

---

## nu:view References

Last revised: August 31, 2021

### Publications regarding the development, validation and application of the AB-CT nu:view breast CT system

- [1] A. Boss. "Breast CT in women with breast implants". In: *DI Europe* 37.2 (June 2021), pp. 16–18. URL: <https://www.dieuropeweb.com/site/wp-content/uploads/2021/06/Andreas-Boss-Breast-CT-AB-CT-DIE-June-2021.pdf>.
- [2] M. Wetzl, E. Wenkel, E. Balbach, E. Dethlefsen, A. Hartmann, J. Emons, C. Kuhl, M. W. Beckmann, M. Uder, and S. Ohlmeyer. "Detection of Microcalcifications in Spiral Breast Computed Tomography with Photon-Counting Detector Is Feasible: A Specimen Study". In: *Diagnostics* 11.5 (May 2021), p. 848. DOI: [10.3390/diagnostics11050848](https://doi.org/10.3390/diagnostics11050848).
- [3] E. Bärnklau-Gooriah, V. Ruth, C. Steidling, and D. Kolditz. "Spiral Breast CT: an innovative technology for high resolution real 3D breast imaging without compression". In: *DI Europe* 36.1 (2020), pp. 70–73. URL: [https://www.dieuropeweb.com/site/wp-content/uploads/2020/03/DIEuropeFEB\\_MARCH\\_2020with-links.pdf](https://www.dieuropeweb.com/site/wp-content/uploads/2020/03/DIEuropeFEB_MARCH_2020with-links.pdf).
- [4] M. Germann, S. Shim, F. Angst, N. Saltybaeva, and A. Boss. "Spiral breast computed tomography (CT): signal-to-noise and dose optimization using 3D-printed phantoms". In: *European Radiology* (2020). DOI: [10.1007/s00330-020-07549-3](https://doi.org/10.1007/s00330-020-07549-3).
- [5] L. Heck and J. Herzen. "Recent advances in X-ray imaging of breast tissue: From two- to three-dimensional imaging". In: *Physica Medica* 79 (2020), pp. 69–79. DOI: [10.1016/j.ejmp.2020.10.025](https://doi.org/10.1016/j.ejmp.2020.10.025).
- [6] D. Pfeufer. "Automated Volume of Interest Reconstruction in Dedicated Spiral Breast-CT". MA thesis. Friedrich-Alexander-Universität Erlangen-Nürnberg, 2020.
- [7] K. Ridder. "Breast CT - a ground-breaking innovation". In: *DI Europe* 36.4 (Nov. 2020), pp. 18–21. URL: <https://www.dieuropeweb.com/site/wp-content/uploads/2020/12/Breast-CT-Ridder-AB-CT-Nov-2020.pdf>.
- [8] L. Ruby, S. Shim, N. Berger, M. Marcon, T. Frauenfelder, and A. Boss. "Diagnostic value of a spiral breast computed tomography system equipped with photon counting detector technology in patients with implants". In: *Medicine* 99.30 (2020), e20797. DOI: [10.1097/md.00000000000020797](https://doi.org/10.1097/md.00000000000020797).
- [9] V. Ruth. "Spezielle Anwendungen in der dedizierten Computertomographie". PhD thesis. Institute of Medical Physics, Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU), 2020. URL: <https://opus4.kobv.de/opus4-fau/frontdoor/index/index/docId/14237>.
- [10] V. Ruth, D. Kolditz, C. Steidling, and W. A. Kalender. "Investigation of spectral performance for single-scan contrast-enhanced breast CT using photon-counting technology: A phantom study". In: *Medical Physics* 47.7 (2020), pp. 2826–2837. DOI: [10.1002/mp.14133](https://doi.org/10.1002/mp.14133).

