy Informatics, 2(1):1–9, September 2019. Download.
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- Unterweger, Andreas, Fabian Knirsch, Günther Eibl, and Dominik Engel: Privacy-Preserving Load Profile Matching for Tariff Decisions in Smart Grids. *EURASIP Journal on Information Security*, 2016(21):1–17, September 2016. Download.
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- De Cock, Jan, Heinz Hofbauer, Thomas Stütz, Andreas Uhl, and Andreas Unterweger: An Industry-Level Blu-ray Watermarking Framework. *Multimedia Tools and Applications*, 74(18):8079–8101, September 2015. Download.
- Unterweger, Andreas and Dominik Engel: Resumable Load Data Compression in Smart Grids. *IEEE Transactions on Smart Grid*, 6(2):919–929, March 2015. Download.
- 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.
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- 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.
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- Unterweger, Andreas and Herbert Thoma: The Influence of Bit Rate Allocation to Scalability Layers on Video Quality in H.264 SVC. In Proceedings of the 26th Picture Coding Symposium (PCS 2007), Lisbon, Portugal, November 2007. EURASIP. Download.

Theses

- Unterweger, Andreas: Post-Compression Multimedia Security. PhD thesis, University of Salzburg, November 2014. Download.
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- Unterweger, Andreas and Andreas Uhl: Slice Groups for Post-Compression Region of Interest Encryption in SVC. Technical Report 2013-07, Department of Computer Sciences, University of Salzburg, Austria, <http://uni-salzburg.at/index.php?id=38565>, December 2013. Download.

Popular articles

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- Unterweger, Andreas, Andreas Uhl, Stefan Katzenbeisser, Roland Kwitt, and Alessandro Piva (editors): IH&MMSec '14: Proceedings of the 2nd ACM Workshop on Information Hiding and Multimedia Security, Salzburg, Austria, June 2014. ACM.