- 
- [11] S. Shim, N. Saltybaeva, N. Berger, M. Marcon, H. Alkadhi, and A. Boss. "Lesion Detectability and Radiation Dose in Spiral Breast CT With Photon-Counting Detector Technology". In: *Investigative Radiology* 55.8 (2020), pp. 515–523. DOI: [10.1097/rli.0000000000000662](https://doi.org/10.1097/rli.0000000000000662).
  - [12] N. Berger, M. Marcon, N. Saltybaeva, W. A. Kalender, H. Alkadhi, T. Frauenfelder, and A. Boss. "Dedicated Breast Computed Tomography With a Photon-Counting Detector: Initial Results of Clinical In Vivo Imaging". In: *Investigative Radiology* 54.7 (Mar. 2019), pp. 409–418. DOI: [10.1097/RLI.0000000000000552](https://doi.org/10.1097/RLI.0000000000000552).
  - [13] N. Berger, M. Marcon, T. Frauenfelder, and A. Boss. "Dedicated Spiral Breast Computed Tomography With a Single Photon-Counting Detector: Initial Results of the First 300 Women". In: *Investigative Radiology* 55.2 (Oct. 2019), pp. 68–72. DOI: [10.1097/rli.0000000000000609](https://doi.org/10.1097/rli.0000000000000609).
  - [14] W. A. Kalender, D. Kolditz, C. Steidling, V. Ruth, F. Lück, A.-C. Rößler, and E. Wenkel. "Technical feasibility proof for high-resolution low-dose photon-counting CT of the breast". In: *European Radiology* 27.3 (2017), pp. 1081–1086. DOI: [10.1007/s00330-016-4459-3](https://doi.org/10.1007/s00330-016-4459-3).
  - [15] A.-C. Rößler, W. A. Kalender, D. Kolditz, C. Steidling, V. Ruth, C. Preuss, S. C. Peter, B. Brehm, M. Hammon, R. Schulz-Wendtland, and E. Wenkel. "Performance of photon-counting breast computed tomography (pcBCT), digital mammography and digital breast tomosynthesis evaluating breast specimens". In: *Academic Radiology* 24 (2017), pp. 184–190. DOI: [10.1016/j.acra.2016.09.017](https://doi.org/10.1016/j.acra.2016.09.017).
  - [16] J. D. Kuttig, C. Steidling, D. Kolditz, M. Hupfer, M. Karolczak, and W. A. Kalender. "Comparative investigation of the detective quantum efficiency of direct and indirect conversion detector technologies in dedicated breast CT". In: *Physica Medica* 31.4 (2015), pp. 406–413. DOI: [10.1016/j.ejmp.2015.03.007](https://doi.org/10.1016/j.ejmp.2015.03.007).
  - [17] A. C. Rößler, E. Wenkel, F. Althoff, and W. Kalender. "The influence of patient positioning in breast CT on breast tissue coverage and patient comfort". In: *Senologie - Zeitschrift für Mammadiagnostik und -therapie* 12 (2015), pp. 96–103. DOI: [10.1055/s-0035-1553177](https://doi.org/10.1055/s-0035-1553177).
  - [18] A. C. Rößler, E. Wenkel, F. Althoff, and W. A. Kalender. "The Influence of Patient Positioning in Breast CT on Breast Tissue Coverage and Patient Comfort." In: *RöFo* 187.2 (2015), pp. 115–122. DOI: [10.1055/s-0034-1385208](https://doi.org/10.1055/s-0034-1385208).
  - [19] F. Lück, D. Kolditz, M. Hupfer, C. Steidling, and W. A. Kalender. "Experimental validation of a single shaped filter approach for CT using variable source-to-filter distance for examination of arbitrary object diameters". In: *Physics in Medicine and Biology* 59.19 (2014), p. 5691. DOI: [10.1088/0031-9155/59/19/5691](https://doi.org/10.1088/0031-9155/59/19/5691).
  - [20] C. Steidling, D. Kolditz, and W. A. Kalender. "A quality assurance framework for the fully automated and objective evaluation of image quality in cone-beam computed tomography". In: *Medical Physics* 41.3 (2014), p. 031901. DOI: [10.1118/1.4863507](https://doi.org/10.1118/1.4863507).
  - [21] F. Lück, D. Kolditz, M. Hupfer, and W. A. Kalender. "Effect of shaped filter design on dose and image quality in breast CT". In: *Phys. Med. Biol.* 58.12 (2013), pp. 4205–4223. DOI: [10.1088/0031-9155/58/12/4205](https://doi.org/10.1088/0031-9155/58/12/4205).

- 
- [22] M. Beister, D. Kolditz, and W. A. Kalender. "Iterative reconstruction methods in X-ray CT". In: *Physica Medica - European Journal of Medical Physics* 28 (2012), pp. 94–108. DOI: [10.1016/j.ejmp.2012.01.003](https://doi.org/10.1016/j.ejmp.2012.01.003).
  - [23] W. Chen, D. Kolditz, M. Beister, R. Bohle, and W. A. Kalender. "Fast on-site Monte Carlo tool for dose calculations in CT applications". In: *Med. Phys.* 36.6 (2012), pp. 2985 –2996. DOI: [10.1118/1.4711748](https://doi.org/10.1118/1.4711748).
  - [24] W. A. Kalender, M. Beister, J. M. Boone, D. Kolditz, S. V. Vollmar, and M. Weigel. "High-resolution spiral CT of the breast at very low dose: Concept and feasibility considerations". In: *Eur. Radiol.* 22 (2012), pp. 1–8. DOI: [10.1007/s00330-011-2169-4](https://doi.org/10.1007/s00330-011-2169-4).
  - [25] T. Nowak, M. Hupfer, F. Althoff, R. Brauweiler, F. Eisa, C. Steiding, and W. A. Kalender. "Time-delayed summation as a means of improving resolution on fast rotating computed tomography systems". In: *Med Phys* 39.4 (2012), pp. 2249–2260. DOI: [10.1118/1.3697533](https://doi.org/10.1118/1.3697533).

### Scientific presentations regarding the development, validation and application of the AB-CT nu:view breast CT system

- [26] M. Marcon. "EUSOBI Webinar 2.9 / Breast CT". In: *EUSOBI Webinar Series 2 // 2021 // Advancements in Mammography*. Online, July 2021. URL: <https://www.eusobi.org/breast-imaging-webinars/>.
- [27] S. Ohlmeyer. "Brust-CT: Eine Alternative?" In: *102. Deutscher Röntgenkongress*. Online, July 2021. URL: <https://www.roentgenkongress.de/de-DE/7162/programm/show/2960/Mammadiagnostik-I-Mammadiagnostik-mit-Kontrastmittel-welcher-Kontrast-ist-der-Beste-/>.
- [28] K. Ridder. "Das Mamma-CT – senologische Diagnostik in einer neuen Dimension". In: *XXI. Castroper Mammakarzinom-Meeting*. Online, Mar. 2021. URL: [https://www.linkedin.com/posts/dr-med-karsten-ridder-42162a11a\\_sehr-verehrte-frau-kollegin-sehr-geehrter-activity-6777140832228151296-0M5D](https://www.linkedin.com/posts/dr-med-karsten-ridder-42162a11a_sehr-verehrte-frau-kollegin-sehr-geehrter-activity-6777140832228151296-0M5D).
- [29] K. Ridder. "Mamma CT. La diagnostica senologica in una nuova dimensione". In: *2° Congresso Nazionale AITeRS*. Online, May 2021. URL: [https://www.aiters.it/wp-content/uploads/2019/05/NAZIONALE-AITERS-2021\\_PROGRAMMA-DEFINITIVO.pdf](https://www.aiters.it/wp-content/uploads/2019/05/NAZIONALE-AITERS-2021_PROGRAMMA-DEFINITIVO.pdf).
- [30] S. Shim. "Radiation dose estimates for a novel spiral breast CT imager". In: *Annual Meeting of Radiological Society of North America (RSNA) 2021 (accepted for presentation)*. Chicago, USA, Nov. 2021.
- [31] E. Wenkel. "Brust-CT: update and future". In: *25. Internationaler Fortbildungskurs Moderne Mammadiagnostik und -Therapie*. Online, July 2021. URL: <https://www.mammakurs-erlangen.de/de/Programm/>.
- [32] V. Ruth, D. Kolditz, C. Steiding, and W. A. Kalender. "Optimization of Photon-Counting Breast CT for Spectral Single-Scan Contrast-Enhanced Imaging: A Phantom Study". In: *European Congress of Radiology (ECR) 2020*. Vienna, Austria / Online, July 2020. URL: <https://connect.myesr.org/course/contrast-enhanced-x-ray-imaging-of-the-breast/>.

- 
- [33] R. Schulz-Wendtland. "Welche Rolle spielt das Brust-CT in der Komplementären Mammdiagnostik?" In: *Feierliche Einweihung des Brust-CTs am Universitätsklinikum Erlangen*. Erlangen, Germany, 2020.
  - [34] C. Steiding. "Physikalische Grundlagen des Mamma-CTs". In: *Feierliche Einweihung des Brust-CTs am Universitätsklinikum Erlangen*. Erlangen, Germany, 2020.
  - [35] E. Wenkel. "Bildbeispiele der Brust-CT". In: *Feierliche Einweihung des Brust-CTs am Universitätsklinikum Erlangen*. Erlangen, Germany, 2020.
  - [36] N. Berger, M. Marcon, N. Saltybaeva, W. A. Kalender, H. Alkadhi, T. Frauenfelder, and A. Boss. "Dedicated spiral-CT of the breast: initial clinical in-vivo imaging". In: *European Congress of Radiology (ECR) 2019*. Vienna, Austria, Mar. 2019. DOI: [10.26044/ecr2019/c-2888](https://doi.org/10.26044/ecr2019/c-2888).
  - [37] A. Boss. "Clinical spiral photon counting breast CT: a 3D mammography technique without painful compression - experiences with > 400 patients". In: *1st International Symposium on Photon Counting Technologies & Applications - Medical Applications, 2019*. Munich, Germany, 2019. URL: <https://directconversion.com/2019/07/05/application-innovation-centre-opens/>.
  - [38] A. Boss, N. Berger, M. Marcon, and B. Kalender. "First hand experience reading Breast CT images – best practices from University Hospital Zurich". In: *EUSOBI Mammography & beyond Course 2019*. Vienna, Austria, Feb. 2019. URL: [https://www.eusobi.org/content-eusobi/uploads/EUSOBI-Mammography-beyond-2019\\_Course-Programme.pdf](https://www.eusobi.org/content-eusobi/uploads/EUSOBI-Mammography-beyond-2019_Course-Programme.pdf).
  - [39] B. Kalender. "Erste Erfahrung bei der Einbindung einer neuen Modalität". In: *DICOM-Treffen, 2019*. Mainz, Germany, 2019. URL: <https://dicomtreffen.unimedizin-mainz.de/>.
  - [40] W. A. Kalender. "Spiral-CT and Single Photon Counting: A future-prone success story?" In: *1st International Symposium on Photon Counting Technologies & Applications - Medical Applications, 2019*. Munich, Germany, 2019. URL: <https://directconversion.com/2019/07/05/application-innovation-centre-opens/>.
  - [41] W. A. Kalender. "The different techniques behind CT of the breast". In: *EUSOBI Mammography & beyond Course 2019*. Vienna, Austria, Feb. 2019. URL: [https://www.eusobi.org/content-eusobi/uploads/EUSOBI-Mammography-beyond-2019\\_Course-Programme.pdf](https://www.eusobi.org/content-eusobi/uploads/EUSOBI-Mammography-beyond-2019_Course-Programme.pdf).
  - [42] D. Kolditz. "Technical characteristics of the first commercially available photon-counting spiral breast-CT system". In: *1st International Symposium on Photon Counting Technologies & Applications - Medical Applications, 2019*. Munich, Germany, 2019. URL: <https://directconversion.com/2019/07/05/application-innovation-centre-opens/>.
  - [43] D. Kolditz. "Technical characteristics of the first medical breast CT". In: *1st International Symposium on Photon Counting Technologies & Applications - Industrial Applications, 2019*. Munich, Germany, 2019. URL: <https://directconversion.com/2019/07/05/application-innovation-centre-opens/>.

- 
- [44] D. Kolditz, C. Steidling, V. Ruth, and W. A. Kalender. "Technical characteristics and initial clinical patient results of a photon-counting spiral breast-CT system". In: *CERN SpecXray 5 - 5th Workshop on Medical Applications of Spectroscopic X-ray Detectors*, 2019. Geneva, Switzerland, 2019. URL: <http://specxray.web.cern.ch/specxray/>.
  - [45] N. Saltybaeva, M. Marcon, N. Berger, D. Kolditz, C. Steidling, A. Boss, and H. Alkadhi. "First clinical application of spiral breast CT with photon-counting detector: patient-specific radiation dose assessment". In: *European Congress of Radiology (ECR) 2019*. Vienna, Austria, Mar. 2019. DOI: [10.1186/s13244-019-0713-](https://doi.org/10.1186/s13244-019-0713-). URL: <https://insightsimaging.springeropen.com/track/pdf/10.1186/s13244-019-0713-y>.
  - [46] D. Kolditz, C. Steidling, F. Lück, V. Ruth, and W. A. Kalender. "Dosimetry Approaches and Results for Photon-Counting Spiral Breast CT". In: *Annual Meeting of Radiological Society of North America (RSNA) 2016*. Chicago, USA, Nov. 2016. URL: <http://archive.rsna.org/2016/16010617.html>.
  - [47] A.-C. Rössler, E. Wenkel, C. Steidling, V. Ruth, S. Kratz, R. Schultz-Wendtland, C. Preuss, D. Kolditz, and W. A. Kalender. "Photon-counting breast CT (pcBCT) performance tests on specimens in comparison with digital mammography and breast tomosynthesis". In: *European Congress of Radiology (ECR) 2016*. Vienna, Austria, Mar. 2016. DOI: [10.1594/ecr2016/C-0367](https://doi.org/10.1594/ecr2016/C-0367).
  - [48] A.-C. Rössler, E. Wenkel, C. Steidling, V. Ruth, D. Kolditz, and W. A. Kalender. "High-resolution low-dose breast CT performance tests on surgical specimens in comparison with digital mammography and breast tomosynthesis". In: *Annual Meeting of Radiological Society of North America (RSNA) 2016*. Chicago, USA, Nov. 2016. URL: <http://archive.rsna.org/2016/16005976.html>.
  - [49] V. Ruth, C. Steidling, D. Kolditz, F. Lück, A.-C. Roessler, and W. A. Kalender. "Comparative Assessment of High- and Low-Contrast Detectability Performance in Digital Mammography, Breast Tomosynthesis, and Dedicated Photon-Counting Breast Computed Tomography: A Phantom Study". In: *Annual Meeting of Radiological Society of North America (RSNA) 2016*. Chicago, USA, Nov. 2016. URL: <http://archive.rsna.org/2016/16007279.html>.
  - [50] C. Steidling, D. Kolditz, V. Ruth, and W. A. Kalender. "Framework for Objective and Fully Automated Image Quality Control of Dedicated Breast CT Systems". In: *Annual Meeting of Radiological Society of North America (RSNA) 2016*. Chicago, USA, Nov. 2016. URL: <http://archive.rsna.org/2016/16044266.html>.
  - [51] Z. Jiang, M. Beister, C. Steidling, D. Kolditz, and W. A. Kalender. "Fast Implementation of the Katsevich Reconstruction Algorithm for Dedicated Breast CT". In: *Annual Meeting of Radiological Society of North America (RSNA) 2015*. Chicago, USA, Nov. 2015. URL: <http://archive.rsna.org/2015/15018503.html>.
  - [52] W. A. Kalender. "Breast CT. Breast Imaging Modalities: Beyond the Conventional". In: *European Congress of Radiology (ECR) 2015*. Vienna, Austria, Mar. 2015.

- 
- [53] W. A. Kalender, D. Kolditz, M. Hupfer, A.-C. Rössler, R. Schulz-Wendtland, and P. Fasching. "Dedicated high-resolution breast CT allows imaging micro-calcifications down to 130  $\mu\text{m}$  at screening mammography dose levels". In: *Annual Meeting of Radiological Society of North America (RSNA) 2015*. Chicago, USA, Nov. 2015. URL: <http://archive.rsna.org/2015/15016704.html>.
  - [54] J. D. Kuttig, C. Steiding, D. Kolditz, and W. A. Kalender. "Detective Quantum Efficiency Investigation Demonstrates High Dose Saving Potential for Breast CT Using a Cadmium Telluride Detector". In: *Annual Meeting of Radiological Society of North America (RSNA) 2014*. Chicago, USA, Nov. 2014. URL: <http://rsna2014.rsna.org/program/details/?emID=14017066>.
  - [55] C. Steiding, D. Kolditz, F. Althoff, and W. A. Kalender. "Fully Automated Geometric Calibration of a Tiled Directly-converting Single X-ray Photon Counting Detector Array for CT". In: *Annual Meeting of Radiological Society of North America (RSNA) 2014*. Chicago, USA, Nov. 2014. URL: <http://rsna2014.rsna.org/program/details/?emID=14013411>.
  - [56] C. Steiding, D. Kolditz, A.-C. Rössler, and W. A. Kalender. "Quantitative assessment of the spatial dependence of non-stationary high-contrast spatial resolution, low-contrast detectability, and noise behaviour in 3D imaging of the breast". In: *European Congress of Radiology (ECR) 2014*. Vienna, Austria, Mar. 2014. URL: [https://www.myesr.org/html/img/pool/ECR\\_2014\\_FinalProgramme\\_OnlineVersion.pdf#page=347](https://www.myesr.org/html/img/pool/ECR_2014_FinalProgramme_OnlineVersion.pdf#page=347).
  - [57] S. V. Vollmar, D. Kolditz, M. Hupfer, and W. A. Kalender. "Dose to Organs and Tissues from Scattered Radiation in Breast CT: Impact on Effective Dose". In: *Annual Meeting of Radiological Society of North America (RSNA) 2014*. Chicago, USA, Nov. 2014. URL: <http://rsna2014.rsna.org/program/details/?emID=14003964>.
  - [58] R. Hendrych, M. Beister, and W. A. Kalender. "Design and Evaluation of an Interactive MPR Viewer for Real-time Filtering of Large High-resolution Breast CT Data". In: *Annual Meeting of Radiological Society of North America (RSNA) 2013*. Chicago, USA, Nov. 2013. URL: <http://rsna2013.rsna.org/pdf/PDFFiles/13027387.pdf>.
  - [59] W. A. Kalender. "Concepts for High-Resolution Low-Dose CT of the Breast." In: *Physikalisch-Medizinische Sozietät Erlangen2013* (2013).
  - [60] W. A. Kalender, D. Kolditz, A.-C. Rössler, C. Steiding, E. Wenkel, and R. Schultz-Wendtland. "Dedicated High-resolution Breast CT Can Outperform Digital Mammography and Breast Tomosynthesis at Equivalent Dose Levels". In: *Annual Meeting of Radiological Society of North America (RSNA) 2013*. Chicago, USA, Dec. 2013. URL: [http://rsna2013.rsna.org/pdf/index.cfm?em\\_id=13021617](http://rsna2013.rsna.org/pdf/index.cfm?em_id=13021617).
  - [61] F. Lück, D. Kolditz, M. Hupfer, and W. A. Kalender. "Experimental Validation of Shaped Filter Design with Variable Source-to-Filter Distance for Breast CT". In: *Annual Meeting of Radiological Society of North America (RSNA) 2013*. Chicago, USA, Dec. 2013. URL: [http://rsna2013.rsna.org/pdf/index.cfm?em\\_id=13019559](http://rsna2013.rsna.org/pdf/index.cfm?em_id=13019559).

- 
- [62] A.-C. Rössler, C. Steiding, D. Kolditz, E. Wenkel, R. Schultz-Wendtland, and W. A. Kalender. "Objective Evaluation of Low-contrast Detectability and High-contrast Resolution for Different Breast Imaging Modalities by Means of Breast Simulating Phantoms with Arbitrary Positionable Inserts". In: *Annual Meeting of Radiological Society of North America (RSNA) 2013*. Chicago, USA, Dec. 2013. URL: [http://rsna2013.rsna.org/pdf/index.cfm?em\\_id=13044232](http://rsna2013.rsna.org/pdf/index.cfm?em_id=13044232).
  - [63] W. A. Kalender. "Breast CT - coming soon." In: Barcelona, Spain, Oct. 2012.
  - [64] W. A. Kalender. "Concepts for High-Resolution Low-Dose CT of the Breast". In: *Annual Meeting of Radiological Society of North America (RSNA) 2012*. Chicago, USA, Nov. 2012.
  - [65] W. A. Kalender. "CT of the Breast: a real innovation?" In: *6th Int. Congress on MRM, 27 - 29 September 2012, Jena, Germany* (2012).
  - [66] W. A. Kalender. "Verbesserte Brustkrebskennung und -diagnostik mit CT." In: *Wissenschaftstag der Metropolregion Nürnberg, 20 July 2012, Erlangen, Germany* (2012).
  - [67] W. A. Kalender. "Übersichtsvortrag: Aktuelle Trends in der Computertomographie." In: *43. Jahrestagung der Deutschen Gesellschaft für Medizinische Physik, 26 – 29 September 2012, Jena, Germany* (2012).
  - [68] W. Kalender. "CT-Technik - State of the art and future perspective." In: *7. Internationales Symposium, 11 - 14 January 2012, Garmisch-Partenkirchen, Germany* (2012).
  - [69] W. Kalender. "Future prospects for CT - How far can CT technology be developed?" In: *BIR Sylvanus Thompson Memorial Lecture, April 25, 2012, London, UK* (2012).
  - [70] W. Kalender. "Low-dose high-resolution CT of the breast". In: *14th Annual International Symposium on MDCT, 17 - 20 June 2012, San Francisco, USA*. 2012.
  - [71] W. Kalender. "Spiral-CT of the breast: technique and diagnostic options." In: *Universitätsspital Bern, January 28 2012, Bern, Switzerland* (2012).
  - [72] J. Wilhelmy, J. Vaupel, and W. A. Kalender. "CT Raw Image Data Compression Using Wavelet Transformation on FPGAs for High Speed Data Transfer." In: *Annual Meeting of Radiological Society of North America (RSNA) 2012*. Chicago, USA, Nov. 2012.
  - [73] M. Beister, R. Hendrych, D. Kolditz, and W. A. Kalender. "Dose Efficient Model-based Iterative Reconstruction for a Dedicated Female Breast CT Scanner". In: *Annual Meeting of Radiological Society of North America (RSNA) 2011*. Chicago, USA, Nov. 2011. URL: [http://rsna2011.rsna.org/search/event\\_display.cfm?am\\_id=2&em\\_id=11005205&printmode=Y&autoprint=N](http://rsna2011.rsna.org/search/event_display.cfm?am_id=2&em_id=11005205&printmode=Y&autoprint=N).
  - [74] W. A. Kalender. "3D-Hochauflösungs-CT. Neue Entwicklungen für die Brustkrebsdiagnostik". In: *FAPS Fachseminar 2011, Erlangen, Germany* (2011).
  - [75] W. A. Kalender. "Verbesserte Brustkrebsfrüherkennung mit CT: Ein neues Gerätikonzept mit hoher Auflösung und sehr niedriger Dosis." In: *Medica 2011, Düsseldorf, Germany* (2011).
  - [76] W. Kalender. "Concepts for High-Resolution Low-Dose CT of the Breast." In: *Annual Meeting of Radiological Society of North America (RSNA) 2011*. Chicago, USA, Nov. 2011.

- 
- [77] D. Kolditz, M. Beister, and W. A. Kalender. "Volume-of-Interest Imaging for High Image Quality at Reduced Dose in Dedicated Female Breast CT". In: *Annual Meeting of Radiological Society of North America (RSNA) 2011*. Chicago, USA, Nov. 2011. URL: [http://rsna2011.rsna.org/search/event\\_display.cfm?am\\_id=2&em\\_id=11008972&printmode=Y&autoprint=N](http://rsna2011.rsna.org/search/event_display.cfm?am_id=2&em_id=11008972&printmode=Y&autoprint=N).
  - [78] F. Lück, M. Weigel, D. Kolditz, S. V. Vollmar, M. Hupfer, and W. A. Kalender. "Effect of Shaped Filters Designed for Breast CT on Dose and Image Quality". In: *Annual Meeting of Radiological Society of North America (RSNA) 2011*. Chicago, USA, Nov. 2011. URL: [http://rsna2011.rsna.org/search/event\\_display.cfm?am\\_id=2&em\\_id=11010918&printmode=Y&autoprint=N](http://rsna2011.rsna.org/search/event_display.cfm?am_id=2&em_id=11010918&printmode=Y&autoprint=N).
  - [79] W. A. Kalender. "Latest development in Breast CT. Symposium Mammographicum Conference 2010." In: *The British Institute of Technology (2010)* (2010). URL: <http://www.birpublications.org/doi/pdf/10.1259/conf-symp.2010>.